



# SAFETY DATA SHEET

**RUST-OLEUM**<sup>®</sup>  
— INDUSTRIAL —

1015 Heat Resistant Alu (brush)

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

### 1.1 Product identifier

**Product name** : 1015 Heat Resistant Alu (brush)  
**Product description** : Paint  
**Product type** : Liquid.  
**UFI** : 85E0-K04S-9003-1H7Q  
**Product code** : ROI0004

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

Identified uses	
<input checked="" type="checkbox"/> Consumer <input type="checkbox"/> Industrial <input type="checkbox"/> 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)

1015 Heat Resistant Alu (brush)

## 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, Hipokrāta 2, 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

1015 Heat Resistant Alu (brush)

## 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]**

Flam. Liq. 3, H226  
STOT SE 3, H336

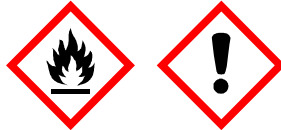
The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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** : Warning

**Hazard statements** : H226 - Flammable liquid and vapour.  
H336 - May cause drowsiness or dizziness.

#### 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.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 - Use only outdoors or in a well-ventilated area.

**Response** : P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

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

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** : Hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics

**Supplemental label elements** : EUH066 - Repeated exposure may cause skin dryness or cracking.  
EUH208 - Contains phthalic anhydride and neodecanoic acid, cobalt salt. May produce an allergic reaction.

**Supplemental label elements : Detergents -** : Not applicable.

**Regulation (EC) No 907/2006**

1015 Heat Resistant Alu (brush)

## SECTION 2: Hazards identification

**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** : 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.

**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 Europe** : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
hydrocarbons, C9-C11, n-/iso-/ cyclo-alkanes, < 2% aromatics	REACH #: 01-2119463258-33 EC: 919-857-5	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	-	[1] [2]
hydrocarbons, C10-C13, n-/iso-/ cyclo-alkanes, < 2% aromatics	REACH #: 01-2119457273-39 EC: 918-481-9	≤10	Asp. Tox. 1, H304 EUH066	-	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤1	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
phthalic anhydride	REACH #: 01-2119457017-41 EC: 201-607-5 CAS: 85-44-9 Index: 607-009-00-4	≤0,3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Oral] = 1530 mg/kg	[1]
neodecanoic acid, cobalt salt	REACH #: 01-2119970733-31 EC: 248-373-0 CAS: 27253-31-2	≤0,3	Acute Tox. 4, H302 Skin Sens. 1, H317 STOT RE 1, H372 Aquatic Chronic 3, H412	ATE [Oral] = 1098 mg/kg	[1]

1015 Heat Resistant Alu (brush)

### SECTION 3: Composition/information on ingredients

			See Section 16 for the full text of the H statements declared above.		
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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** : Wash skin thoroughly with soap and water or use recognised skin cleanser. 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** : No specific data.
- Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** : Adverse symptoms may include the following:  
irritation  
dryness  
cracking

1015 Heat Resistant Alu (brush)

## SECTION 4: First aid measures

**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 dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

**Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
halogenated compounds  
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** : No unusual hazard if involved in a fire.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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

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

### 6.2 Environmental precautions

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

## SECTION 6: Accidental release measures

### 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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

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

#### Seveso Directive - Reporting thresholds

##### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonnes	50000 tonnes

### 7.3 Specific end use(s)

- Recommendations** : Not available.

1015 Heat Resistant Alu (brush)

## SECTION 7: Handling and storage

**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
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	<b>Recommended by manufacturer (Europe, 7/2023)</b> Notes: Recommended by manufacturer TWA 8 hours: 1200 mg/m <sup>3</sup> ((197 ppm)). Form: Vapour. <b>Recommended by manufacturer (Europe, 2009)</b> <b>[hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, &lt; 2% aromatics]</b> TWA 8 hours: 1200 mg/m <sup>3</sup> (as hydrocarbon mixture (A) (197 ppm)). Form: Vapour.
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	<b>Recommended by manufacturer (Europe, 2009)</b> <b>[hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, &lt; 2% aromatics]</b> TWA 8 hours: 1200 mg/m <sup>3</sup> ((184 ppm)). Form: Vapour.
1-methoxy-2-propanol	<b>EU OEL (Europe, 1/2022)</b> Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m <sup>3</sup> .

No exposure indices known.

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

#### DNELs/DMELs

Product/ingredient name	Result	Value	Effects
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	<b>DNEL - Workers - Long term - Dermal</b>	280 mg/kg	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Short term - Inhalation</b>	871 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - General population - Consumers - Long term - Oral</b>	125 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - General population - Consumers - Long term - Inhalation</b>	185 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - General population - Consumers - Long term -</b>	125 mg/kg	<u>Effects:</u> Systemic

## SECTION 8: Exposure controls/personal protection

1-methoxy-2-propanol	<b>Dermal</b>		
	<b>DNEL - Workers - Short term - Inhalation</b>	553,5 mg/m <sup>3</sup>	<u>Effects:</u> Local
	<b>DNEL - Workers - Long term - Inhalation</b>	369 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Long term - Dermal</b>	50,6 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - General population - Consumers - Long term - Inhalation</b>	43,9 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - General population - Consumers - Long term - Dermal</b>	18,1 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - General population - Consumers - Long term - Oral</b>	3,3 mg/kg bw/day	<u>Effects:</u> Systemic
phthalic anhydride	<b>DNEL - Workers - Long term - Inhalation</b>	369 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Short term - Inhalation</b>	553,5 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - General population - Long term - Oral</b>	5 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - General population - Long term - Dermal</b>	5 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - General population - Long term - Inhalation</b>	8,7 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Long term - Dermal</b>	14 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - General population - Short term - Oral</b>	25 mg/kg bw/day	<u>Effects:</u> Systemic
neodecanoic acid, cobalt salt	<b>DNEL - Workers - Long term - Inhalation</b>	49,4 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Long term - Inhalation</b>	273 µg/m <sup>3</sup>	<u>Effects:</u> Local
	<b>DNEL - General population - Long term - Inhalation</b>	43 µg/m <sup>3</sup>	<u>Effects:</u> Local
	<b>DNEL - General population - Long term - Oral</b>	0,032 mg/kg bw/day	<u>Effects:</u> Systemic

### PNECs

## SECTION 8: Exposure controls/personal protection

Product/ingredient name	Result	Value	Remarks	
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 Plant	100 mg/l	-	
	phthalic anhydride	Fresh water	1 mg/l	-
		Marine water	0,1 mg/l	-
		Sewage Treatment Plant	10 mg/l	-
	neodecanoic acid, cobalt salt	Fresh water sediment	3,8 mg/kg dwt	-
Marine water sediment		0,38 mg/kg dwt	-	
Soil		0,173 mg/kg dwt	-	
Fresh water		1,06 µg/l	-	
		Marine water	2,36 µg/l	-
		Sewage Treatment Plant	0,37 mg/l	-
Fresh water sediment		53,8 mg/kg dwt	-	
Marine water sediment		69,8 mg/kg dwt	-	
Soil		10,9 mg/kg dwt	-	

### 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.

#### 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

## SECTION 8: Exposure controls/personal 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), nitrile rubber (0.5mm)

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. Recommended: Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapour (Type A) and particulate filter (EN 140)

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

## SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	: Liquid.
<b>Colour</b>	: Silver.
<b>Odour</b>	: Solvent-like
<b>Odour threshold</b>	: Not available.
<b>Melting point/freezing point</b>	: <input checked="" type="checkbox"/> Not applicable.
<b>Initial boiling point and boiling range</b>	: <input checked="" type="checkbox"/> 50 to 205°C (302 to 401°F) [Literature hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics]

## SECTION 9: Physical and chemical properties

<b>Flammability (solid, gas)</b>	: Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts. Vapour may travel a considerable distance to source of ignition and flash back.
<b>Lower and upper explosion limit</b>	: Lower: 0,6% [Calculated (Le Chatelier mixture rule)] Upper: 7,04% [Calculated (Le Chatelier mixture rule)]
<b>Flash point</b>	: Closed cup: 41°C (105,8°F) [Literature hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics]
<b>Auto-ignition temperature</b>	: 230°C (>446°F) [Literature hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics]
<b>Decomposition temperature</b>	: Not applicable.
<b>pH</b>	: Not applicable.
<b>pH : Justification</b>	: Product is non-soluble (in water).
<b>Viscosity</b>	: Dynamic (room temperature): 800 to 1150 mPa·s [ASTM D562 [KU]] Kinematic (room temperature): 720 to 1064 mm <sup>2</sup> /s [calculated.] Kinematic (40°C): >20,5 mm <sup>2</sup> /s [calculated.]
<b>Solubility(ies)</b>	:

Media	Result
cold water	Not soluble
hot water	Not soluble

<b>Solubility in water</b>	: Not applicable.
<b>Miscible with water</b>	: No.
<b>Partition coefficient: n-octanol/ water</b>	: Not applicable.
<b>Vapour pressure</b>	: 0,1 to 0,3 kPa (0,75 to 2,25 mm Hg) [Literature hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics]
<b>Evaporation rate</b>	: 0,2 (Butyl acetate. = 1)
<b>Relative density</b>	: Not available.
<b>Density</b>	: 1,08 to 1,11 g/cm <sup>3</sup> [20°C (68°F)] [DIN 53217]
<b>Vapour density</b>	: >1 [Air = 1]
<b>Explosive properties</b>	: Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts. No unusual hazard if involved in a fire.
<b>Oxidising properties</b>	: Not available.
<b>Particle characteristics</b>	
<b>Median particle size</b>	: Not applicable.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
<b>10.5 Incompatible materials</b>	: Reactive or incompatible with the following materials: oxidising materials

1015 Heat Resistant Alu (brush)

## SECTION 10: Stability and reactivity

**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	Value
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Rabbit - Dermal - LD50	>5000 mg/kg
	Rat - Oral - LD50	>5000 mg/kg
	Rat - Inhalation - LC50 Vapour	5000 mg/m <sup>3</sup> [4 hours]
1-methoxy-2-propanol	Mouse - Oral - LD50	11700 mg/kg
phthalic anhydride	Rabbit - Dermal - LD50	13 g/kg
	Rat - Inhalation - LC50 Vapour	30,02 mg/l [4 hours]
neodecanoic acid, cobalt salt	Rat - Oral - LD50	1530 mg/kg
	Rat - Female - Oral - LD50	1098 mg/kg

**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)
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	10000	N/A	N/A	N/A	N/A
phthalic anhydride	1530	N/A	N/A	N/A	N/A
neodecanoic acid, cobalt salt	1098	N/A	N/A	N/A	N/A

#### Skin corrosion/irritation

Not available.

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

#### Ingredient name

hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics  
1-methoxy-2-propanol  
neodecanoic acid, cobalt salt

#### Conclusion/Summary

May cause mild skin irritation  
Non-irritating to the skin.  
Non-irritating to the skin.

#### Serious eye damage/eye irritation

Product/ingredient name	Result	Exposure	Observation
phthalic anhydride	Rabbit - Eyes - Moderate irritant	Amount/concentration applied: 50 mg	-

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

1015 Heat Resistant Alu (brush)

## SECTION 11: Toxicological information

### Ingredient name

hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics  
1-methoxy-2-propanol  
neodecanoic acid, cobalt salt

### Conclusion/Summary

Non-irritating to the eyes.  
Non-irritating to the eyes.  
Non-irritating to the eyes.

### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : May cause drowsiness or dizziness.

### Respiratory or skin sensitization

Product/ingredient name	Species - Route of exposure	Result
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Rabbit - skin	Result: Not sensitizing

### Skin

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

### Ingredient name

1-methoxy-2-propanol  
neodecanoic acid, cobalt salt

### Conclusion/Summary

Non-sensitiser to skin.  
May cause sensitisation by skin contact.

### 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

hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics  
1-methoxy-2-propanol  
phthalic anhydride

#### Result

STOT SE 3, H336 (Narcotic effects)  
STOT SE 3, H336 (Narcotic effects)  
STOT SE 3, H335 (Respiratory tract irritation)

### Specific target organ toxicity (repeated exposure)

## SECTION 11: Toxicological information

Product/ingredient name	Result
Tridecanoic acid, cobalt salt	STOT RE 1, H372

### Aspiration hazard

Product/ingredient name	Result
Hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	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: Oral, Dermal, Inhalation, Eyes.

### Potential acute health effects

<b>Eye contact</b>	: No known significant effects or critical hazards.
<b>Inhalation</b>	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
<b>Skin contact</b>	: Defatting to the skin. May cause skin dryness and irritation.
<b>Ingestion</b>	: Can cause central nervous system (CNS) depression.

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

<b>Eye contact</b>	: No specific data.
<b>Inhalation</b>	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
<b>Skin contact</b>	: Adverse symptoms may include the following: irritation dryness cracking
<b>Ingestion</b>	: No specific data.

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

#### Short term exposure

<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.

#### Long term exposure

<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary [Product]** : Not available.

<b>General</b>	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: No known significant effects or critical hazards.

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

1015 Heat Resistant Alu (brush)

## SECTION 11: Toxicological information

**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.

### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	<b>Acute - NOEC</b> 100 mg/l [72 hours]	Algae
	<b>Chronic - NOEC</b> 0,23 mg/l	Daphnia spec.
	<b>Chronic - NOEC</b> 0,131 mg/l	Fish
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	<b>Acute - LC50</b> >1000 mg/l [4 hours]	Fish
	<b>Acute - EC50</b> >1000 mg/l [4 hours]	Daphnia spec.
	<b>Acute - IC50</b> >1000 mg/l [4 hours]	Algae
1-methoxy-2-propanol	<b>Acute - LC50 - Fresh water</b> 6812 mg/l [96 hours]	Fish - Golden orfe (leuciscus idus)
	<b>Acute - EC50</b> 23300 mg/l [96 hours]	Daphnia spec. - Daphnia spec.
	<b>Acute - EC50</b> >1000 mg/l [7 days]	Algae
phthalic anhydride	<b>Acute - EC50 - Fresh water</b> 78,53 mg/l [96 hours]	Algae - Green algae

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

#### Ingredient name

undecanoic acid, cobalt salt

#### Conclusion/Summary

Harmful to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	-	>80% [28 days] - Readily
	-	>80% [28 days] - Readily
1-methoxy-2-propanol	<b>1,95 gO<sub>2</sub>/g - ThOD</b>	>90% [5 days] - Readily
	-	96% [28 days] - Readily
	-	88 to 92% [28 days] - Readily

**Conclusion/Summary [Product]** : This product has not been tested for biodegradation.

#### Ingredient name

#### Conclusion/Summary

1015 Heat Resistant Alu (brush)

## SECTION 12: Ecological information

Hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics Rapidly lost by degradation and volatilisation.  
 hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics Rapidly lost by degradation and volatilisation.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	-	100%; <28 day(s)	Readily
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	<28 days [Fresh water] [5 to 25 °C]	80%; <28 day(s)	Readily
1-methoxy-2-propanol	<28 days [Fresh water] [5 to 25 °C]	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	5 to 6.7	10 to 2500	High
1-methoxy-2-propanol	<1	<100	Low
phthalic anhydride	1,6	3,4	Low
neodecanoic acid, cobalt salt	-	15600	High

### 12.4 Mobility in soil

#### Soil/water partition coefficient

Product/ingredient name	logK <sub>oc</sub>	K <sub>oc</sub>
1-methoxy-2-propanol	1	10,447
phthalic anhydride	1,6	36,3099

#### Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
Hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	No	No	No	No	No	No	No
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	No	No	No	No	No	No	No
1-methoxy-2-propanol	No	No	No	No	No	No	No
phthalic anhydride	No	No	No	No	No	No	No
neodecanoic acid, cobalt salt	No	No	No	No	No	No	No

**Mobility** : Volatile.

**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]

1015 Heat Resistant Alu (brush)

## SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
hydrocarbons, C9-C11, n-/iso-/ cyclo-alkanes, < 2% aromatics	No	N/A	No	No	No	N/A	No
hydrocarbons, C10-C13, n-/iso-/ cyclo-alkanes, < 2% aromatics	No	No	N/A	No	No	No	N/A
1-methoxy-2-propanol	No	No	No	No	No	No	No
phthalic anhydride	No	N/A	No	No	No	N/A	No
neodecanoic acid, cobalt salt	N/A	N/A	Yes	Yes	N/A	N/A	Yes

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

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
hydrocarbons, C9-C11, n-/iso-/ cyclo-alkanes, < 2% aromatics	No	No	No	No	No	No	No
hydrocarbons, C10-C13, n-/iso-/ cyclo-alkanes, < 2% aromatics	No	No	No	No	No	No	No
1-methoxy-2-propanol	No	No	No	No	No	No	No
phthalic anhydride	No	No	No	No	No	No	No
neodecanoic acid, cobalt salt	No	No	No	No	No	No	No

**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** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Yes.

#### European waste catalogue (EWC)





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

1015 Heat Resistant Alu (brush)

## SECTION 13: Disposal considerations

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

## SECTION 14: Transport information

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

### Additional information ADR

**Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.

**Limited quantity** : 5L  
**Transport Category** : 3  
**Hazard identification number** : 30  
**Classification code** : F1  
**ADR Label Model Number** : 3  
**Excepted Quantity** : E1  
**Tunnel code** : (D/E)  
**Packing instructions** : P001, IBC03, LP01, R001  
**Mixed Packing Provisions** : MP19  
**Special Packing Provisions** : P1  
**Special provisions** : 163, 367, 650

### Additional information ADN

**Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.

**Limited quantity** : 5L  
**Classification code** : F1  
**Special provisions** : 163, 367, 650

### Additional information IMDG

1015 Heat Resistant Alu (brush)

## SECTION 14: Transport information

**Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.

- Limited quantity : 5L
- Emergency schedules : F-E, S-E
- Special provisions : 163, 223, 367, 955

### Additional information IATA

- Passenger and Cargo Aircraft : Quantity limitation 60L Packaging instruction 355
- Cargo aircraft : Quantity limitation 220L Packaging instruction 366
- Limited Quantities - Passenger Aircraft : Quantity limitation 10L Packaging instruction Y344
- Special provisions : A3, A72, A192

**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]
1015 Heat Resistant Alu (brush)	≥90	3

**Labelling** : Not applicable.

##### Synthetic polymer microparticles - Designation 78

**Generic identity of polymer(s)** : Not applicable.

**Total percentage of synthetic polymer microparticles** : Not applicable.

### Other EU regulations

**VOC** : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

**VOC for Ready-for-Use Mixture** : IIA/i. One-pack performance coatings. EU limit value for this product : 500g/l (2010.) This product contains a maximum of 457 g/l VOC.

**Industrial emissions (integrated pollution prevention and control) - Air** : Listed

1015 Heat Resistant Alu (brush)

## SECTION 15: Regulatory information

**Industrial emissions (integrated pollution prevention and control) - Water** : Listed

**Explosive precursors** : This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

### 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.

### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

**Category**

P5c

### National regulations

#### Austria

**VbF class** :  Not applicable

**Storage code** : LGK3

**Classification, packaging and labelling** : Not available.

**Limitation of the use of organic solvents** : Permitted.

**Waste catalogue** : 55513

**References** : Federal Law Gazette Nr. 240/1991 - Regulation on Combustible liquids - Warning Classes  
Ministry of the Economy and Labor 2003 - GKV 2003 - Decree 429/2011  
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878  
REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

#### Belgium

#### Book VI carcinogenic agents annex VI.2-1 - VI.2-3

Ingredient name	Status
<input checked="" type="checkbox"/> Cobalt et ses composés	Listed
Silice	Listed
Silice	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

1015 Heat Resistant Alu (brush)

## SECTION 15: Regulatory information

Regulation (EU) No. 2020/878  
 REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

### Bulgaria

#### References

- : Ordinance No. 9 of 4 August 2006 on the protection of workers from the risks related to exposure to asbestos at work
- Ordinance No. 13 of 30 December 2003 on the protection of workers from the risks related to exposure to chemical agents at work
- Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878
- REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

### Croatia

#### References

- : Regulation about Maximum Exposure Limits of harmful substances in the atmosphere of the working environment NN 92/93
- Regulation about application of personal safety equipment NN 39/06
- Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878
- REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

### Cyprus

#### References

: -

### Czech Republic

#### Storage code

: II

#### 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 dispensers
- EC Regulation 1907/2006 (REACH), EC Regulation 1272/2008 (CLP), EC Regulation 648/2004 on detergents, Act No. 350/2011 Coll. on chemical substances and chemical mixtures, Act No. 185/2001 Coll. on waste, Decree No. 381/2001 Coll., Catalog of waste, Decree No. 383//2001 Coll., on details of waste management, Act No. 258/2000 Coll. on public health, Government Regulation No. 361/2007 Coll., establishing the conditions for health protection at work, Act No. 201/2012 Coll., on air protection and related decrees, Act No. 477/2001 Coll. on packaging, Decree No. 48/1982 Coll., which establishes basic requirements to ensure the safety of work and technical equipment, communication No. 8/2013 Coll. m.s. (ADR), notice No. 23/2013 Coll. (RID), Czech state standards
- REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

### Denmark

#### Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
Tridecanoic acid, cobalt salt	Listed	-

**Product registration number** : PCN

**Fire class** : II-1

**Denmark – Cancer risks** : Listed

**MAL-code** : 2-1

## SECTION 15: Regulatory information

**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 splattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

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

MAL-code: 2-1

**Application:** 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.

- Gas filter mask must be worn.

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

- Air-supplied half mask, arm protectors and eye protection 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. 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.

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 half mask, eye protection, 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** : Not applicable.

1015 Heat Resistant Alu (brush)

## SECTION 15: Regulatory information

- 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
- 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** : H
- 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

### 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

1015 Heat Resistant Alu (brush)

## SECTION 15: Regulatory information

- Social Security Code, Articles L 461-1 to L 461-7** : hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% RG 84  
aromatics  
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% RG 84)  
aromatics  
1-methoxy-2-propanol RG 84  
phthalic anhydride RG 66, RG 66bis  
neodecanoic acid, cobalt salt RG 70
- 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), ausgenommen 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)** : 3

#### Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

#### Named substances

Name	Reference number

#### Danger criteria

Category	Reference number
P5c	1.2.5.3

**Hazard class for water** : 1

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

## SECTION 15: Regulatory information

Number [Class]	Description
5.2.1	Total dust
5.2.5	Organic substances
5.2.5 [I]	Organic substances
5.2.7.1.1 [I]	Carcinogenic substances

- AOX** : The product contains organically bound halogens and can contribute to the AOX value in waste water.
- 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** : Not determined.
- References** : 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

1015 Heat Resistant Alu (brush)

## SECTION 15: Regulatory information

### 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

**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
aluminiumverbindingen, oplosbaar	-	-	-	Development 1B	Listed

**Water Discharge Policy (ABM)** : **A**(2) Toxic for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A

**Remark** : Not available.

**References** : Water Discharge Policy (ABM)  
 Netherlands Emission Guidelines for Air (NeR)  
 List of carcinogenic substances and processes according to article 4.11 of the Working Conditions Act; Health and Safety Act  
 List of mutagenic substances and processes according to article 4.11 of the Working Conditions Act; Health and Safety Act  
 Non-limited list of reprotoxic substances (with additional registration requirement) according to article 4..2a(2) of the Working Conditions Act; Health and Safety Act  
 Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878  
 REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

### Poland

**References** : Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878  
 REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

### Portugal

**References** : Occupational Health and Safety. Professional exposure limit values for chemical agents (NP 1796 2007)  
 Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878  
 REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

### Romania

1015 Heat Resistant Alu (brush)

## SECTION 15: Regulatory information

**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

**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** : 080111\*

**Flammable liquid class (SRVFS 2005:10)** : 2b

**References** : Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878  
REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

### International regulations

#### Stockholm Convention on Persistent Organic Pollutants

List name	Ingredient name	Status
Not listed.		

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

1015 Heat Resistant Alu (brush)

## SECTION 15: Regulatory information

List name	Ingredient name	Status
Not listed.		


**CN code** : 3208 10 90 00

### Inventory list

<b>Australia</b>	: At least one component is not listed.
<b>Canada</b>	: At least one component is not listed.
<b>China</b>	: At least one component is not listed.
<b>Eurasian Economic Union</b>	: <b>Russian Federation inventory</b> : Not determined.
<b>Japan</b>	: <b>Japan inventory (CSCL)</b> : At least one component is not listed. <b>Japan inventory (ISHL)</b> : Not determined.
<b>New Zealand</b>	: At least one component is not listed.
<b>Philippines</b>	: At least one component is not listed.
<b>Republic of Korea</b>	: At least one component is not listed.
<b>Taiwan</b>	: At least one component is not listed.
<b>Thailand</b>	: <input checked="" type="checkbox"/> At least one component is not listed.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: At least one component is not listed.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

 Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- SGG = Segregation Group
- vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Flam. Liq. 3, H226 STOT SE 3, H336	On basis of test data Calculation method

### Full text of abbreviated H statements

#### Europe

<b>Full text of abbreviated H statements</b> :	<table> <tbody> <tr> <td>H226</td> <td>Flammable liquid and vapour.</td> </tr> <tr> <td>H302</td> <td>Harmful if swallowed.</td> </tr> <tr> <td>H304</td> <td>May be fatal if swallowed and enters airways.</td> </tr> <tr> <td>H315</td> <td>Causes skin irritation.</td> </tr> <tr> <td>H317</td> <td>May cause an allergic skin reaction.</td> </tr> <tr> <td>H318</td> <td>Causes serious eye damage.</td> </tr> <tr> <td>H334</td> <td>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</td> </tr> <tr> <td>H335</td> <td>May cause respiratory irritation.</td> </tr> <tr> <td>H336</td> <td>May cause drowsiness or dizziness.</td> </tr> </tbody> </table>	H226	Flammable liquid and vapour.	H302	Harmful if swallowed.	H304	May be fatal if swallowed and enters airways.	H315	Causes skin irritation.	H317	May cause an allergic skin reaction.	H318	Causes serious eye damage.	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	H335	May cause respiratory irritation.	H336	May cause drowsiness or dizziness.
H226	Flammable liquid and vapour.																		
H302	Harmful if swallowed.																		
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H318	Causes serious eye damage.																		
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H335	May cause respiratory irritation.																		
H336	May cause drowsiness or dizziness.																		

1015 Heat Resistant Alu (brush)

## SECTION 16: Other information

H372	Causes 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.

**Full text of classifications**  
**[CLP/GHS]**

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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**Notice to reader**

**IMPORTANT NOTE:** The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

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