



RUST-OLEUM®
— INDUSTRIAL —

SAFETY DATA SHEET

2300 Hard-Hat Marking Paint

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

1.1 Product identifier

Product name : 2300 Hard-Hat Marking Paint
Product description : Aerosol. Paint
Product type : Aerosol.
UFI : 3K20-A07X-M007-PHJS
Product code : ROI0160

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

Identified uses	
Consumer Industrial Professional	
Uses advised against	Reason
None identified.	-

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)

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

Telephone number Greece	: Emergency Telephone Poison Center Nos. Children Aglaia Kyriakou +30 210 7793777
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	: 01 809 2166 Available 8am to 10pm 7 days per week
Telephone number Italy	: 800183459
Telephone number Latvia	: State Fire and Rescue Service: 112. Ltd. "Riga Eastern Clinical University Hospital", Poisoning and Drug Information Center, Hipokrāta2, Riga, Latvia, LV-1038; open 24 hours a day, tel. +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 (Only for the purpose of informing medical personnel in case of acute intoxications)
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: Northern Ireland	: 01 809 2166 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

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

Telephone number Netherlands : +31 858880596
 Telephone number Poland : +48 223988029
 Telephone number Portugal : +351 308801773
 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]

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 :



Signal word : Danger

Hazard statements : H222, H229 - Extremely flammable aerosol. Pressurised container: may burst if heated.
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H335 - May cause respiratory irritation.
 H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

General : P103 - Read carefully and follow all instructions.
 P102 - Keep out of reach of children.
 P101 - If medical advice is needed, have product container or label at hand.

Prevention : P280 - Wear protective gloves. Wear eye or face protection.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 - Do not spray on an open flame or other ignition source.
 P271 - Use only outdoors or in a well-ventilated area.
 P260 - Do not breathe dust or mist.
 P251 - Do not pierce or burn, even after use.

Response : Not applicable.

Storage : 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.

SECTION 2: Hazards identification

Hazardous ingredients	: ☒ reaction mass of ethylbenzene and xylene xylene (mixture of isomeres)
Supplemental label elements	: ☒ Not applicable.
Supplemental label elements : Detergents - Regulation (EC) No 907/2006	: 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 requirements	
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Yes, 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.	
Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006.	: ☒ Not applicable
Other hazards which do not result in classification	: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture
Europe	

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
☒ Dimethyl ether	REACH #: 01-2119472128-37 EC: 204-065-8 CAS: 115-10-6 Index: 603-019-00-8	≥50 - ≤75	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	[2]
reaction mass of ethylbenzene and xylene	EC: 905-588-0	≥10 - ≤16	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
xylene (mixture of	REACH #:	≤8,2	Flam. Liq. 3, H226	ATE [Dermal] =	[1] [2]

SECTION 3: Composition/information on ingredients

isomeres)	01-2119488216-32 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 Aquatic Chronic 3, H412	1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
hydrocarbons, C10-C13, n-/iso-/ cyclo-alkanes, < 2% aromatics	REACH #: 01-2119457273-39 EC: 918-481-9	≤0,3	Asp. Tox. 1, H304 EUH066 See Section 16 for the full text of the H statements declared above.	-	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

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

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.

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.

Skin contact

- : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. 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 following exposure or if feeling unwell. 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.

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.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing

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 : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Extremely flammable aerosol. 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. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

5.3 Advice for firefighters

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

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

SECTION 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.

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. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert 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). Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. Empty containers retain product residue and can be hazardous.

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 away 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. Use appropriate containment to avoid environmental contamination. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria		
Category	Notification and MAPP threshold	Safety report threshold
P3a	150 tonnes	500 tonnes

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 / Biological exposure indices

Europe

Product/ingredient name	Exposure limit values
dimethyl ether	EU OEL (Europe, 1/2022) TWA 8 hours: 1000 ppm. TWA 8 hours: 1920 mg/m³.
xylene (mixture of isomeres)	EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.
ethylbenzene	EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³.
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Recommended by manufacturer (Europe, 2009) [hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics] TWA 8 hours: 1200 mg/m³ ((184 ppm)). Form: Vapour.

No exposure indices known.

SECTION 8: Exposure controls/personal protection

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

DNELs/DMELs

Product/ingredient name	Result	Value	Effects
dimethyl ether	DNEL - General population - Long term - Inhalation	471 mg/m³	Effects: Systemic
	DNEL - Workers - Long term - Inhalation	1894 mg/m³	Effects: Systemic
	DNEL - Workers - Short term - Inhalation	442 mg/m³	Effects: Local
	DNEL - Workers - Short term - Inhalation	442 mg/m³	Effects: Systemic
	DNEL - Workers - Long term - Inhalation	221 mg/m³	Effects: Local
	DNEL - Workers - Long term - Inhalation	221 mg/m³	Effects: Systemic
	DNEL - Workers - Long term - Dermal	212 mg/kg bw/day	Effects: Systemic
	DNEL - General population - Short term - Inhalation	260 mg/m³	Effects: Local
	DNEL - General population - Short term - Inhalation	260 mg/m³	Effects: Systemic
	DNEL - General population - Long term - Inhalation	65,3 mg/m³	Effects: Local
	DNEL - General population - Long term - Inhalation	65,3 mg/m³	Effects: Systemic
	DNEL - General population - Long term - Dermal	125 mg/kg bw/day	Effects: Systemic
	DNEL - General population - Long term - Oral	12,5 mg/kg bw/day	Effects: Systemic
	DNEL - Workers - Short term - Inhalation	289 mg/m³	Effects: Local
reaction mass of ethylbenzene and xylene	DNEL - Workers - Short term - Inhalation	289 mg/m³	Effects: Systemic
	DNEL - Workers - Long term - Inhalation	77 mg/m³	Effects: Systemic
	DNEL - Workers - Long term - Dermal	180 mg/m³	Effects: Systemic
xylene (mixture of isomeres)			

SECTION 8: Exposure controls/personal protection

ethylbenzene	DNEL - General population - Consumers - Short term - Inhalation	174 mg/m ³	<u>Effects:</u> Local
	DNEL - General population - Consumers - Short term - Inhalation	174 mg/m ³	<u>Effects:</u> Systemic
	DNEL - General population - Consumers - Long term - Inhalation	14,8 mg/m ³	<u>Effects:</u> Systemic
	DNEL - General population - Consumers - Long term - Dermal	108 mg/m ³	<u>Effects:</u> Systemic
	DNEL - General population - Long term - Oral	5 mg/kg bw/day	<u>Effects:</u> Systemic
	DNEL - General population - Long term - Inhalation	65,3 mg/m ³	<u>Effects:</u> Local
	DNEL - General population - Long term - Inhalation	65,3 mg/m ³	<u>Effects:</u> Systemic
	DNEL - General population - Long term - Dermal	125 mg/kg bw/day	<u>Effects:</u> Systemic
	DNEL - Workers - Long term - Dermal	212 mg/kg bw/day	<u>Effects:</u> Systemic
	DNEL - Workers - Long term - Inhalation	221 mg/m ³	<u>Effects:</u> Local
	DNEL - Workers - Long term - Inhalation	221 mg/m ³	<u>Effects:</u> Systemic
	DNEL - General population - Short term - Inhalation	260 mg/m ³	<u>Effects:</u> Local
	DNEL - General population - Short term - Inhalation	260 mg/m ³	<u>Effects:</u> Systemic
	DNEL - Workers - Short term - Inhalation	442 mg/m ³	<u>Effects:</u> Local
	DNEL - Workers - Short term - Inhalation	442 mg/m ³	<u>Effects:</u> Systemic
	DNEL - Workers - Long term - Inhalation	77 mg/m ³	<u>Effects:</u> Systemic
	DNEL - Workers - Long term - Dermal	180 mg/kg bw/day	<u>Effects:</u> Systemic
	DNEL - General population - Consumers - Long term - Inhalation	15 mg/m ³	<u>Effects:</u> Systemic
	DNEL - General population - Consumers - Long term - Oral	1,6 mg/kg bw/day	<u>Effects:</u> Systemic

SECTION 8: Exposure controls/personal protection

	DNEL - General population - Long term - Oral	1,6 mg/kg bw/day	Effects: Systemic
	DNEL - General population - Long term - Inhalation	15 mg/m³	Effects: Systemic
	DNEL - Workers - Long term - Inhalation	77 mg/m³	Effects: Systemic
	DNEL - Workers - Long term - Dermal	180 mg/kg bw/day	Effects: Systemic
	DNEL - Workers - Short term - Inhalation	293 mg/m³	Effects: Local
	DMEL - Workers - Long term - Inhalation	442 mg/m³	Effects: Local
	DMEL - Workers - Short term - Inhalation	884 mg/m³	Effects: Systemic

PNECs

Product/ingredient name	Result	Value	Remarks
reaction mass of ethylbenzene and xylene	Fresh water	0,327 mg/l	-
	Marine water	0,327 mg/l	-
	Fresh water sediment	12,46 mg/kg	-
	Marine water sediment	12,46 mg/kg	-
	Soil	2,31 mg/kg	-
	Sewage Treatment Plant	6,58 mg/l	-
xylene (mixture of isomeres)	Fresh water	0,327 mg/l	-
	Marine water	0,327 mg/l	-
	Fresh water sediment	12,46 mg/kg	-
	Marine water sediment	12,46 mg/kg	-
	Soil	2,31 mg/kg	-
	Sewage Treatment Plant	6,58 mg/l	-
ethylbenzene	Fresh water	0,1 mg/l	-
	Marine water	0,01 mg/l	-
	Fresh water sediment	13,7 mg/kg	-
	Marine water sediment	1,37 mg/kg	-
	Soil	2,68 mg/kg	-
	Sewage Treatment Plant	9,6 mg/l	-

8.2 Exposure controls

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, 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. 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: chemical splash goggles.

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): polyethylene (PE), polyvinyl alcohol (PVA)

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 filter (Type A) particulate filter (EN 140)

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. [Aerosol.]
- Colour** : Various
- Odour** : Solvent-like [Slight]
- Odour threshold** : Not available.
- Melting point/freezing point** : ☒ Not applicable.
- Initial boiling point and boiling range** : Not available.

Ingredient name	°C	°F	Method
☒ dimethyl ether	-24,82	-12,7	

- Flammability (solid, gas)** : Highly 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.
- Lower and upper explosion limit** : ☒ Lower: 1,61% [Calculated (Le Chatelier mixture rule)]
Upper: 16,88% [Calculated (Le Chatelier mixture rule)]
- Flash point** : ☒ Closed cup: -40°C (-40°F) [Literature dimethyl ether]
- Auto-ignition temperature** : ☒ 350°C (662°F) [Literature dimethyl ether]
- Decomposition temperature** : ☒ Not applicable.
- pH** : Not applicable.
- pH : Justification** : Product is non-soluble (in water).
- Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): Not available.

Solubility(ies) :

Media	Result
cold water	Not soluble
hot water	Not soluble

- Solubility in water** : Not available.
- Partition coefficient: n-octanol/ water** : Not applicable.
- Vapour pressure** : ☒ 13,3 kPa (3850 mm Hg) [Literature dimethyl ether]
- Evaporation rate** : Not available.
- Relative density** : Not available.
- Density** : 0,88 to 0,98 g/cm³ [20°C (68°F)] [DIN 53217]
- Vapour density** : >1 [Air = 1]

SECTION 9: Physical and chemical properties

Explosive properties	: Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts. 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.
Particle characteristics	
Median particle size	: Not applicable.

9.2 Other information

Heat of combustion	: 19,35 kJ/g
Aerosol product	
Type of aerosol	: Spray

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
10.5 Incompatible materials	: No specific data.
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Product/ingredient name	Result	Value
dimethyl ether	Rat - Inhalation - LC50 Gas.	308000 mg/m³ [1 hours]
	Mouse - Inhalation - LC50 Gas.	386 ppm [0,5 hours]
	Rat - Inhalation - LC50 Vapour	309 g/m³ [4 hours]
	Rat - Inhalation - LC50 Gas.	164000 ppm [4 hours]
reaction mass of ethylbenzene and xylene	Rabbit - Dermal - LD50	12126 mg/kg
xylene (mixture of isomeres)	Rat - Oral - LD50	4300 mg/kg
	Rabbit - Dermal - TDLo	4300 mg/kg
	Rabbit - Dermal - LD50	1100 mg/kg
ethylbenzene	Rat - Oral - LD50	3500 mg/kg
	Rat - Inhalation - LC50 Vapour	50000 mg/m³ [2 hours]

SECTION 11: Toxicological information

hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Rat - Inhalation - LCLo Vapour	4000 ppm [4 hours]
	Rabbit - Dermal - LD50	>5000 mg/kg
	Rat - Oral - LD50	>5000 mg/kg
	Rat - Inhalation - LC50 Vapour	5000 mg/m³ [4 hours]

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

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
2300 Hard-Hat Marking Paint	N/A	4959,2	N/A	46,3	N/A
dimethyl ether	N/A	N/A	164000	309	N/A
reaction mass of ethylbenzene and xylene	N/A	1100	N/A	11	N/A
xylene (mixture of isomeres)	4300	1100	N/A	11	N/A
ethylbenzene	3500	N/A	N/A	11	N/A

Skin corrosion/irritation

Product/ingredient name	Result	Exposure	Observation
2300 Hard-Hat Marking Paint	Rat - Skin - Mild irritant	Amount/concentration applied: 60 uL	-
	Rabbit - Skin - Moderate irritant	Amount/concentration applied: 500 mg	-
	Rabbit - Skin - Moderate irritant	Amount/concentration applied: 100 %	-
ethylbenzene	Rabbit - Skin - Mild irritant	Amount/concentration applied: 15 mg	-

Conclusion/Summary [Product] : Causes skin irritation.

Serious eye damage/eye irritation

Product/ingredient name	Result	Exposure	Observation
2300 Hard-Hat Marking Paint	Rabbit - Eyes - Mild irritant	Amount/concentration applied: 87 mg	-
	Rabbit - Eyes - Severe irritant	Amount/concentration applied: 5 mg	-
	Rabbit - Eyes - Moderate irritant	-	-
ethylbenzene	Rabbit - Eyes - Severe irritant	Amount/concentration applied: 500 mg	-

Conclusion/Summary [Product] : Causes serious eye irritation.

Respiratory corrosion/irritation

SECTION 11: Toxicological information

Not available.

Conclusion/Summary [Product] : May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.

Respiratory or skin sensitization

Not available.

Skin

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

Ingredient name	Conclusion/Summary
ethylbenzene	Non-sensitiser to skin.

Respiratory

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

Germ cell mutagenicity

Not available.

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

Carcinogenicity

Not available.

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

Reproductive toxicity

Not available.

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

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
Reaction mass of ethylbenzene and xylene	STOT SE 3, H335 (Respiratory tract irritation)
xylene (mixture of isomeres)	STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
Reaction mass of ethylbenzene and xylene	STOT RE 2, H373
xylene (mixture of isomeres)	STOT RE 2, H373
ethylbenzene	STOT RE 2, H373 (hearing organs)

Aspiration hazard

Product/ingredient name	Result
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SECTION 11: Toxicological information

Reaction mass of ethylbenzene and xylene	ASPIRATION HAZARD - Category 1
xylene (mixture of isomeres)	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
hydrocarbons, C10-C13, n-/ iso-/ cyclo- alkanes, < 2% aromatics	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

Routes of entry anticipated: Dermal, Inhalation, Eyes.
Routes of entry not anticipated: Oral.

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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

Short term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Long term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product]	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure.
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.

Conclusion/Summary [Product]	: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.
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11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species
Reaction mass of ethylbenzene and xylene	NOEC 0,44 mg/l [72 hours]	Algae
	Chronic - NOEC 0,96 mg/l [7 days]	Daphnia spec.
	Chronic - NOEC 1,3 mg/l [56 days]	Fish - Rainbow trout (oncorhynchus mykiss)
	Chronic - NOEC 1,17 mg/l [7 days]	Daphnia spec. - Zebra barbel
Xylene (mixture of isomeres)	Acute - EC50 - Fresh water 90 mg/l [48 hours]	Crustaceans - Ostracod
Ethylbenzene	Acute - LC50 - Fresh water 9090 µg/l [96 hours]	Fish - Fathead minnow
	Acute - LC50 - Fresh water 4200 µg/l [96 hours]	Fish - Rainbow trout, donaldson trout
	Acute - EC50 - Marine water 6,53 mg/l [48 hours]	Crustaceans - Brine shrimp - Nauplii
	Acute - LC50 - Marine water 8,78 mg/l [48 hours]	Crustaceans - Brine shrimp - Nauplii
	Acute - EC50 - Fresh water 2,97 mg/l [48 hours]	Daphnia spec. - Water flea - Neonate
	Acute - EC50 - Fresh water 3600 µg/l [96 hours]	Algae - Green algae
Hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Acute - LC50 >1000 mg/l [4 hours]	Fish
	Acute - EC50 >1000 mg/l [4 hours]	Daphnia spec.
	Acute - IC50 >1000 mg/l [4 hours]	Algae

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result
Xylene (mixture of isomeres)	Aerobic	90% [5 days] - Readily

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

Ingredient name	Conclusion/Summary
Hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Rapidly lost by degradation and volatilisation.

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene (mixture of isomeres)	-	-	Readily
ethylbenzene	-	-	Readily
hydrocarbons, C10-C13, n-/iso-/ cyclo-alkanes, < 2% aromatics	<28 days [Fresh water] [5 to 25 °C]	80%; <28 day(s)	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
dimethyl ether	0,07	-	Low
reaction mass of ethylbenzene and xylene	3,6	-	Low
xylene (mixture of isomeres)	3,12	8,1 to 25,9	Low
ethylbenzene	3,6	79,43	Low

12.4 Mobility in soil**Soil/water partition coefficient**

Product/ingredient name	logKoc	Koc
dimethyl ether	0,44	2,76229
ethylbenzene	2,2	170,406

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
dimethyl ether	No	No	No	No	No	No	No
reaction mass of ethylbenzene and xylene	No	No	No	No	No	No	No
xylene (mixture of isomeres)	No	No	No	No	No	No	No
ethylbenzene	No	No	No	No	No	No	No
hydrocarbons, C10-C13, n-/iso-/ cyclo-alkanes, < 2% aromatics	No	No	No	No	No	No	No

Mobility : Volatile. This product is likely to volatilise rapidly into the air because of its high vapour pressure.

Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment**Regulation (EC) No. 1907/2006 [REACH]**

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
dimethyl ether	No	N/A	N/A	No	N/A	N/A	N/A
reaction mass of ethylbenzene and xylene	N/A	N/A	N/A	Yes	N/A	N/A	N/A
xylene (mixture of isomeres)	No	N/A	No	Yes	No	N/A	No
ethylbenzene	No	N/A	No	Yes	No	N/A	No
hydrocarbons, C10-C13, n-/iso-/ cyclo-alkanes, < 2% aromatics	No	No	N/A	No	No	No	N/A

Regulation (EC) No. 1272/2008 [CLP]

SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
dimethyl ether	No	No	No	No	No	No	No
reaction mass of	No	No	No	No	No	No	No
ethylbenzene and xylene							
xylene (mixture of isomeres)	No	No	No	No	No	No	No
ethylbenzene	No	No	No	No	No	No	No
hydrocarbons, C10-C13, n-/	No	No	No	No	No	No	No
iso-/ cyclo-alkanes, < 2%							
aromatics							

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

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 : Avoid release to the environment. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous waste : Yes.

European waste catalogue (EWC)

Waste code	Waste designation
20 01 27*	paint, inks, adhesives and resins containing hazardous substances

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 or ID number	UN1950	UN1950	UN1950	UN1950
14.2 UN proper shipping name	AEROSOLS, flammable	AEROSOLS, flammable	AEROSOLS, flammable	AEROSOLS, flammable
14.3 Transport hazard class(es)	2 	2 	2.1 	2.1 
14.4 Packing group	-	-	-	-

SECTION 14: Transport information

14.5 Environmental hazards	No.	No.	No.	No.
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Additional information ADR

- Limited quantity : 1L
- Transport Category : 2
- Classification code : 5F
- ADR Label Model Number : 2.1
- Excepted Quantity : E0
- Tunnel code : (D)
- Packing instructions : P207, LP200
- Mixed Packing Provisions : MP9
- Special Packing Provisions : P87, RR6, L2
- Special provisions : 190, 327, 344, 625

Additional information ADN

- Limited quantity : 1L
- Classification code : 5F
- Special provisions : 190, 327, 344, 625

Additional information IMDG

- Limited quantity : 1L
- Emergency schedules : F-D, S-U
- Segregation code : SG69 - For AEROSOLS with a maximum capacity of 1 L: segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 L: segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: segregation as for the appropriate subdivision of class 2.
- Special provisions : 63, 190, 277, 327, 344, 381, 959

Additional information IATA

- Passenger and Cargo Aircraft : Quantity limitation 75kg Packaging instruction 203
- Cargo aircraft : Quantity limitation 150kg Packaging instruction 203
- Limited Quantities - Passenger Aircraft : Quantity limitation 30kg Packaging instruction Y203
- Special provisions : A145, A167, A802

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

14.7 Maritime 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]
2300 Hard-Hat Marking Paint	≥90	3

[Labelling](#) : Not applicable.
[Synthetic polymer microparticles - Designation 78](#)
[Generic identity of polymer\(s\)](#) : Polyethylene derivative
[Total percentage of synthetic polymer microparticles](#) : 0,156702%

[Other EU regulations](#)

[VOC](#) : Exempt
[VOC for Ready-for-Use Mixture](#) : Exempt
[Industrial emissions \(integrated pollution prevention and control\) - Air](#) : Not listed
[Industrial emissions \(integrated pollution prevention and control\) - Water](#) : Not listed
[Explosive precursors](#) : Not applicable.
[Ozone depleting substances \(EU 2024/590\)](#)
Not listed.
[Prior Informed Consent \(PIC\) \(649/2012/EC\)](#)
Not listed.
[Persistent Organic Pollutants \(850/2004/EC\)](#)
Not listed.
[Aerosol dispensers](#) :

3



Extremely flammable

SECTION 15: Regulatory information**Seveso Directive**

This product is controlled under the Seveso Directive.

Danger criteria**Category**

P3a

National regulations**Austria**

VbF class : Category 1

Storage code : LGK2B

Classification, packaging and labelling : Not available.

Limitation of the use of organic solvents : Forbidden

Waste catalogue : 59803

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
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Belgium**Book VI carcinogenic agents annex VI.2-1 - VI.2-3**

Ingredient name	Status
Cobalt et ses composés	Listed

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 of 17 May 2007, amending 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
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Croatia

SECTION 15: Regulatory information

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

: I

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
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Denmark

Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
 titanium dioxide	Listed	-
 ethylbenzene	Listed	-

Product registration number

: 4397608

Fire class

: I-1

Denmark – Cancer risks

: Listed

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, respiratory protection with air supply and arm protectors/apron/coveralls/protective clothing must be worn as appropriate or as instructed.

SECTION 15: Regulatory information

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 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, spray-cabin 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-for-use mixture	: Not applicable.
Protection based on MAL for ready-for-use mixture	: Not applicable.
	Not applicable.
	Not applicable.
Low-boiling liquids	: This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed.
Restrictions on use	: 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

SECTION 15: Regulatory information

Carcinogenic waste	: Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.
Waste card number	: 03.21
Waste group	: Z
Remark	: Not available.
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". 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 materials. 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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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 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

France

Social Security Code, Articles L 461-1 to L 461-7	: dimethyl ether	RG 84
	reaction mass of ethylbenzene and xylene	RG 4bis
	xylene (mixture of isomeres)	RG 4bis, RG 84
	ethylbenzene	RG 84
	hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2%	RG 84)
	aromatics	

SECTION 15: Regulatory information

Classified installations for environmental protection	: Not available.
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 code 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 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

Germany

TRGS 905

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development
 Cobalt-Verbindungen (in Form atembarer Stäube/ Aerosole), ausge-nommen die in dieser Liste bzw. in Anhang VI Teil 3 der CLP-Verordnung namentlich aufgeführten Cobaltverbindungen, Cobalt-haltigen Spinellen und organischen Cobalt-Sikkativen	K2	M1A	RF1A	RD1A

Storage class (TRGS 510) : 2B

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Named substances

Name	Reference number

Danger criteria

Category	Reference number
P3a	1.2.3.1

Hazard class for water : 2

Technical instruction on air quality control (TA Luft)

Number [Class]	Description
 5.2.1 5.2.2 [III] 5.2.5 5.2.10	Total dust Dusty inorganic substances Organic substances Soil polluting substances

AOX

: The product contains organically bound halogens and can contribute to the AOX value in waste water.

SECTION 15: Regulatory information

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 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

Greece

References

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

Hungary

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

Ireland

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 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

Italy

D.Lgs. 152/06

References

- : Not determined.
- : Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878

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 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

SECTION 15: Regulatory information

References : -

Malta

References : -

Netherlands

Ministry of Social Affairs and Employment (SZW) - Carcinogenic substances and processes, mutagenic or reprotoxic substances

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
Kyleen	-	-	-	Development 2	-

Water Discharge Policy (ABM) : B(4) Low hazard for aquatic organisms. Decontamination effort: B

Remark : Empty spraycans may be disposed of as ordinary solid non-hazardous waste.

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

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

SECTION 15: Regulatory information

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

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

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

Sweden

Ordinance on Thermoset Plastics : Not applicable.

Thermoset plastic waste : Not available.

Waste group : 200127*

Flammable liquid class (SRVFS 2005:10) : 1

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

List name	Ingredient name	Status
Not listed.		

CN code : 3208 10 90 00

Inventory list

Australia : Not determined.

Canada : ☒ At least one component is not listed in DSL but all such components are listed in NDSL.

China : At least one component is not listed.

Eurasian Economic Union : **Russian Federation inventory:** Not determined.

SECTION 15: Regulatory information

Japan	: Japan inventory (CSCL): At least one component is not listed. Japan inventory (ISHL): At least one component is not listed.
New Zealand	: At least one component is not listed.
Philippines	: Not determined.
Republic of Korea	: At least one component is not listed.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
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.
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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
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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Aerosol 1, H222, H229 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373	On basis of test data Calculation method Calculation method Calculation method Calculation method

Full text of abbreviated H statements

Europe																															
Full text of abbreviated H statements	: <table><tr><td>H220</td><td>Extremely flammable gas.</td></tr><tr><td>H222,</td><td>Extremely flammable aerosol. Pressurised container: may burst if</td></tr><tr><td>H229</td><td>heated.</td></tr><tr><td>H225</td><td>Highly flammable liquid and vapour.</td></tr><tr><td>H226</td><td>Flammable liquid and vapour.</td></tr><tr><td>H280</td><td>Contains gas under pressure; may explode if heated.</td></tr><tr><td>H304</td><td>May be fatal if swallowed and enters airways.</td></tr><tr><td>H312</td><td>Harmful in contact with skin.</td></tr><tr><td>H315</td><td>Causes skin irritation.</td></tr><tr><td>H319</td><td>Causes serious eye irritation.</td></tr><tr><td>H332</td><td>Harmful if inhaled.</td></tr><tr><td>H335</td><td>May cause respiratory irritation.</td></tr><tr><td>H373</td><td>May cause damage to organs through prolonged or repeated exposure.</td></tr><tr><td>H412</td><td>Harmful to aquatic life with long lasting effects.</td></tr><tr><td>EUH066</td><td>Repeated exposure may cause skin dryness or cracking.</td></tr></table>	H220	Extremely flammable gas.	H222,	Extremely flammable aerosol. Pressurised container: may burst if	H229	heated.	H225	Highly flammable liquid and vapour.	H226	Flammable liquid and vapour.	H280	Contains gas under pressure; may explode if heated.	H304	May be fatal if swallowed and enters airways.	H312	Harmful in contact with skin.	H315	Causes skin irritation.	H319	Causes serious eye irritation.	H332	Harmful if inhaled.	H335	May cause respiratory irritation.	H373	May cause damage to organs through prolonged or repeated exposure.	H412	Harmful to aquatic life with long lasting effects.	EUH066	Repeated exposure may cause skin dryness or cracking.
H220	Extremely flammable gas.																														
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2300 Hard-Hat Marking Paint

SECTION 16: Other information

Full text of classifications [CLP/GHS]	:		Acute Tox. 4	ACUTE TOXICITY - Category 4
			Aerosol 1	AEROSOLS - Category 1
			Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
			Asp. Tox. 1	ASPIRATION HAZARD - Category 1
			Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
			Flam. Gas 1A	FLAMMABLE GASES - Category 1A
			Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
			Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
			Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas
			Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
			STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
			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.

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