# Guality Paints since 1845 MATHYS RUST-OLEUM®

2500 Hard-Hat® Clear

SAFETY DATA SHEET

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

1.1 Product identifier Product name

: 2500 Hard-Hat® Clear

Product description Product type

: Aerosol. Paint.

: Aerosol.

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** 

Industrial uses Consumer uses Professional uses

#### 1.3 Details of the supplier of the safety data sheet

Martin Mathys NV, Kolenbergstraat 23, B-3545 Zelem, Belgium Telephone no.: +32 (0) 13 460 200 Fax no.: +32 (0) 13 460 201

e-mail address of person : rpmeurohas@ro-m.com responsible for this SDS

#### 1.4 Emergency telephone number

 Supplier

 Telephone number
 : +44 (0) 207 858 1228

 Hours of operation
 : 24 / 7

### **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]

Aerosol 1, H222, H229 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 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



# **SECTION 2: Hazards identification**

Signal word	1	Danger
Hazard statements	:	Extremely flammable aerosol. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Pressurized container: may burst if heated.
Precautionary statements		
General	:	P102 - Keep out of reach of children. P103 - Read label before use. P101 - If medical advice is needed, have product container or label at hand.
Prevention	:	<ul> <li>P210 - Keep away from heat, sparks, open flames and hot surfaces No smoking.</li> <li>P211 - Do not spray on an open flame or other ignition source.</li> <li>P251 - Do not pierce or burn, even after use. Do not pierce or burn, even after use.</li> <li>P260 - Do not breathe vapour or spray.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P280 - Wear protective gloves and eye protection: <ul> <li>nitrile rubber gloves and Safety glasses with side shields.</li> </ul> </li> </ul>
Response	:	P302 - IF ON SKIN: P352 - Wash with plenty of soap and water.
Storage	-	P405 - Store locked up. P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	xylene (mixture of isomeres)
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	nen	<u>its</u>
Containers to be fitted with child-resistant fastenings	-	Not applicable.
Tactile warning of danger	:	Yes, applicable.
2.3 Other hazards		

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

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures	: Mixture			
Product/ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Туре
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SECTION 3: Composition/information on ingredients				
dimethyl ether	EC: 204-065-8 CAS: 115-10-6 Index: 603-019-00-8	≥50 - <75	Flam. Gas 1, H220	[2]
xylene (mixture of isomeres)	REACH #: 01-2119488216-32	≥25 - <50	Flam. Liq. 3, H226	[1] [2]
	EC: 215-535-7 CAS: 1330-20-7		Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304	
1-methoxy-2-propanol	REACH #: 01-2119457435-35	≥5 - <10	Flam. Liq. 3, H226	[1] [2]
	EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3		STOT SE 3, H336	
ethylbenzene	REACH #: 01-2119489370-35	≥3 - <5	Flam. Liq. 2, H225	[1] [2]
	EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4		Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304	
1-isopropyl-2, 2-dimethyltrimethylene diisobutyrate	REACH #: 01-2119451093-47	≥1 - <3	Aquatic Chronic 3, H412	[1]
	EC: 229-934-9 CAS: 6846-50-0			
toluene	REACH #: 01-2119471310-51	≥0.1 - <0.3	Flam. Liq. 2, H225	[1] [2]
	EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3		Skin Irrit. 2, H315 Repr. 2, H361d (Unborn child) 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.	

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

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

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures : In all cases of doubt, or when symptoms persist, seek medical attention. Never give General anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice. : Remove contact lenses, irrigate copiously with clean, fresh water, holding the Eye contact evelids apart for at least 10 minutes and seek immediate medical advice. : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is Inhalation 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. Date of issue/Date of revision : 2/02/2017 : 2/02/2017 Date of previous issue Version : 2.01 3/18

#### **SECTION 4: First aid measures**

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.

#### 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. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

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

Ingestion may cause nausea, diarrhea and vomiting.

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.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefigh	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising	rom 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 thermal decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
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 5: Firefighting measures				
Additional information	:	Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Container explosion may occur under fire conditions or when heated. Bursting aerosol containers may be propelled from a fire at high speed.		
<b>SECTION 6: Acciden</b>	ta	l release measures		
6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures		
For non-emergency personnel	:	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	:	Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).		
6.3 Methods and material for	со	ntainment 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.		

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling	<ul> <li>Prevent the creation of flammable or avoid vapour concentrations higher the In addition, the product should only be other sources of ignition have been en- protected to the appropriate standard Mixture may charge electrostatically: from one container to another.</li> <li>Operators should wear antistatic foot conducting type.</li> <li>Keep away from heat, sparks and fla Avoid contact with skin and eyes. Av- mist arising from the application of the sanding.</li> <li>Eating, drinking and smoking should handled, stored and processed.</li> <li>Put on appropriate personal protective Never use pressure to empty. Contain Always keep in containers made from</li> </ul>	han the occupational e used in areas from excluded. Electrical end always use earthing wear and clothing an me. No sparking tool oid the inhalation of c is mixture. Avoid inh be prohibited in area re equipment (see Se ner is not a pressure	exposure limits. which all naked lights and quipment should be leads when transferring ad floors should be of the ls should be used. dust, particulates, spray or alation of dust from as where this material is ection 8).
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See Section 13 for additional waste treatment information.

### SECTION 7: Handling and storage

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.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

#### 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. Do not store above the following temperature: 35°C (95°F). Store in a dry, cool and wellventilated area. Keep away from heat and direct sunlight. 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 (in tonnes)

**Danger criteria** 

	Notification and MAPP threshold	Safety report threshold
P3a: Flammable aerosols containing flammable gases or flammable liquids	150	500

#### 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				
dimethyl ether	EH40/2005 WELs (United Kingdom (UK), 12/2011).				
	STEL: 958 mg/m <sup>3</sup> 15 minutes.				
	STEL: 500 ppm 15 minutes.				
	TWA: 766 mg/m <sup>3</sup> 8 hours.				
	TWA: 400 ppm 8 hours.				
xylene (mixture of isomeres)	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed				
	through skin.				
	STEL: 441 mg/m <sup>3</sup> 15 minutes.				
	STEL: 100 ppm 15 minutes.				
	TWA: 220 mg/m <sup>3</sup> 8 hours.				
	TWA: 50 ppm 8 hours.				
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed				
	through skin.				
	STEL: 560 mg/m <sup>3</sup> 15 minutes.				
	STEL: 150 ppm 15 minutes.				
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### SECTION 8: Exposure controls/personal protection

	TWA: 375 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 552 mg/m <sup>3</sup> 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 441 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
toluene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 191 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.

procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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
1-methoxy-2-propanol	DNEL	Short term Inhalation	553.5 mg/ m³	Workers	Local
	DNEL	Long term Inhalation	369 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	50.6 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	43.9 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Dermal	18.1 mg/ kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	3.3 mg/kg bw/day	Consumers	Systemic

#### PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
1-methoxy-2-propanol	Marine water sediment	10 mg/l 41.6 mg/l 4.17 mg/l 2.47 mg/l 100 mg/l	

#### 8.2 Exposure controls

Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

#### Individual protection measures

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### **SECTION 8: Exposure controls/personal protection**

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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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: safety glasses with side-shields (EN 166).

### Skin protection

#### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves	:	For prolonged or repeated handling, use the following type of gloves:
		Recommended: > 8 hours (breakthrough time): nitrile rubber (0.5mm). The recommendation for the type or types of glove to use when handling this
		product is based on information from the following source:
		EN 374-3 : 2003 The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. Recommended: Overalls buttoned to the neck and wrist. (EN 1149-1)
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	:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapour (Type AX) and particulate filter (EN 140).
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

9.1 Information on basic physica	l a	nd chemical properties
<u>Appearance</u>		
Physical state	1	Liquid. [Aerosol.]
Colour	1	Various
Odour	:	Hydrocarbon.
Odour threshold	:	Not available.
рН	:	Not available.
Melting point/freezing point	:	Not available.
Initial boiling point and boiling range	1	Not available.
Flash point	:	Closed cup: -40°C
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. Slightly flammable in the presence of the following materials or conditions: shocks and mechanical impacts. In use, may form flammable/explosive vapour-air mixture. Vapour may travel a considerable distance to source of ignition and flash back.
Upper/lower flammability or explosive limits	:	Lower: 3% Upper: 18%
Vapour pressure	:	420 kPa [room temperature]
Vapour density	:	>1 [Air = 1]
Relative density	:	0.88 to 0.98
Solubility(ies)	:	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	350°C
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
Explosive properties	:	Extremely explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Container explosion may occur under fire conditions or when heated. Bursting aerosol containers may be propelled from a fire at high speed.
Oxidising properties	:	Not available.
9.2 Other information		
Aerosol product		
Type of aerosol		Spray
Heat of combustion	÷	19.38 kJ/g
No additional information.		

No additional information.

SECTION 10: Stabil	ity and reactivity
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10.3 Possibility of hazardous reactions	:	Under norm	al conditions of storage	e and use, hazardous re	eactions will n	ot occur.	
10.2 Chemical stability	:	Stable unde	er recommended storaç	ge and handling conditio	ons (see Secti	on 7).	
10.1 Reactivity	:	No specific	test data related to rea	ctivity available for this p	product or its	ingredier	ıts.

### **SECTION 10: Stability and reactivity**

10.4 Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
10.5 Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO2 and smoke can be generated.

### **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. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

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

Ingestion may cause nausea, diarrhea and vomiting.

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.

Product/ingredient name	Result	Species	Dose	Exposure
dimethyl ether	LC50 Inhalation Gas.	Mouse	386 ppm	0.5 hours
-	LC50 Inhalation Gas.	Rat	308000 mg/m <sup>3</sup>	1 hours
	LC50 Inhalation Gas.	Rat	164000 ppm	4 hours
	LC50 Inhalation Vapour	Rat	309 g/m³	4 hours
xylene (mixture of isomeres)	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	55000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	50000 mg/m <sup>3</sup>	2 hours
	LCLo Inhalation Vapour	Rat	4000 ppm	4 hours
	LD50 Oral	Rat	3500 mg/kg	-
1-isopropyl-2,	LC50 Inhalation Vapour	Rat	>5.3 mg/l	6 hours
2-dimethyltrimethylene				
diisobutyrate				
	LD50 Dermal	Guinea pig	>18900 mg/kg	-
	LD50 Oral	Mouse	>6400 mg/kg	-
	LD50 Oral	Rat	>9600 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	Based on available data, th		-	4 110013
<u>cute toxicity estimates</u>				

#### Acute toxicity

Not available.

#### Irritation/Corrosion

### **SECTION 11: Toxicological information**

SECTION 11: Toxicol	-			<u> </u>	
Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene (mixture of isomeres)	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
	Skin - Mild irritant	Rat	_	milligrams 8 hours 60	_
				microliters	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				milligrams	
1 mothowy 2 propagal	Skin - Moderate irritant	Rabbit Rabbit	-	100 Percent 24 hours 500	-
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	milligrams	-
	Skin - Mild irritant	Rabbit	-	500	-
				milligrams	
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500	-
	Skin - Mild irritant	Rabbit		milligrams 24 hours 15	
		Rabbit	-	milligrams	-
1-isopropyl-2,	Skin - Oedema	Rabbit	0	-	-
2-dimethyltrimethylene diisobutyrate					
	Eyes - Cornea opacity	Rabbit	0	-	-
	Skin - Mild irritant	Guinea pig	-	5 Grams	-
	Skin - Mild irritant	Human	-	504 hours 1	-
				Percent Intermittent	
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100	
				milligrams	
	Eyes - Mild irritant	Rabbit	-	870 Miero grono	-
	Eyes - Severe irritant	Rabbit	_	Micrograms 24 hours 2	_
		T CODDIC		milligrams	
	Skin - Mild irritant	Pig	-	24 hours 250	-
				microliters	
	Skin - Mild irritant	Rabbit	-	435 milligrams	-
	Skin - Moderate irritant	Rabbit	_	24 hours 20	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	500	-
				milligrams	
Conclusion/Summary					
Skin	: Causes skin irritation.				
Eyes	: Causes serious eye irritatio	n.			
Respiratory	: May cause respiratory irrita repeated exposure if inhale		damage t	o organs throug	gh prolonged o
<u>Sensitisation</u>					
Conclusion/Summary					
Skin	: Based on available data, th	e classification o	riteria are	not met	
	: Based on available data, th				
Respiratory			ancia ale	not met.	
Mutagenicity	Deceder 1111 14 1	I	-14	and a f	
Conclusion/Summary	: Based on available data, th	e classification c	riteria are	e not met.	
<b>Carcinogenicity</b>					
Conclusion/Summary	: Based on available data, th	e classification c	riteria are	e not met.	
Reproductive toxicity					
Conclusion/Summary	: Based on available data, th	e classification c	riteria are	e not met.	
Teratogenicity					

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

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### **SECTION 11: Toxicological information**

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene (mixture of isomeres)	Category 3	Not applicable.	Respiratory tract irritation
1-methoxy-2-propanol toluene	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene (mixture of isomeres) ethylbenzene toluene	Category 2	Not determined	Not determined hearing organs Not determined

**Aspiration hazard** 

Product/ingredient name	Result
xylene (mixture of isomeres)	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

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.

Product/ingredient name	Result	Species	Exposure
1-methoxy-2-propanol	Acute EC50 >1000 mg/l	Algae - Selenastrum	7 days
		capricomutum	
	Acute LC50 23300 mg/l	Daphnia spec.	96 hours
	Acute LC50 20800 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 9.46 to 6530 µg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 4.4 to 2970 µg/l Fresh water	Daphnia spec Daphnia magna - Neonate	48 hours
	Acute LC50 13.7 to 8780 µg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute LC50 5200 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 11 to 9090 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
toluene	Acute EC50 433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 12.5 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 6 mg/l Fresh water	Daphnia spec Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 15.5 ppm Marine water	Crustaceans - Palaemonetes	48 hours
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# **SECTION 12: Ecological information**

	Acute LC50 5.5 mg/l Fresh water	pugio - Adult Fish - Oncorhynchus kisutch - Frv	96 hours
	Chronic NOEC 500 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia spec Daphnia magna	21 days
Conclusion/Summary	: Based on available data, the classific	ation criteria are not met.	

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
xylene (mixture of isomeres) 1-methoxy-2-propanol	- OECD 301E -	90 % - Readily - 5 days 96 % - Readily - 28 days >90 % - Readily - 5 days	- - 1.95 gO₂/g ThOD	- -
1-isopropyl-2, 2-dimethyltrimethylene diisobutyrate	OECD 301C OECD 301F	88 to 92 % - Readily - 28 days >80 % - Readily - 28 days		-

**Conclusion/Summary** : Based on available data, the classification criteria are not met. This product has not been tested for biodegradation.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene (mixture of isomeres) 1-methoxy-2-propanol ethylbenzene 1-isopropyl-2, 2-dimethyltrimethylene diisobutyrate	- Fresh water <28 days, 5 to 25°C - -		Readily Readily Readily Readily

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential	
dimethyl ether	0,1	-	low	
xylene (mixture of isomeres)	3,16	-	low	
1-methoxy-2-propanol	-0,49	<100	low	
ethylbenzene	3,2	-	low	
1-isopropyl-2,	4,1	-	high	
2-dimethyltrimethylene				
diisobutyrate				
toluene	2,6	8,317637711	low	

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

12.5 Results of PBT a	nd vPvB assessment
PBT	: Not applicable.
vPvB	: Not applicable.

**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.

#### 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.
Hazardous waste	1	Yes.
Disposal considerations	:	Do not allow to enter drains or watercourses. 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.

#### European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
20 01 27*	paint, inks, adhesives and resins containing dangerous substances
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.
Disposal considerations	<ul> <li>Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Not emptied containers are hazardous waste.</li> </ul>
Special precautions	: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN 1950	UN1950	UN 1950	UN 1950
14.2 UN proper shipping name	AEROSOLS, Flammable [Limited quantity]	AEROSOLS, Flammable [Limited quantity]	AEROSOLS, Flammable [Limited quantity]	AEROSOLS, Flammable
14.3 Transport hazard class(es)	2	2	2.1	2.1
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
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# **SECTION 14: Transport information**

Additional	Limited guantity:	Emergency	Passenger and
information	LQ2	schedules (EmS):	Cargo Aircraft
		F-D + S-U	Quantity limitation: 75
	Remarks:		kg
	$(\leq 1L:)$ Limited		Packaging
	Quantity - ADR/IMDG	Remarks:	instructions: 203
	3.4	Limited Quantity -	Cargo Aircraft Only
		ADR/IMDG 3.4	Quantity limitation:
	ADR Tunnel code: (D)		150 kg
			Packaging
			instructions: 203
			Limited Quantities -
			Passenger Aircraft
			Quantity limitation: 30
			kg
			Packaging
			instructions: Y 203

14.6 Special precautions for	:	Transport within user's premises: always transport in closed containers that are
user		upright and secure. Ensure that persons transporting the product know what to do in
		the event of an accident or spillage.

# **SECTION 15: Regulatory information**

5.1 Safety, health and enviro	onmental regulation	s/legislation specific	for the substance o	r mixture
EU Regulation (EC) No. 190	<u>7/2006 (REACH)</u>			
Annex XIV - List of substan	nces subject to auth	orisation		
Annex XIV				
None of the components a	e listed.			
Substances of very high	<u>concern</u>			
None of the components a	e listed.			
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.			
<u> Other EU regulations</u>				
VOC for Ready-for-Use Mixture	: Not available.			
Europe inventory	: All components a	re listed or exempted.		
Priority List Chemicals (793/93/EEC)	: Listed			
Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
toluene	-	-	Repr. 2, H361d (Unborn child)	-
Aerosol dispensers	:	1	1	1

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# **SECTION 15: Regulatory information**



Extremely flammable

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

Danger criteria	
Category	
P3a: Flammable aeros	ols containing flammable gases or flammable liquids
National regulations	
Industrial use	: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.
References	<ul> <li>EH40/2005 Workplace exposure limits Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830</li> </ul>
International regulations	
Chemical Weapon Conve	ention List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol (Anne Not listed.	<u>xes A, B, C, E)</u>
	on Persistent Organic Pollutants
Rotterdam Convention of Not listed.	on Prior Inform Consent (PIC)
UNECE Aarhus Protocol Not listed.	on POPs and Heavy Metals
<b>CN code</b> : 3208 10	90
International lists	
<u>National inventory</u> Australia	: Not determined.
Canada	: Not determined.
China	: All components are listed or exempted.
Japan	: Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea Taiwan	<ul> <li>Not determined.</li> <li>Not determined.</li> </ul>
United States	Not determined.
15.2 Chemical Safety Assessment	: No Chemical Safety Assessment has been carried out.

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

\_ Indicates information that has changed from previously issued version.

	<b>o i j</b>
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
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Aerosol 1, H222, H229	Expert judgment
Skin Irrit. 2, H315	Expert judgment
Eye Irrit. 2, H319	Expert judgment
STOT SE 3, H335	Expert judgment
STOT RE 2, H373	Expert judgment

#### Full text of H-phrases referred to in sections 2 and 3

The life of the former design of the second s	[	
Full text of abbreviated H :	H220	Extremely flammable gas.
statements	H222, H229	Extremely flammable aerosol. Pressurized container:
		may burst if heated.
	H225	Highly flammable liquid and vapour.
	H226	Flammable liquid and vapour.
	H304	May be fatal if swallowed and enters airways.
	H312 (dermal)	Harmful in contact with skin.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H332 (inhalation)	Harmful if inhaled.
	H335	May cause respiratory irritation.
	H336	May cause drowsiness or dizziness.
	H361d (Unborn child)	Suspected of damaging the unborn child.
	H373	May cause damage to organs through prolonged or
		repeated exposure.
	H373 (hearing organs)	May cause damage to organs through prolonged or
		repeated exposure. (hearing organs)
	H412	Harmful to aquatic life with long lasting effects.
Full text of classifications :		
[CLP/GHS]	Acute Tox. 4, H312	ACUTE TOXICITY (dermal) - Category 4
	Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
	Aerosol 1, H222, H229	AEROSOLS - Category 1
	Aquatic Chronic 3, H412	
	Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
	Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category
	Flam. Gas 1, H220	FLAMMABLE GASES - Category 1
	Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
	Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
	Repr. 2, H361d (Unborn	TOXIC TO REPRODUCTION (Unborn child) - Category 2
	child)	
	Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
	STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
	STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
	(hearing organs)	EXPOSURE) (hearing organs) - Category 2
	STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) - Category 3
	STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
	,	EXPOSURE) (Narcotic effects) - Category 3
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#### **SECTION 16: Other information**

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#### Notice to reader

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.