

SAFETY DATA SHEET

9601 Rust-O-Thane - Activator

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

1.1 Product identifier

Product name : 9601 Rust-O-Thane - Activator

Product description : Hardener.

Product type : Liquid.

UFI : 3GY1-H0R8-Q00Q-FQA1

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

	Identified uses	
Industrial use Professional use		

Uses advised against	Reason		
Consumer use	Product is not intended for consumer use.		

1.3 Details of the supplier of the safety data sheet

RUST-OLEUM EUROPE

Martin Mathys NV, Kolenbergstraat 23, B-3545 Zelem, Belgium

Telephone no.: +32 (0) 13 460 200 Fax no.: +32 (0) 13 460 201

Tor Coatings Limited

Unit 21, White Rose Way, Follingsby Park, Gateshead, Tyne & Wear, NE10 8YX United Kingdom

Telephone no.: +44 (0) 191 4106611 Fax no.: +44 (0) 191 4920125 enquiries@tor-coatings.com

e-mail address of person :

responsible for this SDS

: rpmeurohas@rustoleum.eu

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number Belgium : Poison centre: +32(0)70 245 245

Telephone number Bulgaria : +359 2 9154 409 Telephone number Croatia : +385 1 2348 342

Telephone number Cyprus : 1401

Telephone number Czech Republic : Toxikologické informační středisko: Na Bojišti 1, 120 00 Praha 2, tel.

+420 224 919 293 nebo +420 224 915 402 (nepřetržitá lékařská služba).

Telephone number Denmark : Contact the "Giftlinien" on tel. No. 82 12 12 12 (open 24 hours a day).

See point 4 on first aid.

Telephone number Estonia : 16662

Telephone number Finland : 0800 147 111

Telephone number France : ORFILA (INRS): +33 (0)1 45 42 59 59 (24/7)

Telephone number Greece : Emergency Telephone Poison Center Nos. Children Aglaia Kyriakou

+30 210 7793777

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Telephone number Hungary : Health Toxicology Information Service (ETTSZ)

(+ 36-80) 201-199 (in case of emergency 0-24 h, can be called free of

charge).

Telephone number Iceland : +354 5432222
Telephone number Ireland : 809 2166

Available 8am to 10pm 7 days per week

Telephone number Italy : 800183459

Telephone number Latvia : Toxicology and sepsis clinics

Poisoning and Drug Information Center, Hipokrāta Street 2, Riga, Latvia, LV-1038,

Phone number: +371 67042473

Telephone number Lithuania : Poison Information Office 24 hours a day:

Phone: +370 (5) 2362052 (www.apsinuodijau.lt/)

Telephone number Luxembourg : Poison centre: +32(0)70 245 245

Telephone number Malta : 112

Telephone number Netherlands : 088-755 8000 Telephone number Norway : +47 22 59 13 00

Telephone number Portugal : 112

24/7, free call 800 250 250

Telephone number Romania : +40 21 318 36 06 (Monday - Friday between 8:00 -15:00, local hour)

Telephone number Slovakia : NATIONAL TOXICOLOGICAL INFORMATION CENTER - Non-stop

24-hour consultation in case of acute intoxication

+421 2 5477 4166

Telephone number Spain : 915 620 420

Telephone number Sweden : Poison Information Center: 112

Telephone number Switzerland : Swiss Toxicological Information Centre (24 h) : 145

Telephone number United Kingdom: : 809 2166

Northern Ireland Available 8am to 10pm 7 days per week

Supplier

Telephone number Austria : +43 13649237 Telephone number Belgium : +32 28083237 Telephone number Bulgaria : +359 32570104 Telephone number Croatia : +385 17776920 Telephone number Czech Republic : +420 228880039 Telephone number Denmark : +45 69918573 Telephone number Estonia : +372 6681294 Telephone number Finland : +358 942419014 Telephone number France : +33 975181407

Telephone number Germany : +49 69643508409 / 0800-181-7059

Telephone number Greece : +30 2111768478
Telephone number Hungary : +36 18088425
Telephone number Iceland : +354 539 0655
Telephone number Ireland : +353 19014670

Telephone number Italy : +39 0245557031 / 800-789-767

Telephone number Latvia : +371 66165504
Telephone number Lithuania : +370 52140238
Telephone number Luxembourg : 352-20202416
Telephone number Netherlands : +31 858880596
Telephone number Poland : +48 223988029
Telephone number Portugal : +351 308801773

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 Telephone number Romania
 : +40 37 6300026

 Telephone number Slovakia
 : +421 233057972

 Telephone number Slovenia
 : +38 618888016

 Telephone number Spain
 : +34 931768545

 Telephone number Sweden
 : +46 852503403

 Telephone number Switzerland
 : +41 435082011

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]

Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336 Aquatic Chronic 3, H412

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 : H226 - Flammable liquid and vapour.

H317 - May cause an allergic skin reaction.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

General : Not applicable.

Prevention : P280 - Wear protective gloves.

P284 - In case of inadequate ventilation wear respiratory protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P271 - Use only outdoors or in a well-ventilated area.

Response : P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water.

Storage : P403 + P235 - Store in a well-ventilated place. Keep cool.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Hazardous ingredients : Hexamethylene diisocyanate, oligomers

2-methoxy-1-methylethyl acetate

n-butyl acetate

hexamethylene-di-isocyanate

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SECTION 2: Hazards identification

Supplemental label

: EUH204 - Contains isocyanates. May produce an allergic reaction.

elements

Supplemental label elements : Detergents -Regulation (EC) No

907/2006

Annex XVII - Restrictions

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

Tactile warning of danger: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

Other hazards which do

not result in classification

: None known.

: Not applicable.

: Not applicable.

: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Europe

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Hexamethylene diisocyanate, oligomers	REACH #: 01-2119485796-17 CAS: 28182-81-2 List #: 931-274-8	≥75 - ≤90	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Inhalation (dusts and mists)] = 1,5 mg/l	[1]
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]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤5	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
hydrocarbons, aromatic, C9	EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≤5	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]

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9601 Rust-O-Thane - Activator SECTION 3: Composition/information on ingredients hexamethylene-di-REACH #: <0.1 Acute Tox. 4. H302 ATE [Oral] = 500 [1] 01-2119457571-37 Acute Tox. 1, H330 isocyanate mg/kg Skin Irrit. 2, H315 ATE [Inhalation EC: 212-485-8 CAS: 822-06-0 Eve Irrit. 2. H319 (vapours)] = 0.05Index: 615-011-00-1 Resp. Sens. 1, H334 mg/l Skin Sens. 1, H317 Resp. Sens. 1, **STOT SE 3, H335** H334: C ≥ 0,5% Skin Sens. 1, H317: C ≥ 0.5% See Section 16 for the full text of the H

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.

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

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

List numbers have no legal significance.

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.

statements declared

above.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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SECTION 4: First aid measures

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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SECTION 5: Firefighting measures

Additional information

Reacts violently when water is added to this product. Containers may rupture from pressure build-up.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.

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.

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. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

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SECTION 7: Handling and storage

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

Do not store above the following temperature: 35°C (95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : 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 / Biological exposure indices

Europe

Product/ingredient name	Exposure limit values	
n-butyl acetate	EU OEL (Europe, 1/2022) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm.	

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Hexamethylene diisocyanate,	DNEL	Short term	1 mg/m³	Workers	Local
oligomers	DNEL	Inhalation Long term	0,5 mg/m³	Workers	Local
2-methoxy-1-methylethyl acetate	DNEL	Inhalation Long term Inhalation	275 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	153,5 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	54,8 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Oral	1,67 mg/m³		Systemic
	DNEL	Long term Oral	1,67 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	33 mg/m³	General population	Local
	DNEL	Long term Inhalation	33 mg/m³	General population	Systemic
	DNEL	Long term Dermal	54,8 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	153,5 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	275 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	550 mg/m³	Workers	Local
	DNEL	Long term Dermal Long term Dermal	796 mg/kg 320 mg/kg	Workers General population	Systemic Systemic
	DNEL	Long term Oral	36 mg/kg	General population	Systemic
n-butyl acetate	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	3,4 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Inhalation	960 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	960 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	480 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	480 mg/m³	Workers	Local
	DNEL	Short term Inhalation	859,7 mg/ m³	General population [Consumers]	Systemic
	DNEL	Short term Inhalation	859,7 mg/ m³	General population [Consumers]	Local
	DNEL	Long term Inhalation	102,34 mg/ m³	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	102,34 mg/ m³	General population [Consumers]	Local
	DNEL	Long term Dermal	3,4 mg/kg bw/day	General population	Systemic
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				[Consumers]		
hydrocarbons, aromatic, C9	DNEL	Long term Dermal	25 mg/kg	Workers	Systemic	
	DNEL	Long term Inhalation	150 mg/m ³	Workers	Systemic	
	DNEL	Long term Dermal	11 mg/kg	General population	Systemic	
	DNEL	Long term Inhalation	32 mg/m ³	General population	Systemic	
	DNEL	Long term Oral	11 mg/kg	General population	Systemic	
hexamethylene-di-isocyanate	DNEL	Short term Inhalation	1 mg/m³	Workers	Local	
	DNEL	Long term Inhalation	0,5 mg/m³	Workers	Local	
	DNEL	Long term Inhalation	0,35 mg/m ³	Workers	Local	
	DNEL	Short term Inhalation	0,7 mg/m ³	Workers	Local	

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
Hexamethylene diisocyanate, oligomers	Fresh water	0,199 mg/l	-
	Marine	0,0199 mg/l	-
	Fresh water sediment	44551 mg/kg dwt	-
	Marine water sediment	4455 mg/kg dwt	-
	Soil	8884 mg/kg dwt	-
	Sewage Treatment Plant	100 mg/l	-
2-methoxy-1-methylethyl acetate	Fresh water	0,635 mg/l	-
	Fresh water sediment	3,29 mg/kg	-
	Marine water sediment	0,329 mg/kg	-
	Soil	0,29 mg/kg	-
	Sewage Treatment	100 mg/l	-
	Plant		
	Marine water	0,0635 mg/l	-
n-butyl acetate	Fresh water	0,18 mg/l	-
	Marine	0,018 mg/l	-
	Fresh water sediment	0,981 mg/kg	-
	Marine water sediment	0,0981 mg/kg	-
	Soil	0,0903 mg/kg	-
	Sewage Treatment Plant	35,6 mg/l	-
hexamethylene-di-isocyanate	Fresh water	0,127 mg/l	-
	Marine	0,0127 mg/l	-
	Sediment	266700 mg/kg dwt	-
	Soil	53182 mg/kg dwt	-
	Sewage Treatment Plant	38,28 mg/l	-
	Fresh water	>0,05 mg/l	-
	Fresh water sediment	>1,33 mg/kg	-
	Marine water	>0,005 mg/l	-
	Marine water sediment	>0,133 mg/kg	-
	Sewage Treatment Plant	55,6 mg/l	-
	Soil	>0,066 mg/kg	-

8.2 Exposure controls

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SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Use eye protection according to EN 166. 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

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.

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): polyvinyl alcohol (PVA) or neoprene neoprene (0.65mm)

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. 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: 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

: 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. Recommended: organic vapour (Type AX) and particulate filter (EN 140).

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SECTION 8: Exposure controls/personal protection

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Physical state : Liquid. [Oily liquid.]

Colour : Yellow.

Odour : Solvent-like

Odour threshold : Not available.

Melting point/freezing point

Initial boiling point and

boiling range

: Not available.

: 126°C (258,8°F) [Literature]

Flammability (solid, gas) : Flammable in the presence of the following materials or conditions: open flames,

sparks and static discharge and heat.

Vapour may travel a considerable distance to source of ignition and flash back.

Emits toxic fumes when heated to decomposition.

Lower and upper explosion

limit

pН

: Lower: 0,6% Upper: 7,5%

Flash point : Closed cup: 45°C (113°F) [Literature]

Auto-ignition temperature

: 333°C (631,4°F) [Literature]

Decomposition temperature

Not available.Not applicable.

pH : Justification

Product is non-soluble (in water).

Viscosity

: Dynamic (room temperature): 250 mPa·s [ISO EN BS DIN 3219]

Kinematic (room temperature): 227 mm²/s [calculated.]

Kinematic (40°C): >20,5 mm²/s [calculated.]

Solubility(ies)

Media	Result
cold water	Not soluble
hot water	Not soluble

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

: 0,53 kPa (3,9753 mm Hg) [calculated.]

Evaporation rate : Not available.

Relative density : Not available.

Density : 1,08 to 1,1 g/cm³ [20°C (68°F)] [DIN 53217]

Vapour density : Not available.

Explosive properties : Slightly explosive in the presence of the following materials or conditions:

moisture.

Reacts violently when water is added to this product. Containers may rupture

from pressure build-up.

Oxidising properties

Particle characteristics

Median particle size

: Not applicable.

: Not available.

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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 may not be stable under certain conditions of storage or use. See "Possibility of Hazardous Reactions" for further information.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials

: Reactive or incompatible with the following materials: oxidising materials

10.6 Hazardous decomposition products

 Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene	LC50 Inhalation Dusts and	Rat	18500 mg/m³	1 hours
diisocyanate, oligomers	mists			
	LC50 Inhalation Dusts and	Rat - Female	390 mg/m ³	4 hours
	mists			
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
2-methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	-
acetate				
	LD50 Oral	Rat	>5000 mg/kg	-
	NOEL Inhalation Dusts and	Rat	8100 mg/m ³	4 hours
	mists			
n-butyl acetate	LC50 Inhalation Dusts and	Rat - Male,	23,4 mg/l	4 hours
	mists	Female		
	LC50 Inhalation Vapour	Rat	>21 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	9700 mg/m ³	4 hours
	LD50 Oral	Rat	14000 mg/kg	-
hydrocarbons, aromatic, C9	LD50 Oral	Mouse	8400 mg/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
hexamethylene-di-	LC50 Inhalation Dusts and	Rat	0,124 mg/m ³	4 hours
isocyanate	mists			
	LCLo Inhalation Dusts and	Rat	60 mg/m³	4 hours
	mists			
	LD50 Dermal	Rabbit	>7000 mg/kg	-

Conclusion/Summary

: Harmful if inhaled.

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Acute toxicity estimates

SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
9601 Rust-O-Thane - Activator	N/A	N/A	N/A	N/A	2,0
Hexamethylene diisocyanate, oligomers	N/A	N/A	N/A	N/A	1,5
n-butyl acetate	N/A	N/A	N/A	N/A	23,4
hydrocarbons, aromatic, C9	8400	N/A	N/A	N/A	N/A
hexamethylene-di-isocyanate	500	N/A	N/A	0,05	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hexamethylene diisocyanate, oligomers	Eyes - Cornea opacity	Rabbit	1	-	-
	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
	Skin - Oedema	Rabbit	1	4 hours	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
hydrocarbons, aromatic, C9	Eyes - Mild irritant	Rabbit	-	24 hours 100 microliters	-
hexamethylene-di-isocyanate	Eyes - Redness of the conjunctivae	Rabbit	3	-	-
	Skin - Erythema/Eschar	Rabbit	3	-	-

Skin

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

Eyes

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

Respiratory

: May cause respiratory irritation. May cause drowsiness or dizziness.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Hexamethylene diisocyanate, oligomers	Respiratory	Guinea pig	Not sensitizing
	skin skin	Guinea pig Mouse	Sensitising Sensitising
hexamethylene-di- isocyanate	Respiratory	Guinea pig Guinea pig	Sensitising Sensitising

Skin

: May cause an allergic skin reaction.

Respiratory

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

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Hexamethylene diisocyanate, oligomers	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 406 Skin sensitisation	Subject: Mammalian-Animal	Positive
	OECD 405 Acute eye irritation / corrosion	Subject: Mammalian-Animal	Negative
hydrocarbons, aromatic, C9	OECD 471	Subject: Bacteria	Negative
hexamethylene-di-isocyanate	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative

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SECTION 11: Toxicological information

Conclusion/Summary

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

Carcinogenicity

Conclusion/Summary

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

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
hydrocarbons, aromatic, C9	-	-	•	unspecified	Route of exposure unreported	-

Conclusion/Summary

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

Teratogenicity

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

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Hexamethylene diisocyanate, oligomers	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
n-butyl acetate	Category 3	-	Narcotic effects
hydrocarbons, aromatic, C9	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
hexamethylene-di-isocyanate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
hydrocarbons, aromatic, C9	ASPIRATION HAZARD - Category 1

Information on likely routes

of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May

cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact: May cause an allergic skin reaction.

Ingestion: Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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SECTION 11: Toxicological information

Skin contact : Adverse symptoms may include the following:

> irritation redness

: No specific data. Ingestion

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

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene diisocyanate, oligomers	Sub-chronic LC50 Inhalation Dusts and mists	Rat	14,7 mg/m³	6 hours; 5 days per week Intermittent
	Sub-acute LC50 Inhalation Dusts and mists	Rat	89,9 mg/m³	6 hours; 5 days per week Intermittent
	Sub-acute LCLo Inhalation Dusts and mists	Rat	4,3 mg/m³	6 hours; 5 days per week Intermittent
hexamethylene-di- isocyanate	Chronic LCLo Inhalation Vapour	Rat	0,025 p.p.m.	30 days; 6 hours per day Intermittent

Conclusion/Summary

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

General

Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. Reproductive toxicity : 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

Product/ingredient name	Result	Species	Exposure
Hexamethylene diisocyanate, oligomers	Acute EC50 3828 mg/l	Bacteria	3 hours
, , ,	Acute EC50 >100 mg/l	Daphnia spec.	48 hours
	Acute IC50 >1000 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Acute LC50 >100 mg/l	Fish	96 hours
2-methoxy-1-methylethyl acetate	Acute LC50 130 mg/I Fresh water	Fish	96 hours
	Acute NOEC >1000 mg/l	Algae	96 hours

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	Chronic LC10 100 mg/l	Daphnia spec.	21 days
	Chronic NOEC 47,5 mg/l Fresh water	Fish	14 days
n-butyl acetate	Acute EC50 397 mg/l Fresh water	Algae - Desmodesmus	72 hours
	_	subspicatus	
	Acute EC50 44 mg/l Fresh water	Daphnia spec.	48 hours
	Acute LC50 18 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 23 mg/l Fresh water	Daphnia spec.	21 days
hexamethylene-di-isocyanate	Acute EC50 >77,4 mg/l	Algae	72 hours
	Acute EC50 842 mg/l	Bacteria	3 hours

Conclusion/Summary

: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Hexamethylene diisocyanate, oligomers	OECD 301C	1 % - Not readily - 28 days	-	-
2-methoxy-1-methylethyl acetate	OECD 302B	100 % - Inherent - 8 days	-	-
n-butyl acetate	-	90 % - Readily - 28 days	-	-
_	OECD 301D	83 % - Readily - 28 days	-	-
	-	80 % - 5 days	-	-
hexamethylene-di-isocyanate	OECD 301F	42 % - 10 days	-	-
	EU 301F Ready	42 % - 28 days	-	-
	Biodegradability -			
	Manometric			
	Respirometry			
	Test			

Conclusion/Summary

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hexamethylene diisocyanate, oligomers 2-methoxy-1-methylethyl	Fresh water 0,32 days, 23°C	50%; 0.43 day(s) -	Not readily Readily
acetate n-butyl acetate hydrocarbons, aromatic, C9 hexamethylene-di-isocyanate	- - -	- - -	Readily Readily Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Hexamethylene diisocyanate, oligomers	5,54	367,7	Low
2-methoxy-1-methylethyl acetate	1,2	-	Low
n-butyl acetate	2,3	10	Low
hydrocarbons, aromatic, C9	3.7 to 4.5	-	High
hexamethylene-di-isocyanate	0,02	57,63	Low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility

: This product is not likely to volatilise rapidly into the air because of its low vapour pressure.

12.5 Results of PBT and vPvB assessment

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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

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

: Yes.

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	Paint	Paint	Paint	Paint
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	No.	No.	No.

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SECTION 14: Transport information

Additional information	Hazard identification number 30 Limited quantity 5L Special provisions 163, 367, 650 Tunnel code (D/E)	Special provisions 163, 367, 650 Remarks : < 5L: Limited Quantity	Emergency schedules F-E, S-E Special provisions 163, 223, 367, 955 Remarks : ≤ 5L: Limited Quantity - IMDG 3.4	Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344.
				0 0

user

14.6 Special precautions for : 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.

14.7 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

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]
9601 Rust-O-Thane - Activator	≥90	3

Labelling : Not applicable.

Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the

product label and/or technical data sheet for further information.

VOC for Ready-for-Use

Mixture

: 2004/42/EC - IIA/j: 500g/l (2010). <= 499g/l VOC.

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

Air

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

Water

Explosive precursors : Not applicable.

EU - Ozone depleting substances

Not listed.

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SECTION 15: Regulatory information

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

Not listed.

Persistent Organic Pollutants (850/2004/EC)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P₅c

National regulations

Austria

VbF class : A II

Very dangerous flammable liquid.

Storage code

Classification, packaging

and labelling

: Not available.

Limitation of the use of

organic solvents

: Permitted.

Waste catalogue

: 55903

: LGK 3

References

: Federal Law Gazette Nr. 240/1991 - Regulation on Combustible liquids - Warning

Classes

Ministry of the Economy and Labor 2003 - GKV 2003 - Decree 429/2011

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Belgium

References

Royal Decree of 2 December 1993 concerning the protection of workers against the

risks related to exposure to carcinogens and mutagens at work

Royal Decree 374/2001, protection of the health and safety of workers from the risks

related to chemical agents at work

Royal Decree 396/2006, which establishes minimum health and safety requirements for the protection of workers from risk of exposure to asbestos at the workplace. Royal Decree of 17 May 2007, ammending the Royal Decree of 11 March 2002 relating to the protection of the health and the safety of workers against the risks related to chemical agents in the workplace, Belgium State Gazette 2007-2327 of 7 June 2007.

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Bulgaria

References : Ordinance No. 9 of 4 August 2006 on the protection of workers from the risks

related to exposure to asbestos at work

Ordinance No. 13 of 30 December 2003 on the protection of workers from the risks

related to exposure to chemical agents at work

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

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SECTION 15: Regulatory information

Croatia

References : Regulation about Maximum Exposure Limits of harmful substances in the

atmosphere of the working environment NN 92/93

Regulation about application of personal safety equipment NN 39/06

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Cyprus

References : -

Czech Republic

Storage code : III

References

Decree of the government no. 441/2004 Sb., which amends Decree of the government no. 178/2001 Sb., which implements the health and safety at work conditions, according to the Decree of the government no. 523/2002 Sb.

Decree of the government no. 194/2001 Sb., which implements the technical requirements for aerosol dispensersEC Regulation 1907/2006 (REACH), EC Regulation 1272/2008 (CLP), EC Regulation 648/2004 on detergents, Act No. 350/2011 Coll. on chemical substances and chemical mixtures, Act No. 185/2001 Coll. on waste, Decree No. 381/2001 Coll., Catalog of waste, Decree No. 383//2001 Coll., on details of waste

management, Act No. 258/2000 Coll. on public health, Government Regulation No. 361/2007 Coll., establishing the conditions for health protection at work, Act No. 201/2012 Coll., on air protection and related decrees, Act No. 477/2001 Coll. on packaging, Decree No. 48/1982 Coll., which establishes basic requirements to ensure the safety of work and technical equipment, communication No. 8/2013 Coll.

m.s. (ADR), notice No. 23/2013 Coll. (RID), Czech state standards

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Denmark

Product registration : 198257 number PCN

Fire class : II-1

MAL-code : 4-3

Protection based on MAL

According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 4-3

Application: When spraying in new* booths if the operator is outside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Air-supplied half mask and eye protection must be worn.

When using scraper or knife, brush, roller, etc, for pre- and post-treatments in

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cabins or booths of the existing* facility type, if the operator is inside the spray zone.

- Air-supplied half mask, coveralls and eye protection must be worn.

During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

- Air-supplied full mask and coveralls must be worn.

When spraying in existing* spray booths, if the operator is outside the spray zone.

- Air-supplied full mask, arm protectors and apron must be worn.

During non-atomising spraying in existing* facilities of the combined-cabin, spraycabin and spray-booth type where the operator is working inside the spray zone.

- Air-supplied full mask must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, coveralls and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

MAL-code for ready-foruse mixture

4-3

Protection based on MAL for ready-for-use mixture

According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 4-3

Application: When spraying in new* booths if the operator is outside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Air-supplied half mask and eye protection must be worn.

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SECTION 15: Regulatory information

When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone.

- Air-supplied half mask, coveralls and eye protection must be worn.

During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

- Air-supplied full mask and coveralls must be worn.

When spraying in existing* spray booths, if the operator is outside the spray zone.

- Air-supplied full mask, arm protectors and apron must be worn.

During non-atomising spraying in existing* facilities of the combined-cabin, spraycabin and spray-booth type where the operator is working inside the spray zone.

- Air-supplied full mask must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, coveralls and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

Low-boiling liquids **Restrictions on use**

: Not applicable.

Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

List of undesirable substances

: Not listed

Carcinogenic waste

: Not applicable.

Waste card number Waste group

: 03.21

Remark

: Directive of the Danish Labour Inspectorate on epoxies and isocyanates

References

: Executive Order no. 301 of 13 May 1993 "Executive order on the determination of

code numbers". (MAL code)

Executive Order no. 302 of 13 May 1993 "Executive Order on work with products with code numbers". (MAL code)

Executive Order no. 559 of 4 July 2002 "Executive Order on special duties for manufacturers, suppliers and importers etc. of substances and materials according to the law on the working environment".

Executive Order no. 908 of 27 September 2005 "Executive Order on measures for prevention of cancer risk when working with substances and materials".

Executive Order no. 239 of 6 April 2005 "Executive Order on young people's work". Danish Working Environment Authority Guidance No. C.0.1. of August 2007 "Trace limit value list for substances and materials".

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Executive Order no. 571 of 29 November 1984 "Executive Order on use of propellants and solvents in aerosol containers".

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Estonia

References : Regulation of the Estonian Government of 02.02.2000 No. 32 Occupational health

and occupational safety requirements for asbestos.

Regulation of the Estonian Government of 15.12.2005 No. 309 Occupational health and occupational safety requirements for carcinogenic and mutagenic substances. Regulation of the Estonian Government of 18.09.2001 No. 293 Occupational

exposure limits of chemicals.

Regulation of the Estonian Government of 20.03.2001 No. 105 Occupational health and occupational safety requirements for handling dangerous chemicals and

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Finland

NACE : Not available. **UC62** : Not available.

References : Regulation of the Ministry of Social Affairs and Health on occupational exposure limit

values 795/2007

Aerosol regulation amendment 805/1994

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

Regulation (EU) No. 2020/878

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RG 84

Directive 89/686/EEC

France

Social Security Code, : n-butyl acetate Articles L 461-1 to L 461-7 hydrocarbons, aromatic, C9

: Not available.

RG 84) hexamethylene-di-isocyanate **RG 62**

Classified installations for environmental

protection

Reinforced medical

surveillance

: Decree n ° 2012-135 of January 30, 2012 relating to the organization of

occupational medicine: applicable

Remark : Not available.

References : Tables of anticipated professional diseases according to article R461-3 of the labour

Labour code: Regulatory and recommended occupational exposure limits: Art.

R231-55 to Art. R231-55-3.

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

Regulation (EU) No. 2020/878

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Germany

Storage class (TRGS 510) : 3 **Hazardous incident ordinance**

This product is controlled under the Germany Hazardous Incident Ordinance.

Named substances

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Name	Reference number

Danger criteria

Category	Reference number
P5c	1.2.5.3

Hazard class for water

Technical instruction on air quality control (TA Luft)

: 3

Number [Class]	Description
5.2.5	Organic substances
5.2.5 [I]	Organic substances

AOX

: Not available.

References

: Decree No. 44/2000 (XII.27.) EüM of the Ministry of Health on detailed

arrangements for certain procedures, activities relating to dangerous substances

and dangerous preparations plus amendments

Decree No. 25/2000 (IX.30.) EüM of the Ministry of Health on chemical safety at

work plus amendments

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Greece

References

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

Hungary

References

: Regulation on the restrictions on the marketing and use of certain dangerous substances, preparations and articles according to the Chemicals Law

Technical Rules for Hazardous Substances (TRGS): Occupational Exposure Limits

(TRGS 900)
Technical Rules for Hazardous Substances (TRGS): Directory of

Technical Rules for Hazardous Substances (TRGS): Directory of carcinogenic, mutagenic and reprotoxic substances (TRGS 905)

First General Administrative Regulation Pertaining to the Federal Immission Control Act (Technical Instructions on Air Quality Control – TA Luft)

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

<u>Ireland</u>

References

: Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No. 619 of 2001)

Safety, Health and Welfare at Work (Carcinogens) Regulations 2001 (S.I. No. 78 of

Safety, Health and Welfare at Work (Carcinogens) Regulations 2001 (S.I. No. 78 of 2001)

Safety, Health and Welfare at Work (General Application) Regulations 2007 Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

<u>ltaly</u>

D.Lgs. 152/06

: Not determined.

References

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

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Latvia

References : Regulation of Cabinet of Ministers No. 325 of 15 May 2007 "Labour protection

requirements for contact with chemical substances in the workplace"

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Lithuania

References : Regulation about Maximum Exposure Limits of harmful substances in the

atmosphere of the working environment NN 92/93

Regulation about application of personal safety equipment NN 39/06

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Luxembourg

References : -

Malta

References : -

Netherlands

Water Discharge Policy

(ABM)

: A(3) Hazardous for aquatic organisms, may have long-term hazardous effects in

aquatic environment. Decontamination effort: A

Remark : Not available.

References : Water Discharge Policy (ABM)

Netherlands Emission Guidelines for Air (NeR)

List of carcinogenic substances and processes according to article 4.11 of the

Working Conditions Act; Health and Safety Act

List of mutagenic substances and processes according to article 4.11 of the

Working Conditions Act; Health and Safety Act

Non-limited list of reprotoxic substances (with additional registration requirement) according to article 4..2a(2) of the Working Conditions Act; Health and Safety Act Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Poland

References: Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Portugal

References: Occupational Health and Safety. Professional exposure limit values for chemical

agents (NP 1796 2007)

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Romania

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References

: Order 595-2002 approving technical Regulations regarding spray aerosol containers Governmental Decision 1218-2006 on establishing the minimum requirements of labour safety and health for ensuring the protection of workers against risks connected to the presence of chemical agents

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Slovakia

References : Government regulation no. 45/2002 Consolidated to 16 January 2002 on the

protection of health at work from chemical agents

Government Regulation 301/2007 on the protection of workers from risks

associated with exposure to carcinogenic and mutagenic factors

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Slovenia

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by References

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Spain

References : Royal Decree 374/2001, protection of the health and safety of workers from the risks

related to chemical agents at work

ROYAL DECREE 2549/1994. Regulation on aerosol dispensers

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

<u>Sweden</u>

Ordinance on Thermoset

Plastics

: Not applicable.

Thermoset plastic waste : Not available. : 080111* **Waste group** Flammable liquid class

(SRVFS 2005:10)

: 2b

References Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

International regulations

Stockholm Convention on Persistent Organic Pollutants

List name	Ingredient name	Status
Not listed.		

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

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List name	Ingredient name	Status
Not listed.		

CN code : 3909 50 90 90

Inventory list

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Eurasian Economic Union: Russian Federation inventory: Not determined.

Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.Republic of Korea: All components are listed or exempted.Taiwan: All components are listed or exempted.

Thailand : Not determined.

Turkey : All components are listed or exempted.

United States : Not determined.Viet Nam : Not determined.

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

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

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

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H332	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

Europe

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SECTION 16: Other information

Full text of abbreviated	Н
statements	

H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H330 Fatal if inhaled. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. May cause drowsiness or dizziness. H336 H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Acute Tox. 1 ACUTE TOXICITY - Category 1
Acute Tox. 4 ACUTE TOXICITY - Category 4
Aquatic LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Chronic 2

Aquatic LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Chronic 3

Asp. Tox. 1 ASPIRATION HAZARD - Category 1

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

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

Category 3

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Notice to reader

IMPORTANT NOTE: 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 information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

MANUFACTURER'S DISCLAIMER: the conditions, methods and factors affecting the handling, storage, application, use and disposal of the product are not under the control and knowledge of the manufacturer. Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.