# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - United Kingdom: Northern Ireland

# **SAFETY DATA SHEET**



ALPOLAN DUOFINISH 5461-80 - FARBLOS-INCOLORE-COLOURLESS

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

1.1 Product identifier Product name

: ALPOLAN DUOFINISH 5461-80 - FARBLOS-INCOLORE-COLOURLESS

**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 Ireland Limited, 52 Ballymoughan Road, Magherafelt, BT45 6HN, UK. Tel. +44 (0) 2879 301 472.

#### 1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : NHS: 111

### **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 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.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.

#### **Precautionary statements**

Date of issue/Date of revision	: 26/09/2024	Date of previous issue	: No previous validation	Version	:1	1/20
ALPOLAN DUOFINISH 5461-80 -	FARBLOS-II	NCOLORE-COLOURLESS		Label No	:51674	4

# **SECTION 2: Hazards identification**

Prevention	:	<ul> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P260 - Do not breathe vapour.</li> </ul>
Response	:	P314 - Get medical advice/attention if you feel unwell.
Storage	:	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	1	Contains: n-Butyl acetate; Toluene; Methyl methacrylate and EO bis(benztriazolyl) phenylpropionat
Supplemental label elements	1	
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 hazards which do	1	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]
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]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≥10 - ≤25	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]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<10	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]

2-butoxyethyl acetate	REACH #: 01-2119475112-47 EC: 203-933-3 CAS: 112-07-2 Index: 607-038-00-2	≤3	Acute Tox. 4, H312 Acute Tox. 4, H332	ATE [Dermal] = 1500 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	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]
Methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	≤0.3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	-	[1] [2]
EO bis(benztriazolyl) phenylpropionat	REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	≤0.3	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.

Туре

[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 m	easures
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
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

# 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 <sub>2</sub> , 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	1	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.

Date of issue/Date of revision	: 26/09/2024	Date of previous issue	: No previous validation	Version	:1	4/20
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SECTION 5: Firefighting measures				
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen 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 precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains 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		
	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	EH40/2005 WELs (United Kingdom (UK), 1/2020).					
	STEL: 966 mg/m <sup>3</sup> 15 minutes.					
	STEL: 200 ppm 15 minutes.					
	TWA: 724 mg/m <sup>3</sup> 8 hours.					
	TWA: 150 ppm 8 hours.					
Ethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).					
	STEL: 400 ppm 15 minutes.					
	TWA: 200 ppm 8 hours.					
	STEL: 1468 mg/m <sup>3</sup> 15 minutes.					
	TWA: 734 mg/m <sup>3</sup> 8 hours.					
Toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed					
	through skin.					
	STEL: 384 mg/m <sup>3</sup> 15 minutes.					
	TWA: 191 mg/m <sup>3</sup> 8 hours.					
Date of issue/Date of revision : 26/09/2						
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	TWA: 50 ppm 8 hours.
Vulana	STEL: 100 ppm 15 minutes.
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-
	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours.
	STEL: 100 ppm 15 minutes.
2-butoxyethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 332 mg/m <sup>3</sup> 15 minutes.
	TWA: 133 mg/m <sup>3</sup> 8 hours.
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
-	through skin.
	STEL: 552 mg/m <sup>3</sup> 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m <sup>3</sup> 8 hours.
Methyl methacrylate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 416 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 208 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
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.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - 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/m³	General population	Local
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>		Systemic
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>		Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Systemic

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		Inhalation				
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic	
	DNEL	Long term Dermal	bw/day 7 mg/kg	population Workers	Systemic	
	DNEL	Long term	bw/day 12 mg/m³	General	Systemic	
	DNEL	Inhalation Long term	48 mg/m <sup>3</sup>	population Workers	Systemic	
		Inhalation	-			
Ethyl acetate	DNEL	Long term Oral	4.5 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	37 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	63 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	367 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	367 mg/m <sup>3</sup>	General	Systemic	
	DNEL	Short term	734 mg/m <sup>3</sup>	General	Local	
	DNEL	Inhalation Short term	734 mg/m³	population General	Systemic	
	DNEL	Inhalation Long term	734 mg/m <sup>3</sup>	population Workers	Local	
	DNEL	Inhalation Long term	734 mg/m³	Workers	Systemic	
		Inhalation				
	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Local	
	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Systemic	
Toluene	DNEL	Long term Oral	8.13 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	56.5 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term	56.5 mg/m <sup>3</sup>	General	Systemic	
	DNEL	Inhalation Long term	192 mg/m³	population Workers	Local	
	DNEL	Inhalation Long term	192 mg/m³	Workers	Systemic	
	DNEL	Inhalation Long term Dermal	226 mg/kg	General	Systemic	
	DNEL	Short term	bw/day 226 mg/m³	population General	Local	
		Inhalation		population		
	DNEL	Short term Inhalation	226 mg/m <sup>3</sup>	General	Systemic	
	DNEL	Long term Dermal	384 mg/kg bw/day	population Workers	Systemic	
	DNEL	Short term	384 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Inhalation Short term	384 mg/m³	Workers	Systemic	
Xylene	DNEL	Inhalation Long term	65.3 mg/m³		Local	
	DNEL	Inhalation Short term	260 mg/m <sup>3</sup>	population General	Local	
	DNEL	Inhalation Short term	260 mg/m <sup>3</sup>	population General	Systemic	
	DNEL	Inhalation Long term	221 mg/m <sup>3</sup>	population Workers	Local	
		Inhalation	_			
	DNEL	Long term Oral	12.5 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Dermal	125 mg/kg	General	Systemic	

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			bw/day	population	
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Inhalation Short term	442 mg/m³	Workers	Systemic
2-butoxyethyl acetate	DNEL	Inhalation Long term Oral	8.6 mg/kg	General	Systemic
, , , , , , , , , , , , , , , , , , ,	DNEL	Short term Oral	bw/day 36 mg/kg	population General	Systemic
			bw/day	population	-
	DNEL	Short term Dermal	72 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	80 mg/m <sup>3</sup>	General	Systemic
	DNEL	Long term Dermal	102 mg/kg	population General	Systemic
	DNEL	Short term Dermal	bw/day 120 mg/kg	population Workers	Systemic
	DNEL	Long term	bw/day 133 mg/m³	Workers	Systemic
		Inhalation	-		
	DNEL	Long term Dermal	169 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	200 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term	333 mg/m³	Workers	Local
Ethylbenzene	DNEL	Inhalation Long term Oral	1.6 mg/kg	General	Systemic
	DNEL	Long term	bw/day 15 mg/m³	population General	Systemic
		Inhalation	_	population	
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term	293 mg/m <sup>3</sup>	Workers	Local
	DMEL	Inhalation Long term	442 mg/m³	Workers	Local
	DMEL	Inhalation Short term	884 mg/m³	Workers	Systemic
Methyl methacrylate	DNEL	Inhalation Long term Oral	8.2 mg/kg	General	Systemic
	DIVEL		bw/day	population	Oysternie
	DNEL	Short term	208 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term Inhalation	416 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Dermal	1.5 mg/cm <sup>2</sup>	General	Local
	DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>	population General	Local
	DNEL	Short term Dermal	1.5 mg/cm <sup>2</sup>	population Workers	Local
	DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Dermal	8.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	13.67 mg/	Workers	Systemic
	DNEL	Long term	kg bw/day 74.3 mg/m³	General	Systemic
	DNEL	Inhalation Long term	104 mg/m³	population General	Local
		Inhalation	_	population	
	DNEL	Long term Inhalation	208 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term	348.4 mg/	Workers	Systemic

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			Inhalation	m³		
PNECs						
No PNECs available						
3.2 Exposure controls						
Appropriate engineering	: 1	se onlv wi	th adequate ventil	ation. Use prod	cess enclosures, lo	ocal exhaust
controls		entilation o ontaminan ontrols als	or other engineerin Its below any reco	g controls to ke mmended or st s, vapour or du	eep worker exposu atutory limits. The st concentrations	ure to airborne e engineering
Individual protection meas	ures					
Hygiene measures					after handling che	
		ppropriate ontaminat ontaminate	e techniques shoul ed work clothing s	d be used to re hould not be al reusing. Ensu	move potentially c lowed out of the w re that eyewash st	
Eye/face protection	( (	ssessmen ases or du	t indicates this is r ists. If contact is p	necessary to av possible, the fol	oid exposure to lic lowing protection	e used when a risk juid splashes, mists should be worn, : chemical splash
Skin protection						
Hand protection		e worn at a is is nece neck durin nould be n fferent for	all times when har ssary. Considerin g use that the glov oted that the time different glove ma	ndling chemical g the paramete ves are still reta to breakthroug anufacturers. In	products if a risk a rs specified by the ining their protect h for any glove ma	aterial may be ures, consisting of
			dations:Wear s	-		
		1 hour (br	eakthrough time):	Nitrile glove	es. thickness >0	.3 mm
			(breakthrough tim	,	•	
Body protection		eing perfo efore hanc ear anti-st scharges, uropean S	rmed and the risks dling this product. atic protective clo clothing should in	s involved and s When there is thing. For the g clude anti-station for further infor	should be approve a risk of ignition fr greatest protection	om static electricity, from static nd gloves. Refer to
Other skin protection	5	elected ba		eing performed		res should be lved and should be
Respiratory protection	:   ;	opropriate	standard or certifi protection program	cation. Respira	ators must be use	rator that meets the d according to a , and other importan
		• •	spray application):	AP		
Environmental exposure controls	:     	missions f nsure they some cas	rom ventilation or comply with the r ses, fume scrubbe	work process e equirements of ers, filters or eng		otection legislation. tions to the process

### **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	
Toluene	110.6	231.1	

F	la	m	m	а	bi	ty

: Not available.

Lower and upper explosion limit

: Lower: 0.8% (xylene)

Upper: 11.5% (ethyl acetate)

**Flash point** 

: Closed cup: -1°C (30.2°F) ŝ,

#### **Auto-ignition temperature**

Ingredient name	°C	°F	Method			
2-butoxyethyl acetate	340	644				
n-Butyl acetate	415	779	EU A.15			

Decomposition temperature	: Not available.
рН	: Not applicable.
Viscosity	: Not available.
Solubility(ies)	:
Not available.	
Solubility in water	: Not available.

2

#### water Vapour pressure

	Va	apour Pres	sure at 20°C	Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethyl acetate	81.59163	10.9				
Toluene	23.17	3.1				

Relative density	: Not available.
Density	: 0.9 g/cm <sup>3</sup>
Vapour density	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable

e. ipp

#### 9.2 Other information

No additional information.

SECTION 10: Stabilit	nd reactivity	
10.1 Reactivity	Io specific test data related to reactivity available for this product or its	s ingredients.
10.2 Chemical stability	he product is stable.	
10.3 Possibility of hazardous reactions	Inder normal conditions of storage and use, hazardous reactions will	not occur.
10.4 Conditions to avoid	void all possible sources of ignition (spark or flame). Do not pressur braze, solder, drill, grind or expose containers to heat or sources of ign	
10.5 Incompatible materials	Reactive or incompatible with the following materials: xidising materials	
10.6 Hazardous decomposition products	Inder normal conditions of storage and use, hazardous decompositio hould not be produced.	n products

# **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	-
Ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
Toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
2-butoxyethyl acetate	LD50 Dermal	Rabbit	1500 mg/kg	-
	LD50 Oral	Rat	2400 mg/kg	-
Ethylbenzene	LC50 Inhalation Dusts and mists	Rat	29000 mg/l	4 hours
	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Methyl methacrylate	LC50 Inhalation Vapour	Rat	78000 mg/m <sup>3</sup>	4 hours
- •	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	7872 mg/kg	-

Conclusion/Summary

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

### Acute toxicity estimates

Route	ATE value		
	11213.45 mg/kg 90.53 mg/l		

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
-	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
Toluene	Eyes - Mild irritant	Rabbit	-	mg 0.5 minutes 100 mg	-
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
	Skin - Mild irritant	Pig	-	mg 24 hours 250 uL	-
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	

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SECTION 11: Toxic	ological information					
	Skin - Moderate irritant	Rabbit	-	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	-	
2-butoxyethyl acetate	Eyes - Mild irritant	Rabbit	-	mg 24 hours 500	-	
	Skin - Mild irritant	Rabbit		mg 500 mg	_	
Ethylbenzene	Eyes - Severe irritant	Rabbit		500 mg	-	
Ethylbenzene	Skin - Mild irritant	Rabbit	-	24 hours 15	-	
				mg		
Conclusion/Summary	: Causes skin irritation.	·				
<u>Sensitisation</u>						
Conclusion/Summary	: May cause an allergic ski	n reaction.				
<u>Mutagenicity</u>						
Conclusion/Summary	: Based on available data,	the classification	n criteria	are not met.		
Carcinogenicity						
Conclusion/Summary	: Based on available data,	the classification	n criteria	are not met.		
Reproductive toxicity						
Conclusion/Summary	: Based on available data,	the classification	n criteria	are not met.		
Teratogenicity						
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
Ethyl acetate	Category 3	-	Narcotic effects
Toluene	Category 3	-	Narcotic effects
Xylene	Category 3	-	Respiratory tract irritation
Methyl methacrylate	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Toluene	- 5 5	-	-
Xylene		oral, inhalation	-
Ethylbenzene		oral, inhalation	hearing organs

#### Aspiration hazard

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

# Information on likely routes : Not available. of exposure

Potential acute health effects		
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.

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SECTION 11: Toxico	logical information
Ingestion	: Can cause central nervous system (CNS) depression.
Symptoms related to the phy	vsical, chemical and 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
Delayed and immediate effect	cts as well as chronic effects from short and long-term exposure
Short term exposure Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.

Potential	chronic	<u>health</u>	effects

Not available.

: Not available.

Potential delayed effects : Not available.

**Conclusion/Summary** 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 : No known significant effects or critical hazards. **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 - Pimephales promelas -	32 days
		Embryo	
Toluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella	72 hours
		subcapitata	
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus	48 hours
		<i>pseudolimnaeus</i> - Adult	
	Acute EC50 5.56 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch -	96 hours
		Fry	
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Methyl methacrylate	Acute LC50 130000 µg/l Fresh water	Fish - Pimephales promelas -	96 hours
-		Adult	

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### 12.2 Persistence and degradability

**Conclusion/Summary** : This product has not been tested for biodegradation.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-Butyl acetate	2.3	-	Low
Ethyl acetate	0.68	30	Low
Toluene	2.73	90	Low
Xylene	3.12	8.1 to 25.9	Low
2-butoxyethyl acetate	1.51	-	Low
Ethylbenzene	3.6	-	Low
Methyl methacrylate	1.38	-	Low

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.

# **SECTION 14: Transport information**

	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, ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, xylene)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, xylene)
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	Yes.	No.	No.
Additional information         ADR/RID       : Special provisions 640 (C) Tunnel code (D/E)         ADN       : The product is only regulated as an environmentally hazardous substance when transported in tank vessels. Special provisions 640 (C)				
<b>14.6 Special precautions for : Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.				
<b>14.7 Maritime transport in</b> : Not relevant/applicable due to nature of the product. bulk according to IMO nstruments				

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## **SECTION 15: Regulatory information**

# 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

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

substances, mixtures and articles						
Product/ingredient name	%	Designation [Usage]				
ALPOLAN DUOFINISH 5461-80 Toluene	≥90 ≥10 - ≤25	3 48				
Labelling :						
Other EU regulations						
Industrial emissions : Not listed (integrated pollution prevention and control) - Air						
Industrial emissions : Not listed (integrated pollution prevention and control) - Water	(integrated pollution prevention and control) -					
	Explosive precursors : Not applicable.					
Ozone depleting substances (1005/2009/E Not listed.	<u>:U)</u>					
Prior Informed Consent (PIC) (649/2012/El Not listed.	<del>(ר</del>					
Persistent Organic Pollutants Not listed.						
Seveso Directive This product is controlled under the Seveso I Danger criteria	Directive.					
Category						
P5c						
International regulations						
Chemical Weapon Convention List Schedu	les I. II & III	Chemicals				
Not listed.						
<u>Montreal Protocol</u>						
Not listed.						
Stockholm Convention on Persistent Organ Not listed.	nic Pollutan	<u>ts</u>				
Rotterdam Convention on Prior Informed C Not listed.	onsent (PIC	<u>)</u>				
UNECE Aarhus Protocol on POPs and Hear Not listed.	<u>vy Metals</u>					

### **SECTION 15: Regulatory information**

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

tion (EC) No.

#### 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
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.
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 Aquatic Chronic 2 Asp. Tox. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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## **SECTION 16: Other information**

#### Notice to reader

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.

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