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



PENTO FLUID TREND 2129-20 - All variants

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

1.1 Product identifier

Product name : PENTO FLUID TREND 2129-20 - 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 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]

Skin Sens. 1, H317

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	: Warning
Hazard statements	: H317 - May cause an allergic skin reaction.
Precautionary statements	
General	 P103 - Read carefully and follow all instructions. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.
Prevention	: P280 - Wear protective gloves.
Response	: P362 + P364 - Take off contaminated clothing and wash it before reuse.
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Contains: EO bis(benztriazolyl)phenylpropionat; Cobalt bis(2-ethylhexanoate); Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate and 1,2-benzisothiazol-3(2H)-one
Date of issue/Date of revision	: 17/01/2024 Date of previous issue : No previous validation Version : 1 1/1.

SECTION 2: Hazards identification

Supplemental label elements	: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
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.	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

1907/2006, Annex XIIIOther 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
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤5	Carc. 2, H351 (inhalation)	-	[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]
Dipropyleneglycolmethylether	REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8	≤1	Not classified.	-	[2]
Cobalt bis (2-ethylhexanoate)	REACH #: 01-2119524678-29 EC: 205-250-6 CAS: 136-52-7	<0.3	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 1B, H360FD Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1] [2]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤0.3	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
barium bis (2-ethylhexanoate)	REACH #: 01-2119983179-22 EC: 219-535-8 CAS: 2457-01-4 Index: 607-230-00-6	<0.3	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 Repr. 1B, H360D	ATE [Oral] = 500 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1]
Reaction mass of Bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	<0.1	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]

4-piperidyl sebacate					
2-ethylhexanoic acid, manganese salt	REACH #: 01-2119979087-23 EC: 240-085-3 CAS: 15956-58-8	≤0.1	Eye Irrit. 2, H319 Repr. 1B, H360D STOT RE 2, H373 Aquatic Chronic 2, H411	-	[1] [2
Ammonia	REACH #: 01-2119488876-14 EC: 215-647-6 CAS: 1336-21-6 Index: 007-001-01-2	<0.1	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400	STOT SE 3, H335: C ≥ 5% M [Acute] = 1	[1] [2
1,2-benzisothiazol-3(2H)- one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.05	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	ATE [Oral] = 1020 mg/kg Skin Sens. 1, H317: C ≥ 0.05% M [Acute] = 1	[1]
pyrithione zinc	REACH #: 01-2119511196-46 EC: 236-671-3 CAS: 13463-41-7 Index: 613-333-00-7	<0.01	Acute Tox. 3, H301 Acute Tox. 2, H330 Eye Dam. 1, H318 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 221 mg/kg ATE [Inhalation (dusts and mists)] = 0.14 mg/l M [Acute] = 1000 M [Chronic] = 10	[1]
2-methyl-2H-isothiazol- 3-one	EC: 220-239-6 CAS: 2682-20-4	<0.01	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.11 mg/l Skin Sens. 1, H317: $C \ge 0.0015\%$ M [Acute] = 10 M [Chronic] = 1	[1]
Formaldehyde	REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (gases)] = 700 ppm Skin Corr. 1B, H314: C ≥ 25% Skin Irrit. 2, H315: $5\% \le C < 25\%$ Eye Dam. 1, H318: $C \ge 25\%$ Eye Irrit. 2, H319: $5\% \le C < 25\%$ Skin Sens. 1, H317: $C \ge 0.2\%$ STOT SE 3, H335: $C \ge 5\%$	[1] [2
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤0.1	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2

SECTION 3: CO	omposition/informat		STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304		
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤0.1	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]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 See Section 16 for the full text of the H statements declared above.	-	[1] [2]

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.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter \leq 10 µm not bound within a matrix.

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 if irritation occurs. Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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. **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. : Wash out mouth with water. Remove dentures if any. If material has been Ingestion 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 adverse health effects persist or are severe. 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. It 2 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. Date of issue/Date of revision · 17/01/2024 Date of previous issue Version :1 4/18 : No previous validation PENTO FLUID TREND 2129-20 - All variants Label No :51554

SECTION 4: First aid measures

4.2 Most important symp	toms and effects, both acute and delayed
Over-exposure signs/sy	<u>mptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising f	fron	the substance or mixture
Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	:	Decomposition products may include the following materials: 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.
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. 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

SECTION 6: Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. 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. 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

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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 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. 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.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

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
Dipropyleneglycolmethylether	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	TWA: 308 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Cobalt bis(2-ethylhexanoate)	EH40/2005 WELs (United Kingdom (UK), 1/2020). [cobalt and
	cobalt compounds as Co] Inhalation sensitiser.
	TWA: 0.1 mg/m ³ , (as Co) 8 hours.
2-Butoxyethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 50 ppm 15 minutes.
	TWA: 25 ppm 8 hours.
	STEL: 246 mg/m ³ 15 minutes.
	TWA: 123 mg/m ³ 8 hours.
2-ethylhexanoic acid, manganese salt	EH40/2005 WELs (United Kingdom (UK), 1/2020). [manganese
	and its inorganic compounds inhalable fraction/respirable
	fraction, as Mn]
	TWA: 0.2 mg/m ³ , (as Mn) 8 hours. Form: Inhalable fraction
Americania	TWA: 0.05 mg/m ³ , (as Mn) 8 hours. Form: Respirable fraction
Ammonia	EH40/2005 WELs (United Kingdom (UK), 1/2020). [ammonia
	anhydrous]
	STEL: 25 mg/m ³ 15 minutes. Form: anhydrous STEL: 35 ppm 15 minutes. Form: anhydrous
	TWA: 25 ppm 8 hours. Form: anhydrous
	TWA: 25 ppm o hours. Form: annyarous
Formaldehyde	EH40/2005 WELs (United Kingdom (UK), 1/2020).
i onnaldenyde	STEL: 2.5 mg/m ³ 15 minutes.
	STEL: 2 ppm 15 minutes.
	TWA: 2 ppm 8 hours.
	TWA: 2.5 mg/m ³ 8 hours.
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m
5	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 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.
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.

Biological exposure indices

Product/ingredient name	Exposure indices
2-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.
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.

SECTION 8: Exposure controls/personal protection

procedures

Recommended monitoring : 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
Cobalt bis(2-ethylhexanoate)	DNEL	Long term	37 µg/m³	General	Local
		Inhalation		population	
	DNEL	Long term Oral	175 µg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	235.1 µg/	Workers	Local
		Inhalation	m³		
2-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Oral	26.7 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	59 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	98 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	147 mg/m³	General	Local
		Inhalation		population	
	DNEL	Short term	246 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	426 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m³		
barium bis(2-ethylhexanoate)	DNEL	Long term Oral	2.5 mg/kg	General	Systemic
		_	bw/day	population	
	DNEL	Long term	2.6 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	3.62 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	7.25 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	8.8 mg/m ³	Workers	Systemic
		Inhalation	-		
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/	General	Systemic
		U U	kg bw/day	population	
	DNEL	Long term Dermal	0.966 mg/	Workers	Systemic
		U U	kg bw/day		
	DNEL	Long term	1.2 mg/m ³	General	Systemic
		Inhalation	, J	population	-
	DNEL	Long term	6.81 mg/m ³	Workers	Systemic
		Inhalation	-		-
pyrithione zinc	DNEL	Long term Dermal	0.01 mg/	Workers	Systemic
			kg bw/day		
2-methyl-2H-isothiazol-3-one	DNEL	Long term	0.021 mg/	General	Local
-		Inhalation	m³ Ö	population	
	DNEL	Long term	0.021 mg/	Workers	Local
		Inhalation	m³ Ö		
	DNEL	Long term Oral	0.027 mg/	General	Systemic
		-	kg bw/day	population	-
	DNEL	Short term	0.043 mg/	General	Local
		Inhalation	m³ Ö	population	
	DNEL	Short term	0.043 mg/	Workers	Local
			m³		
		Inhalation	111		

PENTO FLUID TREND 2129-20 - All variants

Label No :51554

SECTION 8: Exposu		-	-				
		DNEL	Short term Oral	0.053 mg/ kg bw/day	General population	Systemic	
PNECs						1	
No PNECs available							
3.2 Exposure controls							
Appropriate engineering controls		od genera ntaminants	al ventilation should s.	be sufficient to	o control worker ex	posure to airborne	
Individual protection meas	<u>ures</u>						
Hygiene measures	be Ap Co col she	ore eating propriate f ntaminate ntaminate owers are	d work clothing sho d clothing before re close to the workst	ng the lavatory be used to rem buld not be allo using. Ensure ation location.	and at the end of t ove potentially con wed out of the wor that eyewash stati	he working period. taminated clothing. kplace. Wash ons and safety	
Eye/face protection	as: ga: un	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: safety glasses with side-shields.					
Skin protection							
Hand protection	be this cho sho difi sev	worn at al s is neces eck during ould be no ferent for o		ing chemical p the parameters s are still retain breakthrough ufacturers. In t	roducts if a risk as specified by the g ing their protective for any glove mate the case of mixture	sessment indicates love manufacturer, properties. It rial may be es, consisting of	
	Re	commend	lations:Wear suit	able gloves tes	sted to EN374.		
	> 8	hours (br	eakthrough time):	Nitrile gloves	. thickness > 0.3	mm	
		t recomm		1 5 5	ohol (PVA) gloves		
Body protection	be	ng perforr	tective equipment f ned and the risks ir ing this product.				
Other skin protection	se	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	ap res	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.					
Environmental exposure controls	en: In :	sure they of some case	om ventilation or we comply with the req es, fume scrubbers ill be necessary to	uirements of e , filters or engin	nvironmental prote neering modificatio	ection legislation. Ins 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

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.

SECTION 9: Physical and chemical properties

1

2

Initial boiling point and boiling range

Ingredient name		°C		°F	Method
water		100)	212	
Flammability	:	Not availab	le.		ł
Lower and upper explosion limit	1	Lower: Not Upper: Not			
Flash point	÷	Closed cup	: >100°C (>212	°F)	
Auto-ignition temperature	÷	Not availab	le.		
Decomposition temperature	:	Not availab	le.		
рН	:	8 to 10.5 [C	Conc. (% w/w): 1	00%]	
Viscosity	:	Not availab	le.		
Solubility(ies)	÷				
Not available.					
Solubility in water	:	Not availab	le.		
Partition coefficient: n-octanol/ water	:	Not applica	ble.		

Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
water	17.5	2.3						
Relative density	: Not	available.						
Density	: 1 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	: No specific data.
10.5 Incompatible materials	: No specific data.
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

10/18

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
Cobalt bis(2-ethylhexanoate)	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	1.22 g/kg	-
Reaction mass of Bis	LD50 Dermal	Rat	>3170 mg/kg	-
(1,2,2,6,6-pentamethyl-				
4-piperidyl) sebacate and				
Methyl				
1,2,2,6,6-pentamethyl-				
4-piperidyl sebacate				
	LD50 Oral	Rat	3230 mg/kg	-
1,2-benzisothiazol-3(2H)-	LD50 Oral	Rat	1020 mg/kg	-
one				
pyrithione zinc	LC50 Inhalation Dusts and	Rat	140 mg/m³	4 hours
	mists			
	LD50 Dermal	Rabbit	100 mg/kg	-
	LD50 Oral	Rat	177 mg/kg	-
2-methyl-2H-isothiazol-	LC50 Inhalation Dusts and	Rat	0.11 mg/l	4 hours
3-one	mists			

Acute toxicity estimates

	Route	ATE value
Inhalation (vapou	rs)	2509.02 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	ug I 24 hours 100 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
1,2-benzisothiazol-3(2H)-one	Skin - Mild irritant	Human	-	48 hours 5 %	-
Conclusion/Summary	: Based on available data,	the classification o	riteria are	not met.	
Sensitisation					

Conclusion/Summary **Mutagenicity**

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

: May cause an allergic skin reaction.

Carcinogenicity

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

Conclusion/Summary	1	Based on available data, the classification criteria are not met.
Reproductive toxicity		
Conclusion/Summary	1	Based on available data, the classification criteria are not met.
Teratogenicity		
Conclusion/Summary	1	Based on available data, the classification criteria are not met.
Specific target organ toxicit	ty ((single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
pyrithione zinc	Category 1	-	-

Aspiration hazard

Date of issue/Date of revision PENTO FLUID TREND 2129-20 - All variants

SECTION 11: Toxicological information

Not available.

Information on likely routes of exposure	Not availat	le.
Potential acute health effects		
Eye contact	No known	significant effects or critical hazards.
Inhalation	No known	significant effects or critical hazards.
Skin contact	May cause	an allergic skin reaction.
Ingestion	No known	significant effects or critical hazards.
Symptoms related to the phy	al, chemica	al and toxicological characteristics
Eye contact	No specific	data.
Inhalation	No specific	data.
Skin contact	Adverse sy irritation redness	mptoms may include the following:
Ingestion	No specific	data.
Delayed and immediate effect	s well as o	hronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	Not availat	le.
Potential delayed effects	Not availat	le.
<u>Long term exposure</u>		
Potential immediate effects	Not availat	le.
Potential delayed effects	Not availab	le.
Potential chronic health eff		
Not available.		
Conclusion/Summary	Not availat	le.
General	Once sens to very low	itized, a severe allergic reaction may occur when subsequently exposed levels.
Carcinogenicity	No known	significant effects or critical hazards.
Mutagenicity	No known	significant effects or critical hazards.
Reproductive toxicity	No known	significant effects or critical hazards.

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

SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex -</i> Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
-	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
Reaction mass of Bis	EC50 1.68 mg/l	Aquatic plants -	72 hours
(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl		Desmodesmodus subspicatus	
1,2,2,6,6-pentamethyl- 4-piperidyl sebacate			
	Acute LC50 0.9 mg/l	Fish - Brachydanio rerio	96 hours
	Chronic NOEC 1 mg/l	Daphnia	21 days
1,2-benzisothiazol-3(2H)-one	Acute EC50 0.36 mg/l Marine water	Algae - Skeletonema Costatum	72 hours
	Acute EC50 3.7 mg/l	Daphnia - <i>Daphnia Magna</i>	48 hours
	Acute LC50 1.9 mg/l Fresh water	Fish - Onorhynchus Mykiss	96 hours
	Acute NOEC 0.15 mg/l Marine water	Algae - Skeletonema Costatum	72 hours
pyrithione zinc	Acute EC50 0.51 μg/l Marine water	Algae - Thalassiosira pseudonana	96 hours
	Acute EC50 38 μg/l Fresh water	Crustaceans - Ilyocypris dentifera	48 hours
	Acute EC50 8.25 ppb Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 2.68 ppb Fresh water	Fish - Pimephales promelas	96 hours
	Chronic EC10 0.36 µg/l Marine water	Algae - Thalassiosira pseudonana	96 hours
	Chronic NOEC 2.7 ppb Fresh water	, Daphnia - <i>Daphnia magna</i>	21 days
2-methyl-2H-isothiazol-3-one	Acute EC50 0.18 ppm Fresh water	Daphnia - Daphnia magna	48 hours
2	Acute LC50 0.07 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
1,2-benzisothiazol-3(2H)-one	EU	24 % - 28 days		-	-
Conclusion/Summary : This product has not been tested for biodegradation.					
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
1,2-benzisothiazol-3(2H)-one	-		-		Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Cobalt bis(2-ethylhexanoate)	-	15600	High
2-Butoxyethanol	0.81	-	Low
barium bis(2-ethylhexanoate)	-	2.96	Low
1,2-benzisothiazol-3(2H)-one	-	3.2	Low
pyrithione zinc	0.9	11	Low

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

24 Date of previous issue

SECTION 12: Ecological information

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 meth	ods
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.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
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. 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	Not regulated.	9006	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADN

: The product is only regulated as a dangerous good when transported in tank vessels.

14.6 Special precautions for user

: **Transport within user's premises:** 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.

SECTION 14: Transport information

14.7 Maritime transport in bulk according to IMO instruments

: Not relevant/applicable due to nature of the product.

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

Product/ingredient name %		Designation [Usage]
PENTO FLUID TREND 2129-20 ≥90		3
Labelling :		
Other EU regulations		
Industrial emissions : Not listed (integrated pollution prevention and control) - Air		
Industrial emissions : Not listed (integrated pollution prevention and control) - Water		
Explosive precursors : Not applie	able.	
Ozone depleting substances (1005/200 Not listed.	<u>9/EU)</u>	
Prior Informed Consent (PIC) (649/2012 Not listed.	<u>?/EU)</u>	
Persistent Organic Pollutants Not listed.		

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
Cobalt bis(2-ethylhexanoate)	•	cobalt and cobalt compounds as Co	Carc.	-
	•	formaldehyde; methanal	Carc.	-

International regulations

<u>Chemical Weapon Convention List Schedules I, II & III Chemicals</u> Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

SECTION 15: Regulatory information

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

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.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative
Barris and the second state of the second	the start (in the second in the Density (sec. (50) New 4070/0000 FOLD/01/01

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

Classification	Justification
Skin Sens. 1, H317	Calculation method

Full text of abbreviated H statements

Full text of appreviated H statements		
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H311	Toxic in contact with skin.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H330	Fatal if inhaled.	
H331	Toxic if inhaled.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H341	Suspected of causing genetic defects.	
H350	May cause cancer.	
H351	Suspected of causing cancer.	
H360D	May damage the unborn child.	
H360FD	May damage fertility. May damage the unborn child.	
H361d	Suspected of damaging the unborn child.	
H361f	Suspected of damaging fertility.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
EUH071	Corrosive to the respiratory tract.	
Full text of close literations (OLD/OLIO)		

Full text of classifications [CLP/GHS]

SECTION 16: Other information

Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 1B	CARCINOGENICITY - Category 1B
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
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	: 17/01/2024
revision	
Date of previous issue	e : No previous validation
Version	: 1
	PENTO FLUID TREND 2129-20 All variants

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.

Date of issue/Date of revision: 17/01/2024DatePENTO FLUID TREND 2129-20 - All variants

024 Date of previous issue