

SAFETY DATA SHEET

VIVEHARD SECTION 1: Identification of the substance/mixture and of the company/ undertaking 1.1. Product identifier **VIVEHARD Product name** ÷ 1.2. Relevant identified uses of the substance or mixture and uses advised against **Product use** Use in accordance with directions on the can. ÷ 1.3. Details of the supplier of the safety data sheet VIVECHROM, Thesi Vathi Pigadi, 196 00 Mandra Attikis, Greece, Tel. +30 210 5538700, Fax. +30 210 5550464, www.vivechrom.gr e-mail address of person : HSE.GR@akzonobel.com responsible for this SDS 1.4 Emergency telephone number **Telephone number** : Emergency phone number of the Company Tel. +30(210) 5538700 (24 Hours/day, every day) & 801 11 55600 (8:00 - 16:00) Official advisory body (Greece) Tel. +30 (210) 7793 777, (24 Hours/day, every day) Version : 14 11-3-2021 Date of previous issue

SECTION 2: Hazards identification

2.1 Classification of the sub	stance or mixture
Product definition	: Mixture
Classification according to	Regulation (EC) No. 1272/2008 [CLP/GHS]
🏹 am. Liq. 3, H226	
Skin Sens. 1, H317	
STOT SE 3, H335	
STOT SE 3, H336	
The product is classified as h	azardous according to Regulation (EC) 1272/2008 as amended.
Ingredients of unknown	: 0%
toxicity	
Ingredients of unknown	: 0%
ecotoxicity	
See Section 16 for the full te	xt of the H statements declared above.

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

2.2 Label elements

SECTION 2: Hazards identification

Hazard pictograms	$\land \land$	
Signal word	/arning	
Hazard statements	226 - Flammable liquid and vapour. 317 - May cause an allergic skin reaction. 335 - May cause respiratory irritation. 336 - May cause drowsiness or dizziness.	
Precautionary statements		
General	102 - Keep out of reach of children. 101 - If medical advice is needed, have product container or label a	it hand.
Prevention	280 - Wear protective gloves. 210 - Keep away from heat, hot surfaces, sparks, open flames and ources. No smoking. 271 - Use only outdoors or in a well-ventilated area. 261 - Avoid breathing vapour.	other ignition
Response	304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you 362 + P364 - Take off contaminated clothing and wash it before reu 302 + P352 - IF ON SKIN: Wash with plenty of water. 333 + P313 - If skin irritation or rash occurs: Get medical advice or	lse.
Storage	405 - Store locked up. 403 + P233 - Store in a well-ventilated place. Keep container tightly 403 + P235 - Keep cool.	[,] closed.
Disposal	501 - Dispose of contents and container in accordance with all loca ational or international regulations.	l, regional,
Hazardous ingredients	Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers butyl acetate isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	
Supplemental label elements	ontains isocyanates. May produce an allergic reaction. Repeated e ause skin dryness or cracking.	xposure may
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	ot applicable.	
Special packaging requirem		
Containers to be fitted with child-resistant fastenings	ot applicable.	
Tactile warning of danger	ot applicable.	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	his mixture does not contain any substances that are assessed to t PvB.	be a PBT or a
Other hazards which do not result in classification	one known.	

SECTION 3: Composition/information on ingredients

3.2 Mixtures	:	Mixture
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Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
S-Isocyanatomethyl-	REACH #:	≥50 - ≤75	Skin Sens. 1B, H317 STOT SE 3, H335	[1]
3,5,5-trimethylcyclohexyl isocyanate, oligomers	01-2119488734-24 EC: 500-125-5 CAS: 53880-05-0		3101 3E 3, 1333	
n-butyl acetate	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]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
3-isocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate	EC: 223-861-6 CAS: 4098-71-9	≤0.6	Acute Tox. 1, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411	[1] [2]
			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

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
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.

SECTION 4: First aid measures

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers, 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate. May produce an allergic reaction.

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.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

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5.1 Extinguishing media	
Suitable extinguishing media	: Recommended: alcohol-resistant foam, CO ₂ , powders, water spray or mist.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising fi	om the substance or mixture
Hazards from the substance or mixture	: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
Hazardous combustion products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
Special protective equipment for fire-fighters	: Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	1	Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
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	:	Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
6.3 Methods and material for containment and cleaning up	:	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 (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13).
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).

Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

Examination of lung function should be carried out on a regular basis on persons spraying this mixture.

7.1 Precautions for safe handling	 Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Care should be taken when re-opening partly-used containers. Precautions should be taken to minimise exposure to atmospheric humidity or water. CO₂ will be formed, which, in closed containers, could result in pressurisation. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses. Information on fire and explosion protection Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.
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SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed.

Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
₽́5c	5000 tonne	50000 tonne

7.3 Specific end use(s)

Recommendations

Not available.Not available.

Industrial sector specific 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
<mark>p</mark> -butyl acetate	Ministry of Labour and Social Affairs (Greece, 2/2012). TWA: 150 ppm 8 hours. TWA: 710 mg/m ³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 950 mg/m ³ 15 minutes.
2-methoxy-1-methylethyl acetate	Ministry of Labour and Social Affairs (Greece, 2/2012). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m ³ 15 minutes.
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Ministry of Labour and Social Affairs (Greece, 2/2012). Absorbed through skin. TWA: 0.01 ppm 8 hours. TWA: 0.09 mg/m ³ 8 hours. STEL: 0.02 ppm 15 minutes. STEL: 0.18 mg/m ³ 15 minutes.
procedures atmosphere or of the ventilation protective equil the following: If the assessmen limit values and atmospheres - of exposure to (Workplace atmospheres)	contains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness on or other control measures and/or the necessity to use respiratory pment. Reference should be made to monitoring standards, such as European Standard EN 689 (Workplace atmospheres - Guidance for at of exposure by inhalation to chemical agents for comparison with d measurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 nospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be

SECTION 8: Exposure controls/personal protection

required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used.

Examination of lung function	on s	should be carried out on a regular basis on persons spraying this mixture.
Appropriate engineering controls	:	Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Air-fed protective respiratory equipment must be worn by the spray operator, even when good ventilation is provided. In other operations, if local exhaust ventilation and good general extraction are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn. (See Occupational exposure controls.)
Individual protection measu	res	
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	1	Use safety eyewear designed to protect against splash of liquids.
Skin protection		
		When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness \geq 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness \geq 0.12 mm. Gloves should be replaced regularly and if there is any sign of damage to the glove
		material.
		The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.
Body protection	:	Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.
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	:	By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask.
Environmental exposure controls	:	Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

9.1. Information on basic p	physical and chemical properties	
Appearance		
Physical state	: Liquid.	
Colour	: Various: See label.	
Odour	: Not available.	
Odour threshold	: Not available.	

SECTION 9: Physical and chemical properties

рН	: Not applicable.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: 126°C
Flash point	: Closed cup: 28°C
Evaporation rate	: Not available.
Upper/lower flammability or explosive limits	: Not available.
Vapour pressure	: Not available.
Vapour density	: Not available.
Relative density	: 1.045
Solubility(ies)	: Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (room temperature): 0.67 cm²/s Kinematic (40°C): 0.7 cm²/s
Explosive properties	: Not available.
Oxidising properties	: Not available.
9.2. Other information	
Solubility in water	: Not available.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	The product reacts slowly with water, resulting in the production of carbon dioxide.
10.2 Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	:	In closed containers, pressure build-up could result in distortion, expansion and, in extreme cases, bursting of the container.
10.4 Conditions to avoid	:	In a fire, hazardous decomposition products may be produced.
10.5 Incompatible materials	:	Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.
10.6 Hazardous decomposition products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin. This takes into account, where known, delayed and

SECTION 11: Toxicological information

immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers, 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
p -butyl acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Oral	Guinea pig	4700 mg/kg	-
	LD50 Oral	Mammal -	4300 mg/kg	-
		species		
		unspecified		
	LD50 Oral	Mouse	6 g/kg	-
	LD50 Oral	Rabbit	3200 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
	LD50 Route of exposure	Mammal -	1592 mg/kg	-
	unreported	species		
		unspecified		
	LDLo Intramuscular	Guinea pig	2648 mg/kg	-
	LDLo Intraperitoneal	Guinea pig	1500 mg/kg	-
2-methoxy-1-methylethyl acetate	LD50 Intraperitoneal	Mouse	>1500 mg/kg	-
	LD50 Oral	Mouse	>5000 mg/kg	-
	LD50 Oral	Rat	9000 mg/kg	-
3-isocyanatomethyl-	LC50 Inhalation Dusts and	Rat - Male,	0.031 mg/l	4 hours
3,5,5-trimethylcyclohexyl isocyanate	mists	Female		
, ,	LD50 Dermal	Rat - Male, Female	>7000 mg/kg	-
	LD50 Oral	Cat	1 mL/kg	-
	LD50 Oral	Mouse - Male	>2.645 mg/kg	-
	LD50 Oral	Rat - Male,	4814 mg/kg	-
		Female	3,3	
	LD50 Oral	Rat	4825 mg/kg	-
	LDLo Dermal	Rat	1 mL/kg	-
	LDLo Oral	Mouse	2500 uL/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
91719 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	N/A 4814	N/A N/A	N/A N/A	N/A N/A	7.3 0.031

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-butyl acetate	Eyes - Moderate irritant Skin - Moderate irritant	Rabbit Rabbit	-	100 milligrams 24 hours 500 milligrams	-
Conclusion/Summary	: Not available.	1	1	1	1

Sensitisation

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SECTION 11: Toxicological information

Conclusion/Summary	: Not available.
Mutagenicity	
Conclusion/Summary	: Not available.
Carcinogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
Teratogenicity	
Conclusion/Summary	: Not available.
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Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
 Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers n-butyl acetate 2-methoxy-1-methylethyl acetate 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate 	Category 3 Category 3 Category 3 Category 3		Respiratory tract irritation Narcotic effects Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment, but contains substance(s) hazardous to the environment. See section 3 for details.

P-butyl acetateAcute LC50 32 mg/l Marine water Acute LC50 100000 μg/l Fresh water Acute LC50 18000 μg/l Fresh water Acute LC50 18000 μg/l Fresh water Acute LC50 185000 μg/l Marine water Acute LC50 185000 μg/l Marine water Acute LC50 62000 μg/l Fresh waterCrustaceans - Artemia salina Fish - Lepomis macrochirus Fish - Pimephales promelas Fish - Menidia beryllina Fish - Danio rerio48 hours 96 hours 96 hours 96 hours	Product/ingredient name	Result	Species	Exposure
	p-butyl acetate	Acute LC50 100000 μg/l Fresh water Acute LC50 18000 μg/l Fresh water Acute LC50 185000 μg/l Marine water	Fish - Lepomis macrochirus Fish - Pimephales promelas Fish - Menidia beryllina	96 hours 96 hours 96 hours

Conclusion/Summary

: Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
 P-butyl acetate 2-methoxy-1-methylethyl acetate 3-isocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate 	2.3 1.2 0.99	-	low low low

SECTION 12: Ecological information

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 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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).

13.1 Waste treatment methods

Product			
Methods of disposal	Disposal of this with the require and any region recyclable proo disposed of un	of waste should be avoided or minimised wherever possible. Is product, solutions and any by-products should at all times comply ements of environmental protection and waste disposal legislation al local authority requirements. Dispose of surplus and non- ducts via a licensed waste disposal contractor. Waste should not be treated to the sewer unless fully compliant with the requirements of with jurisdiction.	
Hazardous waste	: The classificat	on of the product may meet the criteria for a hazardous waste.	
Disposal considerations	be neutralised Dispose of acc If this product i longer apply ar	 Do not allow to enter drains or watercourses. Residues in empty containers should be neutralised with a decontaminant (see section 6). Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority. 	
Packaging			
Methods of disposal	packaging sho	of waste should be avoided or minimised wherever possible. Waste uld be recycled. Incineration or landfill should only be considered is not feasible.	
Disposal considerations	the relevant wa Empty contain	ion provided in this safety data sheet, advice should be obtained from aste authority on the classification of empty containers. ers must be scrapped or reconditioned. tainers contaminated by the product in accordance with local or provisions.	
Type of packaging		European waste catalogue (EWC)	
CEPE Paint Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances	
Special precautions	taken when ha Empty contain residues may c container. Do thoroughly inte	nd its container must be disposed of in a safe way. Care should be ndling emptied containers that have not been cleaned or rinsed out. ers or liners may retain some product residues. Vapour from product create a highly flammable or explosive atmosphere inside the not cut, weld or grind used containers unless they have been cleaned rnally. Avoid dispersal of spilt material and runoff and contact with s, drains and sewers.	

SECTION 14: Transport information

Information pertaining to IATA and ADN is considered not relevant since the material is not packaged in the correct approved packaging required of these methods of transport.

ADR

IMDG

	1.0.1.000		
14.1 UN number	UN1263	UN1263	
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	
14.3 Transport hazard class(es) Class	3	3	
Subsidiary class	-	-	
14.4 Packing group			
14.5 Environmental hazards Marine pollutant Marine pollutant substances	No.	No. Not available.	
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.		
HI/Kemler number	30		
Emergency schedules (EmS)		F-E, S-E	
14.7 Transport in bu according to IMO instruments	Ilk : Not applicable.		
Additional information	<u>Tunnel code</u> (D/E)	-	

Annex XIV

None of the components are listed, or the component present is below its threshold.

Substances of very high concern

None of the components are listed, or the component present is below its threshold.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

SECTION 15: Regulatory information

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

CEPE code

: 5

✓ 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 SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative
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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Mam. Liq. 3, H226	On basis of test data
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method

Full text of abbreviated H statements

VIVEHARD				
SECTION 16: Other information				
<mark>₩</mark> 226		Flammable liquid and vapour.		
H315		Causes skin irritation.		
H317		May cause an allergic skin reaction.		
H319		Causes serious eye irritation.		
H330		Fatal if inhaled.		
H334		May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
H335		May cause respiratory irritation.		
H336		May cause drowsiness or dizziness.		
H411		Toxic to aquatic life with long lasting effects.		
EUH066		Repeated exposure may cause skin dryness or cracking.		
Full text of classifications	[CLP/GHS]			
Kcute Tox. 1		ACUTE TOXICITY - Category 1		
Aquatic Chronic 2		LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2		
Eye Irrit. 2		SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2		
Flam. Liq. 3		FLAMMABLE LIQUIDS - Category 3		
Resp. Sens. 1		RESPIRATORY SENSITISATION - Category 1		
Skin Irrit. 2		SKIN CORROSION/IRRITATION - Category 2		
Skin Sens. 1		SKIN SENSITISATION - Category 1		
Skin Sens. 1B		SKIN SENSITISATION - Category 1B		
STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -		
		Category 3		
Date of printing	: 7-1-2022			
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Version	: 14			

Notice to reader

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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