Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2016/918



# SAFETY DATA SHEET

1017 Bright Galvanizing (brush)

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

## 1.1 Product identifier

Product name : 1017 Bright Galvanizing (brush)

Product description : Paint.

Product type : Liquid.

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

	Identified uses
Industrial uses Consumer uses Professional uses	

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

e-mail address of person : rpmeurohas@ro-m.com

responsible for this SDS

## 1.4 Emergency telephone number

**Supplier** 

**Telephone number** : +44 (0) 207 858 1228

Hours of operation : 24 / 7

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition : Mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373

Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

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

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## **SECTION 2: Hazards identification**

**Hazard pictograms** 









Signal word : Warning

**Hazard statements**: Flammable liquid and vapour.

Causes serious eye irritation.

Causes skin irritation.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.

**Precautionary statements** 

General: P102 - Keep out of reach of children.

P103 - Read label before use.

P101 - If medical advice is needed, have product container or label at hand.

Prevention: P210 - Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

P260 - Do not breathe vapour.

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

P280 - Wear protective gloves:

- nitrile rubber or polyvinyl alcohol (PVA) P273 - Avoid release to the environment.

Response : P303 - IF ON SKIN (or hair):

P361 - Take off immediately all contaminated clothing.

P352 - Wash with plenty of soap and water.

P391 - Collect spillage. P305 - IF IN EYES:

P351 - Rinse cautiously with water for several minutes.

P338 - Remove contact lenses, if present and easy to do. Continue rinsing.

P314 - Get medical attention if you feel unwell.

Storage : P403 - Store in a well-ventilated place.

P235 - Keep cool.

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

national and international regulations.

**Hazardous ingredients** 

Supplemental label elements

xylene (mixture of isomeres)Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and : Not applicable

articles

**UFI Code** : TG10-R08S-M00T-22YX

**Special packaging requirements** 

Containers to be fitted with child-resistant

: Not applicable.

fastenings

Tactile warning of danger: Yes, applicable.

2.3 Other hazards

Other hazards which do not result in classification

: None known.

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

3.2 Mixtures : Mixture

			<u>Classification</u>	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
zincpowder, stabilised	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6 Index: 030-001-01-9	≥25 - ≤50	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
xylene (mixture of isomeres)	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304	[1] [2]
aluminium powder (stabilized)	EC: 231-072-3 CAS: 7429-90-5 Index: 013-002-00-1	≤10	Flam. Sol. 1, H228 Water-react. 2, H261	[2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304	[1] [2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤5	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	REACH #: 01-2119457273-39 EC: 918-481-9 Index: 649-327-00-6	≤3	Asp. Tox. 1, H304 EUH066	[1] [2]
hydrocarbons, aromatic, C9	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6 Index: 649-356-00-4	≤3	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0,3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d (Unborn child) STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 See Section 16 for the full text of the H statements declared above.	[1] [2]

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

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

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

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

#### 4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery

position and seek medical advice.

**Eye contact**: Remove contact lenses, irrigate copiously with clean, fresh water, holding the

eyelids apart for at least 10 minutes and seek immediate medical advice.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognised skin cleanser. Do NOT use solvents or thinners.

**Ingestion** : If swallowed, seek medical advice immediately and show the container or label.

Keep person warm and at rest. Do NOT induce vomiting.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person

providing aid to give mouth-to-mouth resuscitation.

## 4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

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

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

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

#### Over-exposure signs/symptoms

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

pain or irritation

watering redness

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

respiratory tract irritation

coughing

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

irritation redness

**Ingestion**: No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

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

See toxicological information (Section 11)

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

: Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

Unsuitable extinguishing media

: Do not use water jet.

## 5.2 Special hazards arising 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. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition 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** 

: 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

## 6.3 Methods and material for containment and cleaning up

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## **SECTION 6: Accidental release measures**

## **Small spill**

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

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

# 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. 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

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

## Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

## Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

## Additional information on storage conditions

Observe label precautions. Store between the following temperatures: 0 to 30°C (32 to 86°F). Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Seveso Directive - Reporting thresholds (in tonnes)

**Danger criteria** 

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

	Notification and MAPP threshold	Safety report threshold	
P5c	5000	50000	
E1	100	200	

## 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**

Product/ingredient name	Exposure limit values
xylene (mixture of isomeres)	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.  STEL: 441 mg/m³ 15 minutes.  STEL: 100 ppm 15 minutes.  TWA: 220 mg/m³ 8 hours.  TWA: 50 ppm 8 hours.
aluminium powder (stabilized)	EH40/2005 WELs (United Kingdom (UK), 12/2011).  TWA: 10 mg/m³ 8 hours. Form: inhalable dust  TWA: 4 mg/m³ 8 hours. Form: respirable dust
ethylbenzene  hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.  STEL: 552 mg/m³ 15 minutes.  STEL: 125 ppm 15 minutes.  TWA: 441 mg/m³ 8 hours.  TWA: 100 ppm 8 hours.  EH40/2005 WELs (United Kingdom (UK), 8/2007).  STEL: 850 mg/m³, (as turpentine (150 ppm)) 15 minutes. Form:
1270 aromatics	Vapour TWA: 566 mg/m³, (as turpentine (100 ppm)) 8 hours. Form: Vapour
toluene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.  STEL: 384 mg/m³ 15 minutes.  STEL: 100 ppm 15 minutes.  TWA: 191 mg/m³ 8 hours.  TWA: 50 ppm 8 hours.

# Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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

## **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
zincpowder, stabilised	DNEL	Long term Inhalation	5 mg/m³	Workers	-
	DNEL	Inhalation	2,5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Oral	50 mg/day	Workers	Local
	DNEL	Short term Dermal	5000 mg/ day	Workers	Local
xylene (mixture of isomeres)	DNEL	Short term Inhalation	289 mg/m³	Workers	Local
	DNEL	Short term Inhalation	289 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	174 mg/m³	Consumers	Local
	DNEL	Short term Inhalation	174 mg/m³	Consumers	Systemic
	DNEL	Long term Inhalation	14,8 mg/m³	Consumers	Systemic
	DNEL	Long term Dermal	108 mg/m <sup>3</sup>	Consumers	Systemic
ethylbenzene	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	15 mg/m³	Consumers	Systemic
	DNEL	Long term Oral	1,6 mg/kg bw/day	Consumers	Systemic
zinc oxide	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	2,5 mg/m³	Consumers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	0,83 mg/ kg bw/day	Consumers	Systemic

## **PNECs**

Product/ingredient name	<b>Compartment Detail</b>	Value	Method Detail
zincpowder, stabilised	Fresh water	20,6 μg/l	-
•	Marine	6,1 µg/l	-
	Sewage Treatment	52 μg/l	-
	Plant		
	Fresh water sediment	118 mg/kg dwt	-
	Marine water sediment	56,5 mg/kg dwt	-
	Soil	35,6 mg/kg dwt	-
xylene (mixture of isomeres)	Fresh water	0,327 mg/l	-
,	Marine water	0,327 mg/l	-
	Fresh water sediment	12,46 mg/kg	-
	Marine water sediment	12,46 mg/kg	-
	Soil	2,31 mg/kg	-
	Sewage Treatment	6,58 mg/l	-
	Plant		
ethylbenzene	Fresh water	0,1 mg/l	-
-	Marine water	0,01 mg/l	-
	Fresh water sediment	13,7 mg/kg	-
	Marine water sediment	1,37 mg/kg	-

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

Soil	2,68 mg/kg	-
Sewage Treatment	9,6 mg/l	-
Plant		
Fresh water	25,6 μg/l	-
Marine	7,6 μg/l	-
Sewage Treatment	64,7 µg/l	-
Plant		
Fresh water sediment	146 mg/kg dwt	-
Marine water sediment	70,3 mg/kg dwt	-
Soil	44,3 mg/kg dwt	-
	Sewage Treatment Plant Fresh water Marine Sewage Treatment Plant Fresh water sediment Marine water sediment	Sewage Treatment Plant Fresh water Marine Sewage Treatment Plant Plant Fresh water sediment Marine water sediment Plant Tresh water sediment Marine water sediment Plant Tresh water sediment To,3 mg/kg dwt

#### 8.2 Exposure controls

Appropriate engineering controls

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

## **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: safety glasses with side-shields (EN 166).

## **Skin protection**

## **Hand protection**

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

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

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

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

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

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

**Gloves** 

: For prolonged or repeated handling, use the following type of gloves:

Recommended: > 8 hours (breakthrough time): nitrile rubber (0.5mm) or 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:

EN 374

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: disposable overall (EN 1149-1).

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## SECTION 8: Exposure controls/personal protection

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) (EN 140).

**Environmental exposure** controls

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

# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Liquid. Colour : Silvery. **Odour** Solvent-like **Odour threshold** Not available. pН Not available. Melting point/freezing point : <-30°C

Initial boiling point and

boiling range

: >140°C

Flash point

: Closed cup: 25°C [ISO EN DIN 1523 / DIN 53213-1]

**Evaporation rate** 

0.8 (Butyl acetate. = 1)

Flammability (solid, gas)

: Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.

Slightly flammable in the presence of the following materials or conditions: heat. Vapour may travel a considerable distance to source of ignition and flash back.

Upper/lower flammability or

explosive limits

: Lower: 1% Upper: 8%

Vapour pressure

: 0,8 kPa [room temperature]

Vapour density : >3 [Air = 1] Relative density : 1.77

Solubility(ies)

: Very slightly soluble in the following materials: acetone.

Partition coefficient: n-octanol/: Not available.

**Auto-ignition temperature** : >400°C **Decomposition temperature** : Not available.

**Viscosity** 

: Dynamic (room temperature): 1200 mPa·s

Kinematic (40°C): >0,205 cm<sup>2</sup>/s

**Explosive properties** 

Slightly explosive in the presence of the following materials or conditions: open

flames, sparks and static discharge and heat.

**Oxidising properties** : Not available.

#### 9.2 Other information

No additional information.

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# **SECTION 10: Stability and reactivity**

10.1 Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

: Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

: When exposed to high temperatures may produce hazardous decomposition

products.

10.5 Incompatible materials

: Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO2 and

smoke can be generated.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
xylene (mixture of isomeres)	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	50000 mg/m <sup>3</sup>	2 hours
	LCLo Inhalation Vapour	Rat	4000 ppm	4 hours
	LD50 Oral	Rat	3500 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and	Mouse	2500 mg/m <sup>3</sup>	4 hours
	mists			
	LC50 Inhalation Dusts and	Rat	>5700 mg/m <sup>3</sup>	4 hours
	mists			
	LD50 Oral	Rat	>15 g/kg	-
hydrocarbons, C10-C13, n-/	LC50 Inhalation Vapour	Rat	5000 mg/m <sup>3</sup>	4 hours
iso-/ cyclo-alkanes, < 2%				
aromatics				
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
hydrocarbons, aromatic, C9	LD50 Oral	Mouse	8400 mg/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours

Conclusion/Summary

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

Acute toxicity estimates

Not available.

**Irritation/Corrosion** 

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# **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
zincpowder, stabilised	Skin - Mild irritant	Human	-	72 hours 300	-
•				Micrograms	
				Intermittent	
xylene (mixture of isomeres)	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				milligrams	
	Skin - Mild irritant	Rat	-	8 hours 60	-
				microliters	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
	l			milligrams	
	Skin - Moderate irritant	Rabbit	-	100 Percent	-
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500	-
	Skin - Mild irritant	Dobbit		milligrams 24 hours 15	
	Skiri - Mila irritarit	Rabbit	-	milligrams	-
zinc oxide	Eyes - Mild irritant	Rabbit		24 hours 500	
ZITIC OXIGE	Lyes - Mild irritarit	Rabbit	_	milligrams	_
	Skin - Mild irritant	Rabbit	_	24 hours 500	_
	OKIT - WIIIG ITTIGITE	Rabbit		milligrams	
hydrocarbons, aromatic, C9	Eyes - Mild irritant	Rabbit	_	24 hours 100	_
Trydrodarbono, dromatio, co	Lyos Willa II Italia	rabbit		microliters	
toluene	Eyes - Mild irritant	Rabbit	_	0,5 minutes	_
10.00.10		1 10.00		100	
				milligrams	
	Eyes - Mild irritant	Rabbit	_	870	_
				Micrograms	
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				milligrams	
	Skin - Mild irritant	Pig	-	24 hours 250	-
				microliters	
	Skin - Mild irritant	Rabbit	-	435	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	500	-
				milligrams	

## **Conclusion/Summary**

Skin : Causes skin irritation.

**Eyes** : Causes serious eye irritation.

**Respiratory**: May cause damage to organs through prolonged or repeated exposure if inhaled.

May cause respiratory irritation.

## **Sensitisation**

**Conclusion/Summary** 

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

## **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
hydrocarbons, aromatic, C9	OECD 471	Subject: Bacteria	Negative

**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** 

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# **SECTION 11: Toxicological information**

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

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

**Teratogenicity** 

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

## Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene (mixture of isomeres)	Category 3	Not applicable.	Respiratory tract irritation
hydrocarbons, aromatic, C9	Category 3		Respiratory tract irritation and Narcotic effects
toluene	Category 3	Not applicable.	Narcotic effects

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	Not determined	Not determined hearing organs Not determined

#### **Aspiration hazard**

Product/ingredient name	Result
xylene (mixture of isomeres)	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	ASPIRATION HAZARD - Category 1
hydrocarbons, aromatic, C9	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

## 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 : May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

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# **SECTION 12: Ecological information**

## 12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
zincpowder, stabilised	Acute EC50 106 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential	72 hours
	Acute EC50 0,572 mg/l Marine water	growth phase Algae - Ulva pertusa	96 hours
	Acute EC50 0,572 mg/l Marine water  Acute EC50 10000 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute LC50 107 μg/l Fresh water	Daphnia spec Daphnia pulex	48 hours
	Acute LC50 182 µg/l Fresh water	Fish - Oncorhynchus tshawytscha	96 hours
	Chronic EC10 27,3 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Chronic EC10 59,2 µg/l Fresh water	Daphnia spec Daphnia magna	21 days
	Chronic NOEC 9 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
	Chronic NOEC 178 µg/l Marine water	Crustaceans - Palaemon elegans	21 days
ethylbenzene	Acute EC50 3600 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 9,46 to 6530 µg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 4,4 to 2970 µg/l Fresh water	Daphnia spec Daphnia magna - Neonate	48 hours
	Acute LC50 13,7 to 8780 μg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute LC50 5200 μg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 11 to 9090 μg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 4200 μg/l Fresh water Chronic NOEC 1000 μg/l Fresh water	Fish - Oncorhynchus mykiss Algae - Pseudokirchneriella subcapitata	96 hours 96 hours
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Acute EC50 >1000 mg/l	Daphnia spec.	4 hours
	Acute IC50 >1000 mg/l	Algae	4 hours
	Acute LC50 >1000 mg/l	Fish	4 hours
toluene	Acute EC50 433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 12,5 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 6 mg/l Fresh water	Daphnia spec Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 15,5 ppm Marine water	Crustaceans - Palaemonetes pugio - Adult	48 hours
	Acute LC50 5,5 mg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 500 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia spec Daphnia magna	21 days

**Conclusion/Summary** 

: Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

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## **SECTION 12: Ecological information**

Product/ingredient name	Test	Result	Dose	Inoculum
xylene (mixture of isomeres)	-	90 % - Readily - 5 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene (mixture of isomeres) ethylbenzene hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	-	- - 80%; < 28 day(s)	Readily Readily Readily
hydrocarbons, aromatic, C9	-	-	Readily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene (mixture of isomeres)	3,12	8.1 to 25.9	low
ethylbenzene	3,6	-	low
zinc oxide	-	60960	high
hydrocarbons, aromatic, C9	3.7 to 4.5	-	high
toluene	2,73	90	low

## 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility

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

pressure.

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance.

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

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

Hazardous waste

Yes.

**Disposal considerations** 

: Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

#### **European waste catalogue (EWC)**

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

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# **SECTION 13: Disposal considerations**

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

#### **Packaging**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Disposal considerations** 

 Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.
 Empty containers must be scrapped or reconditioned.
 Dispose of containers contaminated by the product in accordance with local or national legal provisions.

**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	UN 1263	UN1263	UN 1263	UN 1263
14.2 UN proper shipping name	Paint.[zinc powder, stabilized]	Paint. [zinc powder, stabilized]  Paint. Marine pollutan [zinc powder, stabilized]		Paint.[zinc powder, stabilized]
14.3 Transport hazard class(es)	3	3 (9)	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.
Additional information	Remarks: This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.4 to 4.1.1.8 according to 2.2.3.1.5. 2.  ADR Tunnel code: (D/E)		Emergency schedules (EmS): F-E + S-E  Viscous substance exemption This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4. 1.1.4 to 4.1.1.8 according to 2.3.2.5.	Passenger and Cargo Aircraft Quantity limitation: 60 L Packaging instructions: 355 Cargo Aircraft Only Quantity limitation: 220 L Packaging instructions: 366 Limited Quantities - Passenger Aircraft Quantity limitation: 10 L Packaging instructions: Y 344

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## **SECTION 14: Transport information**

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.

## **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

: 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 497 g/l VOC.

: All components are listed or exempted.

**Europe inventory** 

**Industrial emissions** (integrated pollution

prevention and control) -

Air

: Listed

**Industrial emissions** (integrated pollution prevention and control) -

Water

: Listed

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
toluene	-	-	Repr. 2, H361d (Unborn child)	-

#### Ozone depleting substances (1005/2009/EU)

Not listed.

## Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

## **Category**

P<sub>5</sub>c

E1

## **National regulations**

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## **SECTION 15: Regulatory information**

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

References

: EH40/2005 Workplace exposure limits

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

Regulation (EU) No. 2016/918

## **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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

Not listed.

CN code : 3208 90 91

**International lists** 

**National inventory** 

Australia : At least one component is not listed.

Canada : Not determined.

China : At least one component is not listed.

Japan : Japan inventory (ENCS): At least one component is not listed.

Japan inventory (ISHL): At least one component is not listed.

Malaysia : Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : Not determined.

Turkey : Not determined.

United States : Not determined.

15.2 Chemical safety

assessment

: No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

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 PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

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

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# **SECTION 16: Other information**

Classification	Justification
Flam. Liq. 3, H226	Expert judgment
Skin Irrit. 2, H315	Expert judgment
Eye Irrit. 2, H319	Expert judgment
STOT SE 3, H335	Expert judgment
STOT RE 2, H373	Expert judgment
Aquatic Acute 1, H400 (M=1)	Expert judgment
Aquatic Chronic 1, H410 (M=1)	Expert judgment

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

Full	text	of	ab	bre	via	ated	Н
stat	emei	nte					

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or
	repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

# Full text of classifications [CLP/GHS]

	Toxio to aquatio ine with long labiting effects.
Acute Tox. 4, H312	ACUTE TOXICITY (dermal) - Category 4
Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
Aquatic Acute 1, H400	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category
	1
Aquatic Chronic 1, H410	LONG-TERM (CHRONIC) AQUATIC HAZARD -
	Category 1
Aquatic Chronic 2, H411	LONĞ-TERM (CHRONIC) AQUATIC HAZARD -
,	Category 2
Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
Flam. Sol. 1, H228	FLAMMABLE SOLIDS - Category 1
Repr. 2, H361d	REPRODUCTIVE TOXICITY (Unborn child) - Category 2
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY - REPEATED
	EXPOSURE - Category 2
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE
	EXPOSURE (Respiratory tract irritation) - Category 3
STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY - SINGLE
3.3.323,1.000	EXPOSURE (Narcotic effects) - Category 3
Water-react. 2, H261	SUBSTANCES AND MIXTURES WHICH IN CONTACT
Water-react. 2, 11201	
	WITH WATER EMIT FLAMMABLE GASES - Category 2

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**Notice to reader** 

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2016/918

1017 Bright Galvanizing (brush)

## **SECTION 16: Other information**

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

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