Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

SAFETY DATA SHEET



ALPOLAN DUOSCAN 5483-05 - All variants

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name

: ALPOLAN DUOSCAN 5483-05 - All variants

1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use: Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091. e-mail address of person : Prod-safe@teknos.com responsible for this SDS

National contact

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Carc. 2, H351 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word Hazard statements

- : Danger
- : H225 Highly flammable liquid and vapour.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H336 May cause drowsiness or dizziness.
 - H351 Suspected of causing cancer.
 - H361d Suspected of damaging the unborn child.
 - H373 May cause damage to organs through prolonged or repeated exposure.

SECTION 2: Hazards identification

Precautionary statements		
Prevention	:	 P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour.
Response	:	P314 - Get medical advice/attention if you feel unwell.
Storage	:	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	;	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Contains: n-Butyl acetate; Xylene; Methylisobutylketone and Toluene
Supplemental label elements	:	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	•	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hezerde which de		Nanakaawa

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - <20	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
Ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Methylisobutylketone	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≤10	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
Date of issue/Date of revision	: 08/05/2024 Date	e of previous is	sue : No previous va	lidation Version : 1	2/4

SECTION 3: Com	position/informat	ion on	ingredients		
			EUH066		
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	-	[1] [2]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
Propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1]
EO bis(benztriazolyl) phenylpropionat	REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	<1	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of

equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SECTION 4: First aid measures

Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact	: Adverse symptoms may include the following:
,	pain or irritation watering redness
nhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the	: Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion
substance or mixture	hazard. In a fire or if heated, a pressure increase will occur and the container may
	burst, with the risk of a subsequent explosion.

SECTION 5: Firefighting measures

Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains

precautions and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

SECTION 7: Handling and storage

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Seveso Directive - Reporting thresholds

Danger criteria		
Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

7.3 Specific end use(s)

Recommendations

: Not available.

Industrial sector specific solutions

: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl acetate (all isomers except tert-butyl acetate)] CEIL: 480 mg/m ³ 15 minutes. CEIL: 100 ppm 15 minutes. TWA: 241 mg/m ³ 8 hours.
Xylene	TWA: 50 ppm 8 hours. Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes (all isomers)] PEAK: 442 mg/m ³ , 4 times per shift, 15 minutes. TWA: 50 ppm 8 hours. PEAK: 400 mm 4 times per shift, 15 minutes.
Ethyl acetate	PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 221 mg/m ³ 8 hours. Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 200 ppm 8 hours.
Date of issue/Date of revision : 08/05/20	24 Date of previous issue : No previous validation Version : 1 6/49
ALPOLAN DUOSCAN 5483-05 - All variants	S Label No :74117

	TWA: 734 mg/m ³ 8 hours.
	PEAK: 1468 mg/m ³ , 4 times per shift, 15 minutes.
Nethylisobutylketone	PEAK: 400 ppm, 4 times per shift, 15 minutes. Regulation on Limit Values - MAC (Austria, 4/2021). Absorbe
	through skin.
	TWA: 20 ppm 8 hours.
	TWA: 83 mg/m ³ 8 hours.
	PEAK: 50 ppm, 4 times per shift, 15 minutes. PEAK: 208 mg/m ³ , 4 times per shift, 15 minutes.
oluene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorb
	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 190 mg/m ³ 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes. PEAK: 380 mg/m³, 4 times per shift, 15 minutes.
thylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorb
5	through skin.
	TWA: 100 ppm 8 hours.
	TWA: 440 mg/m ³ 8 hours.
	CEIL: 200 ppm, 8 times per shift, 5 minutes. CEIL: 880 mg/m³, 8 times per shift, 5 minutes.
Propan-2-ol	Regulation on Limit Values - MAC (Austria, 4/2021).
	TWA: 200 ppm 8 hours.
	TWA: 500 mg/m ³ 8 hours.
	PEAK: 800 ppm, 4 times per shift, 15 minutes.
	PEAK: 2000 mg/m ³ , 4 times per shift, 15 minutes.
-Butyl acetate	Limit values (Belgium, 5/2021). [butyl acetate, all isomers]
	STEL: 712 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes.
	TWA: 238 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
(ylene	Limit values (Belgium, 5/2021). [Xylene] Absorbed through
	skin.
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
thyl acetate	Limit values (Belgium, 5/2021).
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours. STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
1ethylisobutylketone	Limit values (Belgium, 5/2021).
, ,	TWA: 20 ppm 8 hours.
	TWA: 83 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
oluene	STEL: 208 mg/m ³ 15 minutes. Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 77 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
thulbenzene	STEL: 384 mg/m ³ 15 minutes.
thylbenzene	Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 20 ppm 8 hours.
	TWA: 87 mg/m ³ 8 hours.
	STEL: 125 ppm 15 minutes.
	STEL: 551 mg/m ³ 15 minutes.
Propan-2-ol	Limit values (Belgium, 5/2021).
	TWA: 200 ppm 8 hours. TWA: 500 mg/m³ 8 hours.
	STEL: 400 ppm 15 minutes.
	STEL: 1000 mg/m ³ 15 minutes.

n-Butyl acetate	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 241 mg/m ³ 8 hours.
	Limit value 15 min: 723 mg/m ³ 15 minutes.
	Limit value 15 min: 150 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
Xylene	Ministry of Labour and Social Policy and the Ministry of
Xylene	
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene
	(mixture of isomers), pure] Absorbed through skin.
	Limit value 8 hours: 221 mg/m³ 8 hours.
	Limit value 15 min: 442 mg/m³ 15 minutes.
	Limit value 15 min: 100 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
Ethyl acetate	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 734 mg/m ³ 8 hours.
	Limit value 15 min: 400 ppm 15 minutes.
	Limit value 15 min: 1468 mg/m ³ 15 minutes.
	Limit value 8 hours: 200 ppm 8 hours.
Methylisobutylketone	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 50 mg/m ³ 8 hours.
	Limit value 15 min: 200 mg/m ³ 15 minutes.
Toluene	Ministry of Labour and Social Policy and the Ministry of
Toldene	
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
	through skin.
	Limit value 15 min: 384 mg/m ³ 15 minutes.
	Limit value 8 hours: 192 mg/m ³ 8 hours.
	Limit value 15 min: 100 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
	through skin.
	-
	Limit value 8 hours: 435 mg/m ³ 8 hours.
	Limit value 15 min: 545 mg/m³ 15 minutes.
Propan-2-ol	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 980 mg/m ³ 8 hours.
	Limit value 15 min: 1225 mg/m ³ 15 minutes.
n Rutul acotato	Ministry of Economy, Labour and Entrepreneurship ELV/
n-Butyl acetate	
	STELV (Croatia, 1/2021).
	STELV: 723 mg/m ³ 15 minutes.
	STELV: 150 ppm 15 minutes.
	ELV: 241 mg/m ³ 8 hours.
	ELV: 50 ppm 8 hours.
Xylene	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed
	through skin.
	STELV: 442 mg/m ³ 15 minutes.
	STELV: 100 ppm 15 minutes.
	ELV: 221 mg/m ³ 8 hours.
	ELV: 50 ppm 8 hours.
Ethyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021).
	STELV: 400 ppm 15 minutes.
	ELV: 200 ppm 8 hours.
	STELV: 1468 mg/m ³ 15 minutes.
	ELV: 734 mg/m ³ 8 hours.
Methylisobutylketone	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021).
	STELV: 208 mg/m ³ 15 minutes.
	STELV: 50 ppm 15 minutes.
	ELV: 83 mg/m ³ 8 hours.
	ELV: 20 ppm 8 hours.

Date of issue/Date of revision : 08/05/2024 Date of previous issue ALPOLAN DUOSCAN 5483-05 - All variants

Toluene	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 384 mg/m ³ 15 minutes. STELV: 100 ppm 15 minutes.
Ethylbenzene	ELV: 192 mg/m ³ 8 hours. ELV: 50 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 884 mg/m ³ 15 minutes. STELV: 200 ppm 15 minutes. ELV: 442 mg/m ³ 8 hours.
Propan-2-ol	ELV: 100 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). STELV: 1250 mg/m ³ 15 minutes. STELV: 500 ppm 15 minutes. ELV: 999 mg/m ³ 8 hours. ELV: 400 ppm 8 hours.
n-Butyl acetate	Department of labour inspection (Cyprus, 7/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m ³ 8 hours.
Xylene	Department of labour inspection (Cyprus, 7/2021). [Xylene, mixed isomers] Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 442 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours.
Ethyl acetate	Department of labour inspection (Cyprus, 7/2021). STEL: 400 ppm 15 minutes. STEL: 1468 mg/m ³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m ³ 8 hours.
Methylisobutylketone	Department of labour inspection (Cyprus, 7/2021). STEL: 50 ppm 15 minutes. STEL: 208 mg/m ³ 15 minutes. TWA: 20 ppm 8 hours. TWA: 83 mg/m ³ 8 hours.
Toluene	Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 384 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours.
Ethylbenzene	TWA: 192 mg/m ³ 8 hours. Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 884 mg/m ³ 15 minutes. TWA: 100 ppm 8 hours. TWA: 442 mg/m ³ 8 hours. STEL: 200 ppm 15 minutes.
n-Butyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). TWA: 241 mg/m ³ 8 hours. STEL: 723 mg/m ³ 15 minutes. STEL: 149.661 ppm 15 minutes. TWA: 49.887 ppm 8 hours.
Xylene	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [xylene, technical mixture of isomers and all isomers] Absorbed through skin. TWA: 200 mg/m ³ 8 hours. TWA: 45.4 ppm 8 hours. STEL: 400 mg/m ³ 15 minutes. STEL: 90.8 ppm 15 minutes.
Date of issue/Date of revision	: 08/05/2024 Date of previous issue : No previous validation Version : 1 9/49

Ethyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022).
	TWA: 700 mg/m ³ 8 hours.
	TWA: 191.1 ppm 8 hours.
	STEL: 900 mg/m ³ 15 minutes.
	STEL: 245.7 ppm 15 minutes.
Methylisobutylketone	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022). Absorbed through skin.
	TWA: 80 mg/m ³ 8 hours.
	TWA: 19.2 ppm 8 hours. STEL: 200 mg/m ³ 15 minutes.
	STEL: 48 ppm 15 minutes.
Toluene	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022). Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50.112 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100.224 ppm 15 minutes.
Ethylbenzene	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022). Absorbed through skin.
	TWA: 200 mg/m ³ 8 hours.
	TWA: 45.4 ppm 8 hours.
	STEL: 500 mg/m ³ 15 minutes. STEL: 113.5 ppm 15 minutes.
Propan-2-ol	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022). Absorbed through skin.
	TWA: 500 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	STEL: 1000 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
n-Butyl acetate	Working Environment Authority (Denmark, 6/2022). [Butyl
,	acetate, all isomers]
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
Xylene	Working Environment Authority (Denmark, 6/2022). [Xylenes,
	all isomers] Absorbed through skin.
	TWA: 25 ppm 8 hours.
	TWA: 109 mg/m³ 8 hours. STEL: 442 mg/m³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Ethyl acetate	Working Environment Authority (Denmark, 6/2022).
	TWA: 150 ppm 8 hours.
	TWA: 540 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
Methylisobutylketone	Working Environment Authority (Denmark, 6/2022). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
	TWA: 83 mg/m ³ 8 hours.
	STEL: 208 mg/m ³ 15 minutes.
Toluene	STEL: 50 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Absorbed
Toldelle	through skin.
	TWA: 25 ppm 8 hours.
	TWA: 23 ppm o hours. TWA: 94 mg/m ³ 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Ethylbenzene	Working Environment Authority (Denmark, 6/2022). Absorbed
	through skin. Carcinogen.
	TWA: 50 ppm 8 hours.
	TWA: 217 mg/m ³ 8 hours.
	STEL: 434 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Date of issue/Date of revision : 08	/05/2024 Date of previous issue : No previous validation Version : 1 10/49

SECTION 8: Exposure controls/personal protection Working Environment Authority (Denmark, 6/2022). Absorbed Propan-2-ol through skin. TWA: 200 ppm 8 hours. TWA: 490 mg/m³ 8 hours. STEL: 980 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia, n-Butyl acetate 12/2022). STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. **Xylene** Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). [Xylenes] Absorbed through skin. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. STEL: 450 mg/m³ 15 minutes. TWA: 200 mg/m³ 8 hours. Ethyl acetate Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 500 mg/m³ 8 hours. TWA: 150 ppm 8 hours. STEL: 1100 mg/m³ 15 minutes. STEL: 300 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia, Methylisobutylketone 12/2022). TWA: 83 mg/m³ 8 hours. TWA: 20 ppm 8 hours. STEL: 208 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. Toluene Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia,

Ethylbenzene

Propan-2-ol

n-Butyl acetate

Xylene

Ethyl acetate

Date of issue/Date of revision

: 08/05/2024 Date of previous

Date of previous issue

exposure limit values TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes.

: No previous validation

12/2022). Absorbed through skin. Skin sensitiser.

EU OEL (Europe, 1/2022). Notes: list of indicative

EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational

EU OEL (Europe, 1/2022). Notes: list of indicative

Occupational exposure limits, Regulation No. 293 (Estonia,

TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes.

TWA: 350 mg/m³ 8 hours. TWA: 150 ppm 8 hours. STEL: 600 mg/m³ 15 minutes. STEL: 250 ppm 15 minutes.

STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

occupational exposure limit values

occupational exposure limit values

STEL: 400 ppm 15 minutes.

12/2022).

Version :1 11/49 Label No :74117

ALPOLAN DUOSCAN 5483-05 - All variants

	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
/lethylisobutylketone	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	TWA: 20 ppm 8 hours.
	TWA: 83 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 208 mg/m ³ 15 minutes.
oluene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
	of indicative occupational exposure limit values
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes.
	STEL: 304 mg/m 15 minutes.
thylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
	of indicative occupational exposure limit values
	TWA: 100 ppm 8 hours.
	TWA: 442 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
-Butyl acetate	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 150 ppm 8 hours.
	TWA: 720 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 960 mg/m ³ 15 minutes.
ylene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). [Xylenes] Absorbed through skin.
	STEL: 440 mg/m ³ 15 minutes.
	TWA: 220 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
thyl acetate	Institute of Occupational Health, Ministry of Social Affairs
-	(Finland, 10/2021).
	TWA: 200 ppm 8 hours.
	TWA: 730 mg/m ³ 8 hours.
	STEL: 400 ppm 15 minutes.
	STEL: 1470 mg/m ³ 15 minutes.
1ethylisobutylketone	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 20 ppm 8 hours.
	TWA: 80 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
- h	STEL: 210 mg/m ³ 15 minutes.
oluene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin. Ototoxicant.
	TWA: 25 ppm 8 hours.
	TWA: 81 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes. STEL: 380 mg/m³ 15 minutes.
thylbenzene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 880 mg/m ³ 15 minutes.
Propan-2-ol	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 200 ppm 8 hours.
	TWA: 500 mg/m ³ 8 hours.
	STEL: 250 ppm 15 minutes.
	STEL: 620 mg/m ³ 15 minutes.
	-

	- • •
n-Butyl acetate	Ministry of Labor (France, 10/2022). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
Xylene	Ministry of Labor (France, 10/2022). [xylenes, mixed isomers,
	pure] Absorbed through skin. Notes: Binding regulatory limit
	values (article R. 4412-149 of the Labor Code)
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Ethyl acetate	Ministry of Labor (France, 10/2022). Notes: Binding regulatory
	limit values (article R. 4412-149 of the Labor Code)
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
Methylisobutylketone	Ministry of Labor (France, 10/2022). Notes: Binding regulatory
	limit values (article R. 4412-149 of the Labor Code)
	TWA: 20 ppm 8 hours.
	TWA: 20 ppm 8 hours.
	STEL: 208 mg/m ³ 15 minutes.
Toluene	STEL: 50 ppm 15 minutes.
Toluelle	Ministry of Labor (France, 10/2022). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	TWA: 20 ppm 8 hours.
	TWA: 76.8 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
Ethylbenzene	Ministry of Labor (France, 10/2022). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	TWA: 20 ppm 8 hours.
	TWA: 88.4 mg/m ³ 8 hours.
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Propan-2-ol	Ministry of Labor (France, 10/2022). Notes: Permissible limit
	values (circulars)
	STEL: 400 ppm 15 minutes.
	STEL: 980 mg/m ³ 15 minutes.
n-Butyl acetate	DFG MAC-values list (Germany, 7/2022).
In Batyr doetate	TWA: 100 ppm 8 hours.
	PEAK: 200 ppm, 4 times per shift, 15 minutes.
	TWA: 480 mg/m ³ 8 hours.
	PEAK: 960 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022).
	TWA: 300 mg/m ³ 8 hours.
	TWA: 62 ppm 8 hours.
	PEAK: 600 mg/m ³ 15 minutes.
Malaan	PEAK: 124 ppm 15 minutes.
Xylene	TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through
	skin.
	TWA: 220 mg/m ³ 8 hours.
	PEAK: 440 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). [Xylene (all isomers)]
	Absorbed through skin.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 220 mg/m ³ 8 hours.
Date of issue/Date of revision	: 08/05/2024 Date of previous issue : No previous validation Version : 1 13/49

SECTION 8: Exposur	e controls/personal protection
	PEAK: 440 mg/m ³ , 4 times per shift, 15 minutes.
Ethyl acetate	TRGS 900 OEL (Germany, 6/2022).
	TWA: 730 mg/m ³ 8 hours.
	PEAK: 1460 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
	PEAK: 400 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022).
	TWA: 200 ppm 8 hours.
	PEAK: 400 ppm, 4 times per shift, 15 minutes.
	TWA: 750 mg/m ³ 8 hours.
Mathyliachutylkatana	PEAK: 1500 mg/m ³ , 4 times per shift, 15 minutes.
Methylisobutylketone	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
	TWA: 83 mg/m ³ 8 hours. PEAK: 166 mg/m ³ 15 minutes.
	TWA: 20 ppm 8 hours.
	PEAK: 40 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin.
	TWA: 20 ppm 8 hours.
	PEAK: 40 ppm, 4 times per shift, 15 minutes.
	TWA: 83 mg/m ³ 8 hours.
	PEAK: 166 mg/m ³ , 4 times per shift, 15 minutes.
Toluene	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
	TWA: 190 mg/m ³ 8 hours.
	PEAK: 380 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 190 mg/m ³ 8 hours.
	PEAK: 380 mg/m ³ , 4 times per shift, 15 minutes.
Ethylbenzene	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
	TWA: 88 mg/m ³ 8 hours.
	PEAK: 176 mg/m ³ 15 minutes.
	TWA: 20 ppm 8 hours.
	PEAK: 40 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin.
	PEAK: 40 ppm, 4 times per shift, 15 minutes.
	PEAK: 176 mg/m ³ , 4 times per shift, 15 minutes.
	TWA: 88 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
Propan-2-ol	TRGS 900 OEL (Germany, 6/2022).
	TWA: 500 mg/m ³ 8 hours.
	PEAK: 1000 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
	PEAK: 400 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022).
	TWA: 200 ppm 8 hours.
	PEAK: 400 ppm, 4 times per shift, 15 minutes.
	TWA: 500 mg/m ³ 8 hours.
	PEAK: 1000 mg/m ³ , 4 times per shift, 15 minutes.
n-Butyl acetate	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
Xylene	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). [Xylenes (all isomers)] Absorbed
	through skin.
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m³ 8 hours.
Date of issue/Date of revision	: 08/05/2024 Date of previous issue : No previous validation Version : 1 14/49
	· · · ·

	STEL: 150 ppm 15 minutes.
	STEL: 650 mg/m ³ 15 minutes.
Ethyl acetate	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes.
Methylisobutylketone	STEL: 400 ppm 15 minutes.
	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 410 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
oluene	STEL: 410 mg/m ³ 15 minutes. Presidential Decree 307/1986: Occupational exposure limit
oldene	values (Greece, 9/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 192 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
thylbenzene	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m ³ 8 hours. STEL: 125 ppm 15 minutes.
	STEL: 545 mg/m ³ 15 minutes.
ropan-2-ol	Presidential Decree 307/1986: Occupational exposure limit
•	values (Greece, 9/2021).
	TWA: 400 ppm 8 hours.
	TWA: 980 mg/m ³ 8 hours.
	STEL: 500 ppm 15 minutes.
	STEL: 1225 mg/m ³ 15 minutes.
-Butyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitise
	Inhalation sensitiser.
	TWA: 241 mg/m ³ 8 hours.
	PEAK: 723 mg/m³ 15 minutes. PEAK: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
ylene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixtu
-	of isomers] Absorbed through skin.
	TWA: 221 mg/m³ 8 hours.
	PEAK: 442 mg/m ³ 15 minutes.
	PEAK: 100 ppm 15 minutes.
thyl acetate	TWA: 50 ppm 8 hours. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitise
	Inhalation sensitiser.
	TWA: 734 mg/m ³ 8 hours.
	PEAK: 1468 mg/m ³ 15 minutes.
	PEAK: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
lethylisobutylketone	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022).
	TWA: 83 mg/m ³ 8 hours.
	PEAK: 208 mg/m ³ 15 minutes. PEAK: 50 ppm 15 minutes.
	TWA: 20 ppm 8 hours.
oluene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 192 mg/m ³ 8 hours.
	PEAK: 384 mg/m ³ 15 minutes.
	PEAK: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
thylbenzene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	through skin. Skin sensitiser. Inhalation sensitiser. TWA: 442 mg/m ³ 8 hours.
	PEAK: 884 mg/m³ 15 minutes.

	PEAK: 200 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
Propan-2-ol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 500 mg/m³ 8 hours. PEAK: 1000 mg/m³ 15 minutes.
	PEAK: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
-Butyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	[butyl acetate, all isomers]
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
(ylene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	[xylene, all isomers] Absorbed through skin.
	STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes.
	TWA: 109 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.
thyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	TWA: 540 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
1ethylisobutylketone	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	Absorbed through skin.
	STEL: 208 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes. TWA: 83 mg/m ³ 8 hours.
	TWA: 03 mg/m 8 hours.
oluene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	Absorbed through skin.
	STEL: 188 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 94 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.
thylbenzene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	Absorbed through skin.
	STEL: 884 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes.
	TWA: 200 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
-Butyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational
	Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 241 mg/m ³ 8 hours.
	OELV-15min: 150 ppm 15 minutes.
	OELV-15min: 723 mg/m ³ 15 minutes.
ylene	NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed
	through skin. Notes: EU derived Occupational Exposure Lim
	Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 221 mg/m ³ 8 hours. OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 442 mg/m ³ 15 minutes.
thyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational
,	Exposure Limit Values
	OELV-8hr: 200 ppm 8 hours.
	OELV-15min: 400 ppm 15 minutes.
	OELV-15min: 1468 mg/m ³ 15 minutes.
	OELV-8hr: 734 mg/m ³ 8 hours.
Methylisobutylketone	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 20 ppm 8 hours.
	OELV-8hr: 83 mg/m ³ 8 hours.

	OELV-15min: 50 ppm 15 minutes.
	OELV-15min: 208 mg/m ³ 15 minutes.
Toluene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 192 mg/m ³ 8 hours.
	OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 384 mg/m ³ 15 minutes.
Ethylbenzene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values
	OELV-8hr: 100 ppm 8 hours.
	OELV-8hr: 442 mg/m ³ 8 hours.
	OELV-15min: 200 ppm 15 minutes.
	OELV-15min: 884 mg/m ³ 15 minutes.
Propan-2-ol	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes:
	Advisory Occupational Exposure Limit Values (OELVs)
	OELV-8hr: 200 ppm 8 hours.
	OELV-15min: 400 ppm 15 minutes.
n-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Xylene	Legislative Decree No. 819/2008. Title IX. Protection from
-	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	[Xylenes, mixed isomers, pure] Absorbed through skin.
	8 hours: 50 ppm 8 hours.
	8 hours: 221 mg/m ³ 8 hours.
	Short Term: 100 ppm 15 minutes.
	Short Term: 442 mg/m ³ 15 minutes.
Ethyl acetate	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Short Term: 400 ppm 15 minutes.
	Short Term: 1468 mg/m ³ 15 minutes.
	8 hours: 200 ppm 8 hours.
Mathy dia abuty dicatana	8 hours: 734 mg/m ³ 8 hours.
Methylisobutylketone	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	8 hours: 20 ppm 8 hours. 8 hours: 83 mg/m³ 8 hours.
	Short Term: 50 ppm 15 minutes.
	Short Term: 208 mg/m ³ 15 minutes.
Toluene	Legislative Decree No. 819/2008. Title IX. Protection from
londene	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Absorbed through skin.
	8 hours: 50 ppm 8 hours.
	8 hours: 192 mg/m ³ 8 hours.
Ethylbenzene	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Absorbed through skin.
	8 hours: 100 ppm 8 hours.
	8 hours: 442 mg/m ³ 8 hours.
	Short Term: 200 ppm 15 minutes.
	Short Term: 884 mg/m ³ 15 minutes.
n-Butyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
,	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
Xylene	Ministers Cabinet Regulations NI.323 - AER (Latvia, 2/2021).
Xylene	[Xylenes] Absorbed through skin.
(ylene	

	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
Ethyl acetate	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	TWA: 200 mg/m ³ 8 hours.
	STEL: 400 ppm 15 minutes.
	STEL: 1468 mg/m ³ 15 minutes. TWA: 54 ppm 8 hours.
Methylisobutylketone	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
activity isobaty inclone	TWA: 83 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 208 mg/m ³ 15 minutes.
oluene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	Absorbed through skin.
	TWA: 50 mg/m ³ 8 hours.
	STEL: 150 mg/m ³ 15 minutes.
	TWA: 14 ppm 8 hours.
thulhanzana	STEL: 40 ppm 15 minutes.
thylbenzene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 442 mg/m 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
Propan-2-ol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	TWA: 350 mg/m ³ 8 hours.
	STEL: 600 mg/m ³ 15 minutes.
n-Butyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
5	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
Kylene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	[xylene, mixed isomers, pure] Absorbed through skin.
	STEL: 442 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
Ethyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 500 mg/m ³ 8 hours.
	TWA: 500 mg/m² 8 hours.
	CEIL: 1100 mg/m ³
	CEIL: 300 ppm
Methylisobutylketone	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	TWA: 83 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
	STEL: 208 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
Foluene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	Absorbed through skin.
	TWA: 192 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
Thulbonzono	STEL: 100 ppm 15 minutes.
Ethylbenzene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 442 mg/m² 8 hours.
	STEL: 884 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
Propan-2-ol	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
·	TWA: 350 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
	STEL: 600 mg/m ³ 15 minutes.
	STEL: 250 ppm 15 minutes.

n-Butyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
Xylene	TWA: 241 mg/m ³ 8 hours. Grand-Duchy Regulation 2016. Chemical agents. Annex I
Aylerie	(Luxembourg, 3/2021). [xylenes, mixed isomers, pure]
	Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
Ethyl acetate	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021).
	STEL: 400 ppm 15 minutes.
	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
Methylisobutylketone	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021).
	TWA: 20 ppm 8 hours. TWA: 83 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 208 mg/m ³ 15 minutes.
Toluene	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). Absorbed through skin.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours.
Ethylbenzene	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 442 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
n-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes. TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
	Absorbed through skin. Notes: list of indicative occupational
	exposure limit values
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
Ethyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative
,	occupational exposure limit values
	STEL: 400 ppm 15 minutes.
	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
Mathylisabutylkatana	TWA: 734 mg/m ³ 8 hours.
Methylisobutylketone	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values
	TWA: 20 ppm 8 hours.
	TWA: 83 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 208 mg/m ³ 15 minutes.
Toluene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
	of indicative occupational exposure limit values
 Data of ionus/Data of revision - 00/05/00	
Date of issue/Date of revision : 08/05/20	D24 Date of previous issue : No previous validation Version : 1 19/49

•	
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
Ethylbenzene	STEL: 100 ppm 15 minutes.
	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis
	of indicative occupational exposure limit values
	TWA: 100 ppm 8 hours. TWA: 442 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
Dutid a state	0
n-Butyl acetate	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2022).
	OEL, 8-h TWA: 241 mg/m ³ 8 hours. STEL,15-min: 723 mg/m ³ 15 minutes.
	STEL,15-min: 150 ppm 15 minutes. OEL, 8-h TWA: 50 ppm 8 hours.
(ylene	Ministry of Social Affairs and Employment, Legal limit values
(yiene	(Netherlands, 12/2022). [xylenes (all isomers)] Absorbed
	through skin.
	OEL, 8-h TWA: 210 mg/m ³ 8 hours.
	STEL, 15-min: 442 mg/m ³ 15 minutes.
	STEL,15-min: 100 ppm 15 minutes. OEL, 8-h TWA: 47.5 ppm 8 hours.
Ethyl acetate	Ministry of Social Affairs and Employment, Legal limit value
	(Netherlands, 12/2022).
	STEL,15-min: 1468 mg/m ³ 15 minutes. OEL, 8-h TWA: 734 mg/m ³ 8 hours.
	STEL, 15-min: 400 ppm 15 minutes.
	OEL, 8-h TWA: 200 ppm 8 hours.
Nethylisobutylketone	Ministry of Social Affairs and Employment, Legal limit value
netryiisobutyiketone	(Netherlands, 12/2022).
	OEL, 8-h TWA: 104 mg/m ³ 8 hours.
	STEL,15-min: 208 mg/m ³ 15 minutes.
	OEL, 8-h TWA: 25 ppm 8 hours.
Foluene	STEL,15-min: 50 ppm 15 minutes. Ministry of Social Affairs and Employment, Legal limit value
loluene	
	(Netherlands, 12/2022).
	OEL, 8-h TWA: 150 mg/m³ 8 hours. STEL,15-min: 384 mg/m³ 15 minutes.
	STEL,15-min: 100 ppm 15 minutes.
Thulbonzono	OEL, 8-h TWA: 39 ppm 8 hours.
Ethylbenzene	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2022). Absorbed through skin.
	OEL, 8-h TWA: 215 mg/m ³ 8 hours.
	STEL,15-min: 430 mg/m ³ 15 minutes.
	STEL,15-min: 97.3 ppm 15 minutes.
	OEL, 8-h TWA: 48.6 ppm 8 hours.
n-Butyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022).
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative
	limit value
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
(ylene	FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers
	Absorbed through skin. Notes: indicative limit value
	TWA: 25 ppm 8 hours.
	TWA: 108 mg/m ³ 8 hours.
Ethyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative
	limit value
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
	FOR-2011-12-06-1358 (Norway, 12/2022).
	STEL: 1468 mg/m ³ 15 minutes.

SECTION 8: Exposure controls/personal protection STEL: 400 ppm 15 minutes. Methylisobutylketone FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 20 ppm 8 hours. TWA: 83 mg/m³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. STEL: 50 ppm 15 minutes. STEL: 208 mg/m³ 15 minutes. Toluene FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 25 ppm 8 hours. TWA: 94 mg/m³ 8 hours. Ethylbenzene FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Carcinogen. Notes: indicative limit value TWA: 5 ppm 8 hours. TWA: 20 mg/m³ 8 hours. Propan-2-ol FOR-2011-12-06-1358 (Norway, 12/2022). TWA: 100 ppm 8 hours. TWA: 245 mg/m³ 8 hours. n-Butyl acetate Regulation of the Minister of Family, Labor and Social Policy

2/2021).

Xylene

TWA: 240 mg/m³ 8 hours. STEL: 720 mg/m³ 15 minutes.

of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland,

of 18 February 2021, regarding the highest permissible

Regulation of the Minister of Family, Labor and Social Policy

concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed through skin. TWA: 100 mg/m³ 8 hours. STEL: 200 mg/m³ 15 minutes. Ethyl acetate Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes. Methylisobutylketone Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 83 mg/m³ 8 hours. STEL: 200 mg/m³ 15 minutes. Toluene Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 100 mg/m³ 8 hours. STEL: 200 mg/m³ 15 minutes. Ethylbenzene Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland,

 Propan-2-ol
 TWA: 200 mg/m³ 8 hours. STEL: 400 mg/m³ 15 minutes.

 Pate of issue/Date of revision
 : 08/05/2024

 Date of previous issue
 : No previous validation

 Version
 : 1

 21/49

 ALPOLAN DUOSCAN 5483-05 - All variants

2/2021). Absorbed through skin.

	of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 900 mg/m ³ 8 hours. STEL: 1200 mg/m ³ 15 minutes.
n-Butyl acetate	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.
Xylene	Portuguese Institute of Quality (Portugal, 11/2014). [Xylene] TWA: 100 ppm 8 hours.
Ethyl acetate	STEL: 150 ppm 15 minutes. Portuguese Institute of Quality (Portugal, 11/2014). TWA: 400 ppm 8 hours.
Methylisobutylketone	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours.
Toluene	STEL: 75 ppm 15 minutes. Portuguese Institute of Quality (Portugal, 11/2014). Absorbe through skin.
Ethylbenzene	TWA: 20 ppm 8 hours. Portuguese Institute of Quality (Portugal, 11/2014).
Propan-2-ol	TWA: 20 ppm 8 hours. Portuguese Institute of Quality (Portugal, 11/2014).
	TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes.
n-Butyl acetate	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021).
	VLA: 241 mg/m ³ 8 hours. VLA: 50 ppm 8 hours. Short term: 723 mg/m ³ 15 minutes. Short term: 150 ppm 15 minutes.
Xylene	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). [Xylene] Absorbed through ski VLA: 221 mg/m ³ 8 hours.
	VLA: 50 ppm 8 hours. Short term: 442 mg/m ³ 15 minutes. Short term: 100 ppm 15 minutes.
Ethyl acetate	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021).
	VLA: 734 mg/m ³ 8 hours. VLA: 200 ppm 8 hours.
	Short term: 1468 mg/m ³ 15 minutes.
	Short term: 400 ppm 15 minutes.
Methylisobutylketone	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021).
	VLA: 83 mg/m ³ 8 hours.
	VLA: 20 ppm 8 hours.
	Short term: 208 mg/m ³ 15 minutes.
Toluene	Short term: 50 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021). Absorbed through skin.
	VLA: 192 mg/m ³ 8 hours.
	VLA: 50 ppm 8 hours.
	Short term: 384 mg/m ³ 15 minutes. Short term: 100 ppm 15 minutes.
Ethylbenzene	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin.
	VLA: 442 mg/m ³ 8 hours.
	VLA: 100 ppm 8 hours. Short term: 884 mg/m ³ 15 minutes.
	Short term: 200 ppm 15 minutes.
Propan-2-ol	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021).
	VLA: 200 mg/m³ 8 hours.

	VLA: 81 ppm 8 hours.
	Short term: 500 mg/m ³ 15 minutes.
	Short term: 203 ppm 15 minutes.
n-Butyl acetate	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
,	[Butyl acetates]
	TWA: 241 mg/m ³ , (Butyl acetates) 8 hours.
	TWA: 50 ppm, (Butyl acetates) 8 hours.
	STEL: 723 mg/m ³ , (Butyl acetates) 15 minutes.
	STEL: 150 ppm, (Butyl acetates) 15 minutes.
(ylene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	[xylene, mixed isomers] Absorbed through skin.
	TWA: 221 mg/m ³ , (xylene, mixed isomers) 8 hours.
	TWA: 50 ppm, (xylene, mixed isomers) 8 hours.
	STEL: 442 mg/m ³ , (xylene, mixed isomers) 15 minutes.
thul apototo	STEL: 100 ppm, (xylene, mixed isomers) 15 minutes.
thyl acetate	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	TWA: 734 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	STEL: 1468 mg/m ³ 15 minutes. STEL: 400 ppm 15 minutes.
lethylisobutylketone	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
letityiisobutyiketone	Absorbed through skin.
	TWA: 83 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
	STEL: 166 mg/m ³ 15 minutes.
	STEL: 40 ppm 15 minutes.
oluene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
thylbenzene	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
•	Absorbed through skin.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 884 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
Propan-2-ol	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	TWA: 500 mg/m³ 8 hours.
	TWA: 200 ppm 8 hours.
	STEL: 1000 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
-Butyl acetate	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021)
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	KTV: 723 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 150 ppm, 4 times per shift, 15 minutes.
(ylene	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021)
	[xylene (mixture of isomers)] Absorbed through skin.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	KTV: 442 mg/m ³ , 4 times per shift, 15 minutes.
thud apartata	KTV: 100 ppm, 4 times per shift, 15 minutes.
thyl acetate	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021).
	TWA: 734 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	KTV: 1468 mg/m ³ , 4 times per shift, 15 minutes.
Aethylisobutylketope	KTV: 400 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to
Methylisobutylketone	exposure to chemical substances at work (Slovenia, 5/2021).

Date of issue/Date of revision

ALPOLAN DUOSCAN 5483-05 - All variants

: 08/05/2024 Date of previous issue

p	ontrols/personal protection
	Absorbed through skin.
	TWA: 83 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
	KTV: 208 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 50 ppm, 4 times per shift, 15 minutes.
Toluene	Regulation on protection of workers from the risks related t
	exposure to chemical substances at work (Slovenia, 5/2021)
	Absorbed through skin.
	TWA: 192 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	KTV: 384 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 100 ppm, 4 times per shift, 15 minutes.
Ethylbenzene	Regulation on protection of workers from the risks related t
	exposure to chemical substances at work (Slovenia, 5/2021)
	Absorbed through skin.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	KTV: 884 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 200 ppm, 4 times per shift, 15 minutes.
Propan-2-ol	Regulation on protection of workers from the risks related t
	exposure to chemical substances at work (Slovenia, 5/2021)
	TWA: 500 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	KTV: 1000 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 400 ppm, 4 times per shift, 15 minutes.
-Butyl acetate	National institute of occupational safety and health (Spain,
	4/2022).
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
(ylene	National institute of occupational safety and health (Spain,
	4/2022). [Xylene, mixture of isomers] Absorbed through ski
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
thyl acetate	National institute of occupational safety and health (Spain,
	4/2022).
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	STEL: 400 ppm 15 minutes.
lethylisobutylketone	National institute of occupational safety and health (Spain,
	4/2022).
	TWA: 20 ppm 8 hours.
	TWA: 83 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 208 mg/m ³ 15 minutes.
oluene	National institute of occupational safety and health (Spain,
	4/2022). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 192 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
thylbenzene	National institute of occupational safety and health (Spain,
	4/2022). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
Propan-2-ol	National institute of occupational safety and health (Spain,
	4/2022).
	TWA: 200 ppm 8 hours.

	TWA: 500 mg/m ³ 8 hours. STEL: 400 ppm 15 minutes. STEL: 1000 mg/m ³ 15 minutes.
n-Butyl acetate	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). [butyl acetate]
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
(ylene	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). [xylene] Absorbed through skin.
	TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
thyl acetate	Work environment authority Regulation 2018:1 (Sweden,
5	9/2021).
	TWA: 150 ppm 8 hours.
	TWA: 550 mg/m ³ 8 hours.
	STEL: 300 ppm 15 minutes.
	STEL: 1100 mg/m ³ 15 minutes.
lethylisobutylketone	Work environment authority Regulation 2018:1 (Sweden,
	9/2021).
	TWA: 20 ppm 8 hours.
	TWA: 83 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
T . I	STEL: 200 mg/m ³ 15 minutes.
oluene	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin. Ototoxicant.
	TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.
thylbenzene	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
Propan-2-ol	Work environment authority Regulation 2018:1 (Sweden,
	9/2021).
	TWA: 150 ppm 8 hours.
	TWA: 350 mg/m ³ 8 hours.
	STEL: 250 ppm 15 minutes.
	STEL: 600 mg/m³ 15 minutes.
-Butyl acetate	SUVA (Switzerland, 1/2023).
	TWA: 50 ppm 8 hours.
	TWA: 240 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes. STEL: 720 mg/m³ 15 minutes.
ylene	STEL. 720 fig/in 13 finitules. SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed
yiene	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 440 mg/m ³ 15 minutes.
thyl acetate	SUVA (Switzerland, 1/2023).
	STEL: 400 ppm 15 minutes.
	STEL: 1460 mg/m ³ 15 minutes.
	TWA: 200 ppm 8 hours.
	TWA: 730 mg/m ³ 8 hours.
Methylisobutylketone	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 82 mg/m ³ 8 hours.

	STEL: 40 ppm 15 minutes.
	STEL: 164 mg/m ³ 15 minutes.
Toluene	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 190 mg/m ³ 8 hours.
Ethylbenzene	STEL: 200 ppm 15 minutes. STEL: 760 mg/m³ 15 minutes.
	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 220 mg/m ³ 15 minutes.
Propan-2-ol	SUVA (Switzerland, 1/2023).
	TWA: 200 ppm 8 hours.
	TWA: 500 mg/m ³ 8 hours. STEL: 400 ppm 15 minutes.
	STEL: 1000 mg/m ³ 15 minutes.
n-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 966 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
Kylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,n
	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes.
Ethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 734 mg/m ³ 8 hours.
Methylisobutylketone	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 416 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes. TWA: 208 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 384 mg/m ³ 15 minutes.
	TWA: 191 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m ³ 8 hours.
Propan-2-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
•	STEL: 1250 mg/m ³ 15 minutes.
	STEL: 500 ppm 15 minutes.
	TWA: 999 mg/m³ 8 hours.
	TWA: 400 ppm 8 hours.
1-Methoxy 2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 560 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
2-Methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 548 mg/m ³ 15 minutes.

Methyl methacrylate	TWA: 50 ppm 8 hours. TWA: 274 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 416 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 208 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices
Xylene	VGU BEI (Austria, 9/2020) [xylenes] BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one year BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.
Toluene	 VGU BEI (Austria, 9/2020) BEI Fitness: 250 µg/l, toluene [in blood]. Sampling time: one year BEI Fitness: 0.8 mg/l, o-cresol [in urine]. Sampling time: one year BEI Fitness: 130000 /µl, platelets (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 150000 /µl, platelets [in blood]. Sampling time: one year. BEI Fitness: 3700 to 13000 /µl, leukocytes (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 3700 to 13000 /µl, leukocytes (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 4000 to 13000 /µl, leukocytes [in blood]. Sampling time: one year.
	 BEI Fitness - men: 3.8 million/µl, erythrocytes [in blood]. Samplin time: one year. BEI Fitness - women: 3.2 million/µl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time one year. BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling time: one year.
No exposure indices known.	
Toluene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) BLV: 1.6 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: after the end of the exposure or the end of the work shift.
Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) Notes: significant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: after the end of the exposure or the end of the work shift.
Xylene	 Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.
Methylisobutylketone	Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 3.5 mg/l, 4-methylpentan-2-one [in urine]. Sampling time: no critical.

SECTION 8: Exposure controls/personal protection BEI: 35 nmol/l, 4-methylpentan-2-one [in urine]. Sampling time: not critical. Toluene Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 20 ppm, toluene [in end exhaled air]. Sampling time: during exposure. BEI: 0.83 µmol/l, toluene [in end exhaled air]. Sampling time: during exposure. BEI: 1 mg/l, toluene [in blood]. Sampling time: at the end of the work shift. BEI: 10.85 µmol/l, toluene [in blood]. Sampling time: at the end of the work shift. BEI: 1.05 mmol/mol creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift. BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift. BEI: 1.58 mol/mol creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 2.5 g/g creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift. Ethylbenzene Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during exposure. BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: during exposure. BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week. BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week. Propan-2-ol Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 50 mg/l, acetone [in urine]. Sampling time: at the end of the work shift. BEI: 50 mg/l, acetone [in blood]. Sampling time: at the end of the work shift. BEI: 0.86 µmol/l, acetone [in urine]. Sampling time: at the end of the work shift. BEI: 0.86 µmol/l, acetone [in blood]. Sampling time: at the end of the work shift. No exposure indices known. **Xvlene** Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xylene] Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift. Toluene Government regulation of Czech Republic Limit Values of **Biological Exposure Tests (Czech Republic, 9/2015)** Biological limit values: 1000 µmol/mmol creatinine, hippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1600 mg/g, hippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1.6 µmol/mmol creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift. Biological limit values: 1.5 mg/g creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift.

Date of issue/Date of revision: 08/05/2024ALPOLAN DUOSCAN 5483-05 - All variants

24 Date of previous issue

: No previous validation

Version :1 28/49 Label No :74117

Ethylbenzene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 1100 μmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
Xylene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time: at the end of the work shift.
Toluene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) BEI: 500 nmol/l, toluene [in blood]. Sampling time: the morning after the working day.
Ethylbenzene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) BEI: 5.2 mmol/I, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period.
No exposure indices known.	
Xylene	 DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers)] Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers) [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [Xylene (all isomers)] BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.
Methylisobutylketone	 DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 0.7 mg/l, hexone [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 0.7 mg/l, 4-methylpentan-2-one [in urine]. Sampling time: end of exposure or end of shift.
Toluene	 DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 600 μg/l, toluene [in blood]. Sampling time: immediately after exposure. BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts. BEI: 75 μg/l, toluene [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 600 μg/l, toluene [in whole blood]. Sampling time: immediately after exposure. BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift.
Ethylbenzene	DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228).
Date of issue/Date of revision : 0	8/05/2024 Date of previous issue : No previous validation Version : 1 29/49

SECTION 8: Exposure controls/pe	ersonal protection
	BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.
Propan-2-ol	 DFG BEI-values list (Germany, 7/2022) BEI: 25 mg/l, acetone [in blood]. Sampling time: end of exposure or end of shift. BEI: 25 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 25 mg/l, acetone [in whole blood]. Sampling time: end of exposure or end of shift. BEI: 25 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.
No exposure indices known.	
Xylene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) [xylene] BEI: 1500 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift. BEI: 860 μmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift.
Methylisobutylketone	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 35 μmol/l, methyl-iso-butyl-ketone [in urine]. Sampling time: at the end of the shift. BEI: 3.5 mg/l, methyl-iso-butyl-ketone [in urine]. Sampling time: at the end of the shift.
Toluene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the shift. BEI: 1 μmol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of the shift.
Ethylbenzene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift. BEI: 1110 μmol/mmol creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift.
Propan-2-ol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 430 μmol/l, acetone [in urine]. Sampling time: at the end of the shift. BEI: 25 mg/l, acetone [in urine]. Sampling time: at the end of the shift.
No exposure indices known.	
Xylene	NAOSH (Ireland, 1/2011) [Xylene] BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
Methylisobutylketone	NAOSH (Ireland, 1/2011) BMGV: 1 mg/l, MIBK [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
Toluene	NAOSH (Ireland, 1/2011) BMGV: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases. BMGV: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases. BMGV: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last

	shift of workweek.
Ethylbenzene	NAOSH (Ireland, 1/2011) BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origi of the determinant is in question., ethylbenzene [in endexhaled air] Sampling time: not critical. BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.
Propan-2-ol	NAOSH (Ireland, 1/2011) BMGV: 40 mg/l, acetone [in urine]. Sampling time: end of shift at end of workweek.
No exposure indices known.	
Toluene	Minister Cabinet Regulations No.325 - BEI (Latvia, 7/2018) BEI: 0.05 mg/l, toluene [in blood]. BEI: 1.6 g/g creatinine, hippuric acid [in urine]. Sampling time: er of the shift.
No exposure indices known.	
Xylene	Portuguese Institute of Quality (Portugal, 11/2014) [Xylenes] BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift.
Methylisobutylketone	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 1 mg/l, methylisobutylketone (MIBK) [in urine]. Sampling tin end of shift.
Toluene	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end shift. BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift. BEI: 0.02 mg/l, toluene [in blood]. Sampling time: end of shift at the end of the workweek.
Ethylbenzene	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxyli acid [in urine]. Sampling time: end of shift.
Propan-2-ol	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 40 mg/l, acetone [in urine]. Sampling time: end of shift at th end of the workweek.
ate of issue/Date of revision : 08/05	5/2024 Date of previous issue : No previous validation Version : 1 31/4

Xylene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of shift.
Toluene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 3 mg/l, o-cresol [in urine]. Sampling time: end of shift. OBLV: 2 g/l, hippuric acid [in urine]. Sampling time: end of shift.
Ethylbenzene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 1.5 g/g creatinine, mandelic acid [in urine]. Sampling time: end of the week.
Propan-2-ol	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 50 mg/l, acetone [in urine]. Sampling time: end of shift.
Xylene	Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers] BLV: 781 μmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1334 mg/g creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 10355 μmol/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.6 μmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2000 mg/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.6 μmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of exposure or work shift.
Methylisobutylketone	Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 2.67 μmol/mmol creatinine, hexon [in urine]. Sampling time: at the end of exposure or work shift. BLV: 2.36 mg/g creatinine, hexon [in urine]. Sampling time: at the end of exposure or work shift. BLV: 35.4 μmol/l, hexon [in urine]. Sampling time: at the end of exposure or work shift. BLV: 3.5 mg/l, hexon [in urine]. Sampling time: at the end of exposure or work shift.
Toluene	Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 1010 μmol/mmol creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.08 μmol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/g creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.03 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1.03 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 13399 μmol/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.3 μmol/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 6517 nmol/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2401 mg/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.
Date of issue/Date of revision	BLV: 1.5 mg/l, o-cresol [in urine]. Sampling time: at the end of : 08/05/2024 Date of previous issue : No previous validation Version : 1 32/49

ſ

		• •
		exposure or work shift; long-term exposure: after several work shifts. BLV: 600 μg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift.
	Ethylbenzene	 Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 799 μmol/mmol creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 7.44 μmol/mmol creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1067 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1067 mg/g creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 8.03 mg/g creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 10590 μmol/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 98.6 μmol/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 12 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.
	Xylene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) [xylene (all isomers)] BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift.
	Methylisobutylketone	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 0.7 mg/l, 4-methylpentan-2-one [in urine]. Sampling time: at the end of the work shift.
	Toluene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays. BAT: 600 μ g/l, toluene [in blood]. Sampling time: immediately after exposure. BAT: 75 μ g/l, toluene [in urine]. Sampling time: at the end of the work shift.
	Ethylbenzene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 250 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift.
	Propan-2-ol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 25 mg/l, acetone [in urine]. Sampling time: at the end of the work shift. BAT: 25 mg/l, acetone [in blood]. Sampling time: at the end of the work shift.
D	ate of issue/Date of revision : 08/0	/2024 Date of previous issue : No previous validation Version : 1 33/49

SECTION 8: Exp	osure controls/	personal protection
Xylene		National institute of occupational safety and health (Spain, 4/2022) [Xylenes] VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.
Methylisobutylketone		National institute of occupational safety and health (Spain, 4/2022) VLB: 1 mg/l, methyl isobutyl ketone [in urine]. Sampling time: end of shift.
Toluene		National institute of occupational safety and health (Spain, 4/2022) VLB: 0.05 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek. VLB: 0.6 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift. VLB: 0.08 mg/l, toluene [in urine]. Sampling time: end of shift.
Ethylbenzene		National institute of occupational safety and health (Spain, 4/2022) VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.
Propan-2-ol		National institute of occupational safety and health (Spain, 4/2022) VLB: 40 mg/l, acetone [in urine]. Sampling time: end of workweek.
No exposure indices k	nown.	
Xylene		SUVA (Switzerland, 1/2023) [Xylene, all isomers] BEI: 2 g/l, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours.
Methylisobutylketone		SUVA (Switzerland, 1/2023) BEI: 0.7 mg/l, 4-methylpentan-2-one [in urine]. Sampling time: immediately after exposure or after working hours.
Toluene		 SUVA (Switzerland, 1/2023) BEI: 2 g/g creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 1.26 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 0.5 mg/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 4.62 µmol/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 4.62 µmol/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 6.00 µg/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours. BEI: 6.48 µmol/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours. BEI: 75 µg/l, toluene [in urine]. Sampling time: immediately after exposure or after working hours.
Ethylbenzene		SUVA (Switzerland, 1/2023) BEI: 600 mg/g creatinine, mandelic acid + phenylglyoxylic acid [in urine]. Sampling time: immediately after exposure or after working hours.
Propan-2-ol		SUVA (Switzerland, 1/2023) BEI: 0.4 mmol/l, acetone [in blood]. Sampling time: immediately
Date of issue/Date of revision	n : 08/05/2024	Date of previous issue : No previous validation Version : 1 34/49

	after exposure or after working hours. BEI: 25 mg/l, acetone [in blood]. Sampling time: immediately after exposure or after working hours. BEI: 0.4 mmol/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours. BEI: 25 mg/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.
Xylene	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.
Methylisobutylketone	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 20 μmol/l, 4-methylpentan-2-one [in urine]. Sampling time: post shift.
procedures Europe assess values atmos	nce should be made to monitoring standards, such as the following: ean Standard EN 689 (Workplace atmospheres - Guidance for the sment of exposure by inhalation to chemical agents for comparison with limit and measurement strategy) European Standard EN 14042 (Workplace oheres - Guide for the application and use of procedures for the assessment

of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	35.7 mg/m ³	General population	Local
	DNEL	Short term Inhalation	300 mg/m³	General population	Local
	DNEL	Short term Inhalation	300 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
Xylene	DNEL	Long term Inhalation	65.3 mg/m³	General population	Local
	DNEL	Short term Inhalation	260 mg/m³	General population	Local
	DNEL	Short term Inhalation	260 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m³	Workers	Local

Date of issue/Date of revision ALPOLAN DUOSCAN 5483-05 - All variants

Label No :74117

	DNEL	bersonal prote	12.5 mg/	General	Systemic
	DIVEL	Long term Ora	kg bw/day	population	Oysternic
	DNEL	Long term	65.3 mg/m ³	General	Systemic
	DIVLL	Inhalation	00.0 mg/m	population	Cysterino
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
	DINLL	Long term Derma	bw/day	population	Systemic
		Long torm Dormal			Svatamia
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	221 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Short term	442 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	442 mg/m ³	Workers	Systemic
		Inhalation	Ū		-
Ethyl acetate	DNEL	Long term Oral	4.5 mg/kg	General	Systemic
	5.122	Long tonn oran	bw/day	population	eyetenne
	DNEL	Long term Dermal	37 mg/kg	General	Systemic
	DINLL	Long term Derma			Systemic
			bw/day	population	O. un transita
	DNEL	Long term Dermal	63 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	367 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	367 mg/m ³	General	Systemic
		Inhalation	_	population	
	DNEL	Short term	734 mg/m ³	General	Local
		Inhalation	5	population	
	DNEL	Short term	734 mg/m ³	General	Systemic
	DIVLL	Inhalation	704 mg/m	population	Cystonio
	DNEL		734 mg/m ³	Workers	Local
	DNEL	Long term	734 mg/m	VVOIKEIS	LUCAI
		Inhalation			
	DNEL	Long term	734 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Short term	1468 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Short term	1468 mg/	Workers	Systemic
		Inhalation	m³		
/lethylisobutylketone	DNEL	Long term Oral	4.2 mg/kg	General	Systemic
			bw/day	population	-,
	DNEL	Long term Dermal	4.2 mg/kg	General	Systemic
	DIVLL	Long term Derma	bw/day	population	Cystonio
	DNEL	Long torm Dormal	11.8 mg/	Workers	Systemic
	DNEL	Long term Dermal		vvorkers	Systemic
			kg bw/day		
	DNEL	Long term	14.7 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	14.7 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	83 mg/m ³	Workers	Local
		Inhalation	-		
	DNEL	Long term	83 mg/m³	Workers	Systemic
		Inhalation	<u>-</u>		-,
	DNEL	Short term	155.2 mg/	General	Local
	DIVLL	Inhalation	m ³	population	Local
					Sustamia
	DNEL	Short term	155.2 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Short term	208 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	208 mg/m ³	Workers	Systemic
		Inhalation			
oluene	DNEL	Long term Oral	8.13 mg/	General	Systemic
		-	kg bw/day	population	-
	DNEL	Long term	56.5 mg/m ³	General	Local
		Inhalation	20.0 mg/m	population	
	DNEL	Long term	56.5 mg/m ³	General	Systemic
		Inhalation	55.5 mg/m		Cysternic
			102 mc/3	population Workers	Local
	1 1 1 1 1 1				
	DNEL	Long term Inhalation	192 mg/m ³	VVOIKEIS	LUCAI

ALPOLAN DUOSCAN 5483-05 - All variants

Label No :74117

	DNEL	Long term	192 mg/m ³	Workers	Systemic
		Inhalation	5		,
	DNEL	Long term Dermal	226 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	226 mg/m ³	General population	Local
	DNEL	Short term Inhalation	226 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	384 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	384 mg/m ³	Workers	Systemic
Ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic
ropan-2-ol	DNEL	Long term Oral	26 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	89 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	319 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	500 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	888 mg/kg bw/day	Workers	Systemic

PNECs

No PNECs available

8.2 Exposure controls		
Appropriate engineering controls	-	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measur	es	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection		

SECTION 8: Exposure controls/personal protection

•	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Recommendations : Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	1 - 4 hours (breakthrough time): $4H$ / Silver Shield® gloves.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	Filter type: A
	Filter type (spray application): A P
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	: Liquid.
Colour	: Colourless.
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and	- : · · · · · · · · · · · · · · · · · ·
boiling range	

Ingredient name		°C	°F	Method	
Ethyl acetate		77.1	170.8		
Propan-2-ol		83	181.4		
Flammability	: Not ava	ilable.		,	

Lower and upper explosion limit	: Lower: Upper:				
Flash point	: Closed	cup: -1°C (30.2°F)			
Auto-ignition temperature	:				
Ingredient name		°C	°F	Method	

Ingredient name	°C	°F	Method
n-Butyl acetate	415	779	EU A.15
Ethyl acetate	426.67	800	

Date of issue/Date of revision

: 08/05/2024 Date of previous issue

: No previous validation

Version :1 38/49 Label No :74117

ALPOLAN DUOSCAN 5483-05 - All variants

SECTION 9: Physical and chemical properties

2

Decomposition temperature	1	Not available.
рН	1	Not applicable.
Viscosity	÷	Not available.
Solubility(ies)	1	
Not available.		
Solubility in water	;	Not available.
Partition coefficient: n-octanol/ water	:	Not applicable.

Vapour pressure

	Vapour Pressure at 20°C		V	apour pres	essure at 50°C	
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethyl acetate	81.59163	10.9				
Propan-2-ol	33.00268	4.4				
Relative density	: Not	available.	·			
Density	: 0.9	g/cm³				
Vapour density	: Not	available.				
Explosive properties	: Not	available.				
Oxidising properties	: Not	available.				
Particle characteristics						
Median particle size	: Not	applicable.				

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients	
10.2 Chemical stability	: The product is stable.	
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, well braze, solder, drill, grind or expose containers to heat or sources of ignition.	l,
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials	
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
Methylisobutylketone	LD50 Oral	Rat	2080 mg/kg	-
Toluene	LC50 Inhalation Vapour	Rat	49 g/m ³	4 hours
	LD50 Oral	Rat	636 mg/kg	-

ALPOLAN DUOSCAN 5483-05 - All variants

Label No :74117

SECTION 11: Toxicological information					
Ethylbenzene	LC50 Inhalation Dusts and mists	Rat	29000 mg/l	4 hours	
	LD50 Dermal	Rabbit	15400 mg/kg	-	
Propan-2-ol	LD50 Oral LD50 Dermal	Rat Rabbit	3500 mg/kg 12800 mg/kg	-	
	LD50 Oral	Rat	5000 mg/kg	-	

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Acute toxicity estimates

Route	ATE value
	8378.94 mg/kg 44.62 mg/l

Irritation/Corrosion

Teratogenicity

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Methylisobutylketone	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				uL	
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Pig	-	24 hours 250	-
		B 11 1		uL	
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
		DULT		mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
	Europa Mandamata imitant	Dabbit		mg	
Propan-2-ol	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
		Dabbit		mg	
	Eyes - Severe irritant Skin - Mild irritant	Rabbit	-	100 mg	-
	Skin - Mila Initant	Rabbit	-	500 mg	-
Conclusion/Summary	: Causes skin irritation.				
Sensitisation					
Conclusion/Summary	: May cause an allergic skin	reaction.			
<u>Autagenicity</u>	-				
Conclusion/Summary	: Based on available data, the	ne classification c	riteria are	not met.	

Conclusion/Summary : Based on available data, the classification criteria are not me

SECTION 11: Toxicological information

Conclusion/Summary : Suspected of damaging the unborn child.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-Butyl acetate	Category 3	-	Narcotic effects
Xylene	Category 3	-	Respiratory tract irritation
Ethyl acetate	Category 3	-	Narcotic effects
Methylisobutylketone	Category 3	-	Narcotic effects
Toluene	Category 3	-	Narcotic effects
Propan-2-ol	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Toluene	Category 2	oral, inhalation - oral, inhalation	- - hearing organs

Aspiration hazard

Product/ingredient name	Result
Xylene	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure	:	Not available.
Potential acute health effects		
Eve contact		Causes serio

Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.

• • • • • •		and the second
Symptoms related to the	physical, chemical an	d toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

SECTION 11: Toxicological information

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Delayed and initiate circe	to as well as enrolle enects from short and long-term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
Conclusion/Summary	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging the unborn child.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
-	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethyl acetate	Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
-	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 154000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
	Chronic NOEC 12 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 75.6 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	32 days
Methylisobutylketone	Acute LC50 505000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 78 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	33 days
Toluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - <i>Gammarus</i> pseudolimnaeus - Adult	48 hours
	Acute EC50 5.56 mg/l Fresh water	, Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
Propan-2-ol	Acute EC50 10100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
·	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200000 µg/l Fresh water	Fish - Rasbora heteromorpha	96 hours

Conclusion/Summary

: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.2 Persistence and degradability

Conclusion/Summary

: This product has not been tested for biodegradation.

Product/ingredient name	LogPow	BCF	Potential
n-Butyl acetate	2.3	-	Low
Xylene	3.12	8.1 to 25.9	Low
Ethyl acetate	0.68	30	Low
Methylisobutylketone	1.9	-	Low
Toluene	2.73	90	Low
Ethylbenzene	3.6	-	Low
Propan-2-ol	0.05	-	Low

12.3 Bioaccumulative potential

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
European waste catalogue (EWC)	: 08.01.11
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1993	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, xylene)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, xylene)	FLAMMABLE LIQUID, N.O.S. (xylene, ethyl acetate)	FLAMMABLE LIQUID N.O.S. (xylene, ethyl acetate)
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	11	11	11	11
14.5 Environmental hazards	No.	Yes.	No.	No.
Additional informa ADR/RID ADN	: <u>Special pr</u> <u>Tunnel co</u> : The produc transported	ovisions 640 (C) de (D/E) t is only regulated as an t in tank vessels. ovisions 640 (C)	environmentally hazardo	us substance when
14.6 Special precau user	upright and	within user's premises I secure. Ensure that per f an accident or spillage.		
I4.7 Maritime trans bulk according to I nstruments	-	nt/applicable due to natur	e of the product.	

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

ŝ

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

<u>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous</u> <u>substances, mixtures and articles</u>

Product/ingredient name	%	Designation [Usage]
ALPOLAN DUOSCAN 5483-05	≥90	3
Toluene	≤5	48

Labelling

Other EU regulations

Industrial emissions : Not listed (integrated pollution prevention and control) -Air

/05/2024 Date of previous issue

SECTION 15: Regulatory information : Not listed Industrial emissions (integrated pollution prevention and control) -Water **Explosive precursors** : Not applicable. Ozone depleting substances (1005/2009/EU) Not listed. Prior Informed Consent (PIC) (649/2012/EU) Not listed. Persistent Organic Pollutants Not listed. **Seveso Directive** This product is controlled under the Seveso Directive. **Danger criteria** Category P5c **National regulations Austria VbF class** : AI Very dangerous flammable liquid. Limitation of the use of : Permitted. organic solvents **Czech Republic** Storage code : 1 **Denmark Danish fire class** : 1-1 Executive Order No. 1795/2015 **Annex I Section A** Annex I Section B **Ingredient name** Ethylbenzene Listed Propan-2-ol Listed 4-methylpentan-2-one Carc. 2, H351 : 4-3 **MAL-code** Protection based on MAL 2 According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment: General: Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required. In all spraving operations in which there is return spray, respiratory protection with air supply and arm protectors/apron/coveralls/protective clothing must be worn as appropriate or as instructed. MAL-code: 4-3 **Application:** When spraying in new* booths if the operator is outside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin. - Air-supplied half mask and eye protection must be worn. When using scraper or knife, brush, roller, etc, for pre- and post-treatments in Date of issue/Date of revision · 08/05/2024 45/49 Date of previous issue : No previous validation Version :1

SECTION 15: Regulatory information

SECTION 15: Regulat	to	ry information	
		cabins or booths of the existing* facility type, if the ope	erator is inside the spray zone.
		- Air-supplied half mask, coveralls and eye protection	must be worn.
		During downtimes, cleaning and repair in closed facilit there is a risk of contact with wet paint or organic solve	
		- Air-supplied full mask and coveralls must be worn.	
		When spraying in existing* spray booths, if the operate	or is outside the spray zone.
		- Air-supplied full mask, arm protectors and apron mu	st be worn.
		During non-atomising spraying in existing* facilities of cabin and spray-booth type where the operator is work	
		- Air-supplied full mask must be worn.	
		During all spraying where atomisation occurs in cabins operator is inside the spray zone and during spraying or booth.	
		- Air-supplied full mask, coveralls and hood must be w	/orn.
		Drying: Items for drying/drying ovens that are tempor rack trolleys, etc, must be equipped with a mechanica fumes from wet items from passing through workers' i	I exhaust system to prevent
		Polishing: When polishing treated surfaces, a mask When machine grinding, eye protection must be worn worn.	
		Caution The regulations contain other stipulations in	addition to the above.
		*See Regulations.	
Low-boiling liquids	:	This product contains low-boiling point liquids. Any res should be air-fed.	spiratory protective equipment
Restrictions on use	:	Not to be used by professional users below 18 years of Working Environment Authorities Executive Order reg	of age. See the National arding Young People At Work.
List of undesirable substances	:	Listed	
Carcinogenic waste	:	Waste containers must be labeled: Contains a substa by Danish working environment legislation on cancer i	
Finland			
<u>France</u>			
Social Security Code, Articles L 461-1 to L 461-7	:	n-Butyl acetate Xylene Ethyl acetate Methylisobutylketone Toluene Ethylbenzene Propan-2-ol	RG 84 RG 4bis, RG 84 RG 84 RG 84 RG 4bis, RG 84 RG 84 RG 84
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities we medical surveillance: not applicable	hich require reinforced
<u>Germany</u>			
Storage class (TRGS 510)	:	3	
Hazardous incident ordina			
		the Cormony Hozardous Insident Ordinance	

This product is controlled under the Germany Hazardous Incident Ordinance.

SECTION 15: Regulatory information

Danger criteria

Category		Reference number
P5c		1.2.5.3
Hazard class for water	: 3	

Technical instruction on air quality control	: TA-Luft Number 5.2.5: 81.1% TA-Luft Class I - Number 5.2.5: 6.9%
<u>Italy</u>	
D.Lgs. 152/06	: Not determined.

D.Lgs. 152/06

Netherlands

Ministry of Social Affairs and Employment (SZW) - Carcinogenic substances and processes, mutagenic or reprotoxic substances

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
xylene tolueen	-	-	-	Development 2 Development 2	-
Water Discharge Pol (ABM)	•		ic organisms, may ha	0	rdous effects in
<u>Norway</u>					
<u>Sweden</u>					
Flammable liquid cla (SRVFS 2005:10)	ISS : 1				
Switzerland					
VOC content	: VOC (w/	w): 79.1%			
nternational regulation	<u>ons</u>				
hemical Weapon Co	nvention List Sch	edules I, II & III	<u>Chemicals</u>		
Not listed.					
Iontreal Protocol					
Not listed.					
tockholm Conventio	<u>n on Persistent O</u>	rganic Pollutan	<u>ts</u>		
Rotterdam Conventio Not listed.	<u>n on Prior Inform</u>	ed Consent (PIC	D D		
INECE Aarhus Protoc Not listed.	col on POPs and I	<u>Heavy Metals</u>			
.2 Chemical safety sessment	: This pro- required		ostances for which Ch	nemical Safety Asso	essments are stil

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number

Date of issue/Date of revision	:08/05/2024	Date of previous issue	: No previous validation	Version	:1	47/49
ALPOLAN DUOSCAN 5483-05 - All variants				Label No :	74117	7

SECTION 16: Other information

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Carc. 2, H351	Calculation method
Repr. 2, H361d	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 2, H373	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Date of issue/ Date of	: 08/05/2024
revision	
Date of previous issue	No previous validation

Notice to reader

Version

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

: 1

Date of issue/Date of revision: 08/05/2024Date ofALPOLAN DUOSCAN 5483-05 - All variants

/2024 Date of previous issue

: No previous validation