

## SAFETY DATA SHEET

2169 & 2182 Hard-Hat Primers

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

1.1 Product identifier

Product name : 2169 & 2182 Hard-Hat Primers

Product description : Aerosol. Paint Product type : Aerosol.

**UFI** : 8CU1-70M7-000Y-QAAX

#### 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

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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 : 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

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

Telephone number Poland : +48 223988029 Telephone number Portugal : +351 308801773 Telephone number Romania : +40 37 6300026 : +421 233057972 Telephone number Slovakia 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 STOT SE 3, H336

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.

H336 - May cause drowsiness or dizziness.

**Precautionary statements** 

elements

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**: 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.

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.

Hazardous ingredients : n-butyl acetate

Ethylacetate

1-methoxy-2-propanol

**Supplemental label**: EUH208 - Contains 3-aminopropyltriethoxysilane. May produce an allergic reaction.

EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed.

Do not breathe spray or mist.

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#### **SECTION 2: Hazards identification**

Supplemental label elements: Detergents -

Regulation (EC) No

907/2006

**Annex XVII - Restrictions** 

: Not applicable. 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.

## SECTION 3: Composition/information on ingredients

: Mixture 3.2 Mixtures

**Europe** 

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤14	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1]
Ethylacetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≤5,3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1]
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	REACH #: 01-2119457273-39 EC: 918-481-9 Index: 649-327-00-6	≤0,19	Asp. Tox. 1, H304 EUH066	-	[1] [2]
3-aminopropyltriethoxysilane	REACH #: 01-2119480479-24 EC: 213-048-4 CAS: 919-30-2 Index: 612-108-00-0	≤0,3	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	ATE [Oral] = 500 mg/kg	[1]

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

Amines, tallow alkyl, ethoxylated	EC: 500-153-8 CAS: 61791-26-2	<0,25	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg M [Acute] = 1 M [Chronic] = 1	[1]
			See Section 16 for the full text of the H statements declared above.		

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

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

This mixture contains ≥ 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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

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

#### 4.1 Description of first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

**Inhalation** 

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If 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. Get medical attention if symptoms occur. 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.

**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: irritation

irritation redness

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

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact : No specific data.

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.

**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.

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#### 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. 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). Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapour or mist. 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.

#### 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

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

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. 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 tonne	500 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
Ethylacetate	EU OEL (Europe, 1/2022) STEL 15 minutes: 400 ppm. STEL 15 minutes: 1468 mg/m³.
	TWA 8 hours: 200 ppm. TWA 8 hours: 734 mg/m³.
	Recommended by manufacturer (Europe, 2009) [hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics] TWA 8 hours: 1200 mg/m³ ((184 ppm)). Form: Vapour.

## 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	Type	Exposure	Value	Population	Effects
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 <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	960 mg/m³	Workers	Local
	DNEL	Long term	480 mg/m <sup>3</sup>	Workers	Systemic

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

			Inhalation			
		DNEL	Long term Inhalation	480 mg/m³	Workers	Local
		DNEL	Short term Inhalation	859,7 mg/ m³	General population	Systemic
		DNEL	Short term Inhalation	859,7 mg/ m³	[Consumers] General	Local
		DNEL	Long term	102,34 mg/	population [Consumers] General	Systemic
			Inhalation	m³	population [Consumers]	- <b>,</b>
		DNEL	Long term Inhalation	102,34 mg/ m³	General population	Local
		DNEL	Long term Dermal	3,4 mg/kg bw/day	[Consumers] General population [Consumers]	Systemic
Eth	ylacetate	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Local
		DNEL	Short term Inhalation	1468 mg/ m³	Workers	Systemic
		DNEL	Long term Inhalation	734 mg/m³	Workers	Local
		DNEL	Long term Inhalation	34 mg/m³	Workers	Systemic
		DNEL	Long term Dermal	63 mg/kg bw/day	Workers	Systemic
		DNEL	Short term Inhalation	734 mg/m³	General population [Consumers]	Local
		DNEL	Short term Inhalation	734 mg/m³	General population [Consumers]	Systemic
		DNEL	Long term Inhalation	367 mg/m³	General population [Consumers]	Local
		DNEL	Long term Inhalation	367 mg/m <sup>3</sup>	General population [Consumers]	Systemic
		DNEL	Long term Dermal	37 mg/kg bw/day	General population [Consumers]	Systemic
		DNEL	Long term Oral	4,5 mg/kg bw/day	General population [Consumers]	Systemic
1-m	nethoxy-2-propanol	DNEL	Short term Inhalation	553,5 mg/ m³	Workers	Local
		DNEL	Long term Inhalation	369 mg/m <sup>3</sup>	Workers	Systemic
		DNEL	Long term Dermal	50,6 mg/ kg bw/day	Workers	Systemic
		DNEL	Long term Inhalation	43,9 mg/m <sup>3</sup>	General population	Systemic
		DNEL	Long term Dermal	18,1 mg/ kg bw/day	[Consumers] General population [Consumers]	Systemic
		DNEL	Long term Oral	3,3 mg/kg bw/day	General population [Consumers]	Systemic
3-а	minopropyltriethoxysilane	DNEL	Short term Dermal	8,3 mg/kg	Workers	Systemic
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## **SECTION 8: Exposure controls/personal protection**

DNEL	Short term	bw/day 59 mg/m³	Workers	Systemic
DNEL	Inhalation Long term Dermal	8,3 mg/kg bw/day	Workers	Systemic
DNEL	Long term Inhalation	59 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Short term Oral	5 mg/kg bw/day	General population	Systemic
DNEL	Short term Dermal	5 mg/kg bw/day	[Consumers] General population	Systemic
DNEL	Short term	17,4 mg/m <sup>3</sup>	[Consumers] General	Systemic
	Inhalation	, 3	population [Consumers]	,
DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
DNEL	Long term Dermal	5 mg/kg bw/day	[Consumers] General population	Systemic
DNEL	Long term Inhalation	17 mg/m³	[Consumers] General population	Systemic
			[Consumers]	

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
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	35,6 mg/l	-
	Plant		
Ethylacetate	Fresh water	0,24 mg/l	-
	Marine	0,024 mg/l	-
	Fresh water sediment	1,15 mg/kg	-
	Marine water sediment	0,115 mg/kg	-
	Soil	0,148 mg/kg	-
	Sewage Treatment	650 mg/l	-
	Plant		
1-methoxy-2-propanol	Fresh water	10 mg/l	-
	Fresh water sediment	41,6 mg/l	-
	Marine water sediment	4,17 mg/l	-
	Soil	2,47 mg/l	-
	Sewage Treatment	100 mg/l	-
	Plant		
3-aminopropyltriethoxysilane	Fresh water	0,33 mg/l	-
	Marine	0,033 mg/l	-
	Sewage Treatment	3,3 mg/l	-
	Plant		
	Fresh water sediment	0,26 mg/l	-
	Soil	0,04 mg/l	-

#### 8.2 Exposure controls

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.

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

#### **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: 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): 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)

## **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.

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## 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 : Grey. Red.

Odour : Solvent-like [Slight]

Odour threshold : Not available.

**Melting point/freezing point** 

Initial boiling point and

Not available.Not available.

boiling range

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: 3% Upper: 18%

Flash point : Closed cup: -40°C (-40°F) [Literature]

Auto-ignition temperature

: 350°C (662°F) [Literature]

**Decomposition temperature** 

Not available.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.

water

Partition coefficient: n-octanol/: Not applicable.

Vapour pressure : 400 kPa (3000 mm Hg) [calculated.]

**Evaporation rate** : Not available. **Relative density** : Not available.

**Density** : 0,86 g/cm³ [20°C (68°F)] [DIN 53217]

Vapour density : >1 [Air = 1]

**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** 

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## SECTION 9: Physical and chemical properties

Median particle size : Not applicable.

9.2 Other information

Heat of combustion : 21,78 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

#### **Acute toxicity**

Product/ingredient name Result		Species	Dose	Exposure
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 <sup>3</sup>	4 hours
	LD50 Oral	Rat	14000 mg/kg	-
Ethylacetate	LC50 Inhalation Vapour	Rat	>22,5 mg/l	6 hours
	LD50 Oral	Mouse	4100 mg/kg	-
	LD50 Oral	Rabbit	4935 mg/kg	-
	LD50 Oral	Rat	5620 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	30,02 mg/l	4 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Mouse	11700 mg/kg	-
	LD50 Oral	Rat - Male,	4016 mg/kg	-
		Female		
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	LC50 Inhalation Vapour	Rat	5000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	_
	LD50 Oral	Rat	>5000 mg/kg	-
3-aminopropyltriethoxysilane	LC50 Inhalation Vapour	Rat - Female	>7350 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	4,29 g/kg	-
	LD50 Dermal	Rabbit	4076 mg/kg	-
	LD50 Oral	Rat - Male	2,83 g/kg	-
	LD50 Oral	Rat - Female	1490 mg/kg	-
Amines, tallow alkyl, ethoxylated	LD50 Dermal	Rat	>10 g/kg	-
<b>,</b>	LD50 Oral	Rat	500 mg/kg	-

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

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## **SECTION 11: Toxicological information**

#### **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)
n-butyl acetate	N/A	N/A	N/A	N/A	23,4
3-aminopropyltriethoxysilane	500	N/A	N/A	N/A	N/A
Amines, tallow alkyl, ethoxylated	500	N/A	N/A	N/A	N/A

#### **Irritation/Corrosion**

SkinBased on available data, the classification criteria are not met.EyesBased on available data, the classification criteria are not met.

**Respiratory**: May cause drowsiness or dizziness.

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
3-aminopropyltriethoxysilane	skin	Guinea pig	Sensitising

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

**Mutagenicity** 

**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** 

**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
n-butyl acetate	Category 3	-	Narcotic effects
Ethylacetate	Category 3		Narcotic effects
1-methoxy-2-propanol	Category 3		Narcotic effects

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

Not available.

#### **Aspiration hazard**

Product/ingredient name	Result	
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** : No known significant effects or critical hazards.

**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: No known significant effects or critical hazards.

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

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## **SECTION 11: Toxicological information**

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

irritation redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact : No specific data.

Ingestion : No specific data.

#### 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

Not available.

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

General : No known significant effects or critical hazards.
 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
n-butyl acetate	Acute EC50 397 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	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
Ethylacetate	Acute EC50 5600 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 165 mg/l Fresh water	Daphnia spec Daphnia Cucullata	48 hours
	Acute LC50 230 mg/l Fresh water	Fish - Pimephales promelas	48 hours
	Chronic NOEC 2,4 mg/l Fresh water	Daphnia spec Daphnia magna	21 days

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## **SECTION 12: Ecological information**

	Chronic NOEC 6,9 mg/l Fresh water	Fish - Pimephales promelas	6,9 hours
1-methoxy-2-propanol	Acute EC50 >1000 mg/l	Algae - Selenastrum	7 days
		capricomutum	
	Acute EC50 23300 mg/l	Daphnia spec.	96 hours
	Acute LC50 6812 mg/l Fresh water	Fish	96 hours
hydrocarbons, C10-C13, n-/	Acute EC50 >1000 mg/l	Daphnia spec.	4 hours
iso-/ cyclo-alkanes, < 2%			
aromatics			
	Acute IC50 >1000 mg/l	Algae	4 hours
	Acute LC50 >1000 mg/l	Fish	4 hours
Amines, tallow alkyl,	Chronic EC50 0,17 mg/l	Daphnia spec.	48 hours
ethoxylated			
	Chronic LC50 0,13 mg/l	Fish	96 hours

**Conclusion/Summary** 

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

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
n-butyl acetate	-	90 % - Readily - 28 days	-	-
•	OECD 301D	83 % - Readily - 28 days	-	-
	-	80 % - 5 days	-	-
Ethylacetate	OECD 301D	70 % - Readily - 28 days	-	-
1-methoxy-2-propanol	OECD 301E	96 % - Readily - 28 days	-	-
	OECD 301C	88 to 92 % - Readily - 28 days	-	-
	-	>90 % - Readily - 5 days	1,95 qO <sub>2</sub> /g	-
			ThOD	
3-aminopropyltriethoxysilane	EU 79/831 - C. 4-A	67 % - 28 days	_	-

#### **Conclusion/Summary**

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-butyl acetate Ethylacetate 1-methoxy-2-propanol hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics 3-aminopropyltriethoxysilane	- Fresh water <28 days, 5 to 25°C Fresh water <28 days, 5 to 25°C	- - 80%; < 28 day(s)	Readily Readily Readily Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2,3	10	Low
Ethylacetate	0,68	30	Low
1-methoxy-2-propanol	<1	<100	Low
3-aminopropyltriethoxysilane	1,7	3,4	Low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

**Mobility** 

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

#### 12.5 Results of PBT and vPvB assessment

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

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## **SECTION 12: Ecological information**

#### 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.

<u>European waste catalogue (EWC)</u>

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	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	Limited quantity 1L Special provisions 190, 327, 344, 625 Tunnel code (D)	Special provisions 190, 327, 344, 625 Remarks : ≤ 1L: Limited Quantity	Emergency schedules: F-D, S-U Special provisions 63, 190, 277, 327, 344, 381, 959 Remarks: ≤ 1L: Limited Quantity - IMDG 3.4	Quantity limitation Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities - Passenger Aircraft: 30

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SECTION 14: Transport information		
	kg. Packaging instructions: Y203. Special provisions A145, A167, A802	

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

: Not available.

instruments

## **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]
2169 & 2182 Hard-Hat® Primers	≥90	3

Labelling : Not applicable.

**Other EU regulations** 

VOC : Exempt **VOC for Ready-for-Use** : Exempt

**Mixture** 

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Air

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Water

**Explosive precursors** : Not applicable.

**EU - Ozone depleting substances** 

Not listed.

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

Not listed.

Persistent Organic Pollutants (850/2004/EC)

Not listed.

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## **SECTION 15: Regulatory information**

#### Aerosol dispensers

3



Extremely flammable

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

Category

P3a

#### **National regulations**

**Austria** 

**VbF class** : Not regulated.

Storage code : LGK2B

Classification, packaging

and labelling

: Not available.

Limitation of the use of

organic solvents

: Forbidden

: 59803

Waste catalogue

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
Noirs de charbon	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 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

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## **SECTION 15: Regulatory information**

#### **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

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

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**Cyprus** 

References : -

**Czech Republic** 

Storage code : I

References : De

: 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	-

**Product registration** 

number

: Not available.

Fire class : I-1 MAL-code : 3-1

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

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## **SECTION 15: Regulatory information**

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.

MAL-code: 3-1

**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 in cabins or booths of the existing\* facility type, if the operator is inside 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. 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 half mask and eye protection must be worn.

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

- Air-supplied full mask and arm protectors 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

: 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

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## 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

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#### **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

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**Finland** 

: Not available. **NACE 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

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**France** 

Social Security Code, : n-butyl acetate **RG 84** Articles L 461-1 to L 461-7 Ethylacetate

**RG 84** 1-methoxy-2-propanol RG 84 hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% RG 84)

aromatics

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## **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: not 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

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#### Germany

#### **TRGS 905**

Ingredient name	Carcinogen	•	toxicity - Fertility	Reproductive toxicity - Development
Cobalt compounds	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 : 1

#### Technical instruction on air quality control (TA Luft)

Number [Class]	Description
5.2.1	Total dust
5.2.5	Organic substances
5.2.10	Soil polluting substances

#### **AOX**

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

#### 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**

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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 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

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<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

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>Italy</u>

D.Lqs. 152/06 : Not determined.

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

Regulation (EU) No. 2020/878

<u>Latvia</u>

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

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Luxembourg

References : -

**Malta** 

References : -

**Netherlands** 

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

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## **SECTION 15: Regulatory information**

Ingredient name	Carcinogen	•	Reproductive toxicity - Fertility		Harmful via breastfeeding
ethanol	Listed	-	Fertility 1A	Development 1A	Listed

Water Discharge Policy (ABM)

: A(4) Low hazard for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A

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** 

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** 

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2169 & 2182 Hard-Hat® Primers

## **SECTION 15: Regulatory information**

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

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**Sweden** 

**Ordinance on Thermoset** 

**Plastics** 

: Not applicable.

Thermoset plastic waste : Not available.

Waste group : 200127\*

Flammable liquid class

(SRVFS 2005:10)

: 1

**References**: Thermosetting plastics AFS 2005:18

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 : At least one component is not listed.

Canada : At least one component is not listed.

China : At least one component is not listed.

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

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 : At least one component is not listed.

Republic of Korea : At least one component is not listed.

Taiwan : At least one component is not listed.

Thailand : At least one component is not listed.

Turkey : At least one component is not listed.

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## **SECTION 15: Regulatory information**

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
Aerosol 1, H222, H229	On basis of test data
STOT SE 3, H336	Calculation method

#### Full text of abbreviated H statements

#### **Europe**

Full text of abbreviated H statements

: H222,	Extremely flammable aerosol. Pressurised container: may burst if
H229	heated.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aerosol 1	AEROSOLS - Category 1
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Chronic 1	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
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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#### **SECTION 16: Other information**

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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 quarantee that these are the only hazards that exist.