

SAFETY DATA SHEET



1017 Galva Zinc-Alu (brush)

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

1.1 Product identifier

Product name : 1017 Galva Zinc-Alu (brush)
Product description : Paint
Product type : Liquid.
UFI : E5W1-V03J-F00C-KGK9
Product code : ROI0005

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

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

1.3 Details of the supplier of the safety data sheet

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Tor Coatings Limited
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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

Supplier

Telephone number United Kingdom: : +44 870 8200418 / +44 2038073798
Great Britain
Hours of operation : 24 / 7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

SECTION 2: Hazards identification

Flam. Liq. 3, H226
 Skin Irrit. 2, H315
 Eye Irrit. 2, H319
 STOT RE 2, H373
 Aquatic Acute 1, H400
 Aquatic Chronic 1, H410

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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.
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H373 - May cause damage to organs through prolonged or repeated exposure.
 H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

General

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

Prevention

: P280 - Wear protective gloves. Wear eye or face protection.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P273 - Avoid release to the environment.
 P260 - Do not breathe vapour.

Response

: P391 - Collect spillage.
 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

: reaction mass of ethylbenzene and xylene

Supplemental label elements

: Not applicable.

Supplemental label elements : Detergents - Regulation (EC) No 907/2006

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

: Not applicable.

Tactile warning of danger

: Yes, applicable.

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SECTION 2: Hazards identification

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006. : Not applicable

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
zinc powder, stabilized	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6 Index: 030-001-01-9	≥50 - ≤75	Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10)	[1]
reaction mass of ethylbenzene and xylene	EC: 905-588-0	≥10 - ≤17	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1]
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	REACH #: 01-2119463258-33 EC: 919-857-5	≥10 - ≤15	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 Index: 649-327-00-6	≤2,2	Asp. Tox. 1, H304 EUH066	[1] [2]
hydrocarbons, aromatic, C9	REACH #: 01-2119455851-35 EC: 918-668-5	≤2,1	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	REACH #: 01-2119457273-39 CAS: 64742-48-9	≤0,14	Asp. Tox. 1, H304 EUH066	[1]
lead	EC: 231-100-4 CAS: 7439-92-1 Index: 082-013-00-1	<0,03	Repr. 1A, H360 Lact., H362 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=100)	[1] [2] [3]
See Section 16 for the full text of the H statements declared above.				

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SECTION 3: Composition/information on ingredients

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 with carcinogenic, mutagenic or reproductive toxicity properties

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 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 following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. 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 delayedOver-exposure signs/symptoms

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

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

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

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. 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 combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

5.3 Advice for firefighters

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

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS 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

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.

SECTION 6: Accidental release measures

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

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

Store between the following temperatures: 0 to 30°C (32 to 86°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. 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 E1	5000 tonnes 100 tonnes	50000 tonnes 200 tonnes

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Recommended by manufacturer (GB, 2009) [hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics] TWA 8 hours: 1200 mg/m ³ (as hydrocarbon mixture (A) (197 ppm)). Form: Vapour.
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Recommended by manufacturer (GB, 2009) [hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics] TWA 8 hours: 1200 mg/m ³ ((184 ppm)). Form: Vapour.
lead	EH40/2005 WELs (United Kingdom (UK), 1/2020) Carc. TWA 8 hours: 0,15 mg/m ³ .

Biological exposure indices

Product/ingredient name	Exposure indices
lead	EU Biological limit values (Europe, 3/2024) [lead and its inorganic compounds] BEI surveillance: 30 µg/100 ml, lead [in blood]. BLV: 70 µg/100 ml, lead [in blood]. BEI surveillance - females of reproductive capacity: 4,5 µg/100 ml, lead [in blood].

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS 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
zinc powder, stabilized	DNEL - Workers - Long term - Inhalation	5 mg/m ³	<u>Effects</u> : Local
	DNEL - Workers - Long term - Inhalation	2,5 mg/m ³	<u>Effects</u> : Local
	DNEL - Workers - Short term - Oral	50 mg/day	<u>Effects</u> : Local
	DNEL - Workers - Short term - Dermal	5000 mg/day	<u>Effects</u> : Local
	DNEL - Workers - Long term - Dermal	83 mg/kg bw/day	<u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation	5 mg/m ³	<u>Effects</u> : Systemic
	DNEL - General population - Long term - Oral	0,83 mg/kg bw/day	<u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation	2,5 mg/m ³	<u>Effects</u> : Systemic
	DNEL - General population - Long term - Dermal	83 mg/kg bw/day	<u>Effects</u> : Systemic
reaction mass of ethylbenzene and xylene	DNEL - Workers - Short term -	442 mg/m ³	<u>Effects</u> : Local

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SECTION 8: Exposure controls/personal protection

	Inhalation		
	DNEL - Workers - Short term - Inhalation	442 mg/m ³	<u>Effects:</u> Systemic
	DNEL - Workers - Long term - Inhalation	221 mg/m ³	<u>Effects:</u> Local
	DNEL - Workers - Long term - Inhalation	221 mg/m ³	<u>Effects:</u> Systemic
	DNEL - Workers - Long term - Dermal	212 mg/kg bw/day	<u>Effects:</u> Systemic
	DNEL - General population - Short term - Inhalation	260 mg/m ³	<u>Effects:</u> Local
	DNEL - General population - Short term - Inhalation	260 mg/m ³	<u>Effects:</u> Systemic
	DNEL - General population - Long term - Inhalation	65,3 mg/m ³	<u>Effects:</u> Local
	DNEL - General population - Long term - Inhalation	65,3 mg/m ³	<u>Effects:</u> Systemic
	DNEL - General population - Long term - Dermal	125 mg/kg bw/day	<u>Effects:</u> Systemic
	DNEL - General population - Long term - Oral	12,5 mg/kg bw/day	<u>Effects:</u> Systemic
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	DNEL - Workers - Long term - Dermal	280 mg/kg	<u>Effects:</u> Systemic
	DNEL - Workers - Short term - Inhalation	871 mg/m ³	<u>Effects:</u> Systemic
	DNEL - General population - Consumers - Long term - Oral	125 mg/kg bw/day	<u>Effects:</u> Systemic
	DNEL - General population - Consumers - Long term - Inhalation	185 mg/m ³	<u>Effects:</u> Systemic
	DNEL - General population - Consumers - Long term - Dermal	125 mg/kg	<u>Effects:</u> Systemic
hydrocarbons, aromatic, C9	DNEL - Workers - Long term - Inhalation	150 mg/m ³	<u>Effects:</u> Systemic
	DNEL - Workers - Long term - Dermal	25 mg/kg	<u>Effects:</u> Systemic
	DNEL - General population - Long term - Dermal	11 mg/kg	<u>Effects:</u> Systemic
	DNEL - General population - Long term - Inhalation	32 mg/m ³	<u>Effects:</u> Systemic
	DNEL - General population - Long term - Oral	11 mg/kg	<u>Effects:</u> Systemic
hydrocarbons, C10-C13, n-/ iso-/ cyclo-	DNEL - Workers - Long term -	208 mg/kg bw/	<u>Effects:</u>

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SECTION 8: Exposure controls/personal protection

alkanes, < 2% aromatics	Dermal	day	Systemic
	DNEL - General population - Long term - Dermal	125 mg/kg bw/day	Effects: Systemic
	DNEL - General population - Long term - Inhalation	185 mg/m ³	Effects: Systemic
	DNEL - General population - Long term - Oral	125 mg/m ³	Effects: Systemic
	DNEL - Workers - Long term - Inhalation	871 mg/m ³	Effects: Systemic

PNECs

Product/ingredient name	Result	Value	Remarks
zinc powder, stabilized	Fresh water	20,6 µg/l	-
	Marine	6,1 µg/l	-
	Sewage Treatment Plant	52 µg/l	-
	Fresh water sediment	118 mg/kg dwt	-
	Marine water sediment	56,5 mg/kg dwt	-
	Soil	35,6 mg/kg dwt	-
	Fresh water sediment	235,6 mg/kg dwt	-
	Marine water sediment	121 mg/kg dwt	-
	Soil	106,8 mg/kg dwt	-
	Sewage Treatment Plant	100 µg/l	-
reaction mass of ethylbenzene and xylene	Fresh water	0,327 mg/l	-
	Marine water	0,327 mg/l	-
	Fresh water sediment	12,46 mg/kg	-
	Marine water sediment	12,46 mg/kg	-
	Soil	2,31 mg/kg	-
	Sewage Treatment Plant	6,58 mg/l	-

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

SECTION 8: Exposure controls/personal protection

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

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

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

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

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

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

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

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

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

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): polyethylene (PE) 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: 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 British Standard BS EN 1149 for further information on material and design requirements and test methods. Recommended: Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

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

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

Physical state	: Liquid.
Colour	: Silver.
Odour	: Solvent-like
Odour threshold	: Not available.
Melting point/freezing point	: Not applicable.
Initial boiling point and boiling range	: 136 to 145°C (276,8 to 293°F) [Literature Reaction mass of ethylbenzene and xylene]
Flammability (solid, gas)	: 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.
Lower and upper explosion limit	: Lower: 0,69% [Calculated (Le Chatelier mixture rule)] Upper: 8,97% [Calculated (Le Chatelier mixture rule)]
Flash point	: Closed cup: 23°C (73,4°F) [Literature Reaction mass of ethylbenzene and xylene]
Auto-ignition temperature	: >230°C (>446°F) [Literature hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics]
Decomposition temperature	: Not applicable.
pH	: Not applicable.
pH : Justification	: Product is non-soluble (in water).
Viscosity	: Dynamic (room temperature): 1075 to 1250 mPa·s [ASTM D562 [KU]] Kinematic (room temperature): 600 to 710 mm ² /s [calculated.] Kinematic (40°C): >20,5 mm ² /s [calculated.]

Solubility(ies)

:

Media	Result
cold water	Not soluble
hot water	Not soluble

Solubility in water	: Not available.
Partition coefficient: n-octanol/ water	: Not applicable.
Vapour pressure	: 11060 kPa (82957 mm Hg) [Literature Reaction mass of ethylbenzene and xylene]
Evaporation rate	: 0,8 (Butyl acetate. = 1)
Relative density	: Not available.
Density	: 1,76 to 1,79 g/cm ³ [20°C (68°F)] [DIN 53217]
Vapour density	: >3 [Air = 1]
Explosive properties	: 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.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

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SECTION 10: Stability and reactivity

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

10.2 Chemical stability : The product is stable.

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

10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame). 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.

10.5 Incompatible materials : Reactive or incompatible with the following materials:
oxidising materials

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Value
reaction mass of ethylbenzene and xylene	Rabbit - Dermal - LD50	12126 mg/kg
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 ³ [4 hours]
hydrocarbons, aromatic, C9	Rat - Oral - LD50	8400 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)
1017 Galva Zinc-Alu (brush)	N/A	10061,7	N/A	N/A	13,7
reaction mass of ethylbenzene and xylene	N/A	1100	N/A	N/A	1,5
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	10000	N/A	N/A	N/A	N/A
hydrocarbons, aromatic, C9	8400	N/A	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name	Result	Exposure	Observation
zinc powder, stabilized	Human - Skin - Mild irritant	Amount/concentration applied: 300 ug l	-

Conclusion/Summary [Product] : Causes skin irritation.

Ingredient name

Conclusion/Summary

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SECTION 11: Toxicological information

reaction mass of ethylbenzene and xylene hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics hydrocarbons, aromatic, C9

Harmful in contact with skin
May cause mild skin irritation

Non-irritating to the skin.

Serious eye damage/eye irritation

Product/ingredient name	Result	Exposure	Observation
hydrocarbons, aromatic, C9	Rabbit - Eyes - Mild irritant	Amount/concentration applied: 100 UI	-

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

Ingredient name

hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics
hydrocarbons, aromatic, C9

Conclusion/Summary

Non-irritating to the eyes.

Non-irritating to the eyes.

Respiratory corrosion/irritation

Not available.

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

Ingredient name

reaction mass of ethylbenzene and xylene hydrocarbons, aromatic, C9

Conclusion/Summary

Harmful by inhalation.

May cause respiratory irritation.

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

hydrocarbons, aromatic, C9

Conclusion/Summary

Non-sensitiser to skin.

Respiratory

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

Germ cell mutagenicity

Not available.

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

Ingredient name

hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics

Conclusion/Summary

Not mutagenic in a standard battery of genetic toxicological tests.

Carcinogenicity

Not available.

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

Ingredient name**Conclusion/Summary**

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hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics

No carcinogenic effect.

Reproductive toxicity

Product/ingredient name	Species - Route of exposure	Dose - Exposure	Effects
hydrocarbons, aromatic, C9	Mammal - species unspecified - Unreported	-	-

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

Specific target organ toxicity (single exposure)

Product/ingredient name

reaction mass of ethylbenzene and xylene
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics
hydrocarbons, aromatic, C9

Result

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

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

Specific target organ toxicity (repeated exposure)

Product/ingredient name

reaction mass of ethylbenzene and xylene

Result

STOT RE 2, H373

Aspiration hazard

Product/ingredient name

reaction mass of ethylbenzene and xylene
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics
hydrocarbons, aromatic, C9
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics

Result

ASPIRATION HAZARD - Category 1
ASPIRATION HAZARD - Category 1

ASPIRATION HAZARD - Category 1

ASPIRATION HAZARD - Category 1
ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

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

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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

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

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SECTION 11: Toxicological information

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

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

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species
zinc powder, stabilized	Chronic - NOEC - Fresh water 8,3 µg/l [4 weeks]	Fish - common carp
	Acute - EC50 - Fresh water 175 µg/l [96 hours]	Fish - Fathead minnow - Larvae
	Acute - EC50 0,005 mg/l [72 hours]	Algae - Green algae
	Chronic - EC10 6,3 µg/l [21 days]	Daphnia spec. - Water flea - Neonate
	Acute - EC50 - Fresh water 34 µg/l [48 hours]	Crustaceans - Water flea - Neonate
	Chronic - EC10 - Fresh water 27,3 µg/l [72 hours]	Algae - Green algae - Exponential growth phase
reaction mass of ethylbenzene and xylene	NOEC 0,44 mg/l [72 hours]	Algae
	Chronic - NOEC 0,96 mg/l [7 days]	Daphnia spec.
	Chronic - NOEC 1,3 mg/l [56 days]	Fish - Rainbow trout (oncorhynchus mykiss)
	Chronic - NOEC 1,17 mg/l [7 days]	Daphnia spec. - Zebra barbel
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Acute - NOEC 100 mg/l [72 hours]	Algae
	Chronic - NOEC 0,23 mg/l	Daphnia spec.

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SECTION 12: Ecological information

hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics lead	Chronic - NOEC 0,131 mg/l	Fish
	Acute - LC50 >1000 mg/l [4 hours]	Fish
	Acute - EC50 >1000 mg/l [4 hours]	Daphnia spec.
	Acute - IC50 >1000 mg/l [4 hours]	Algae
	Acute - LC50 - Fresh water 530 µg/l [48 hours]	Crustaceans - Water flea
	Acute - LC50 - Fresh water 4500 µg/l [48 hours]	Crustaceans - Water flea
	Acute - LC50 - Fresh water 0,44 ppm [96 hours]	Fish - common carp - Juvenile (Fledgling, Hatchling, Weanling)
	Chronic - NOEC - Fresh water 0,03 µg/l [4 weeks]	Fish - common carp
Acute - EC50 - Fresh water 20,5 µg/l [72 hours]	Algae - Green algae - Exponential growth phase	
Chronic - EC10 - Fresh water 3,9 µg/l [72 hours]	Algae - Green algae - Exponential growth phase	

Conclusion/Summary [Product] : Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Ingredient name

zinc powder, stabilized

hydrocarbons, aromatic, C9

Conclusion/Summary

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

Toxic 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

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

Ingredient name

hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics

hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics

hydrocarbons, aromatic, C9

Conclusion/Summary

Rapidly lost by degradation and volatilisation.

Rapidly lost by degradation and volatilisation.

Biodegradable according to OECD.

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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
hydrocarbons, aromatic, C9	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
reaction mass of ethylbenzene and xylene	3,6	-	Low
hydrocarbons, C9-C11, n-/iso-/ cyclo-alkanes, < 2% aromatics	5 to 6.7	10 to 2500	High
hydrocarbons, aromatic, C9	3.7 to 4.5	10 to 2500	High

12.4 Mobility in soil

Soil/water partition coefficient : Not available.

Mobility : Volatile.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
zinc powder, stabilized	No	No	No	No	No	No	No
reaction mass of ethylbenzene and xylene	N/A	N/A	N/A	Yes	N/A	N/A	N/A
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
hydrocarbons, aromatic, C9	No	N/A	No	No	No	N/A	No
hydrocarbons, C10-C13, n-/iso-/ cyclo-alkanes, < 2% aromatics	No	N/A	N/A	No	N/A	N/A	N/A
lead	No	No	No	No	No	No	No

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

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SECTION 13: Disposal considerations

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.

Waste catalogue

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

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

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3  	3  	3  	3 
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information ADR

Viscous liquid exception 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 2.2.3.1.5.2.

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 : PP1
Special provisions : 163, 367, 650

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SECTION 14: Transport information**Additional information ADN**

Viscous liquid exception 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 2.2.3.1.5.2.

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

Additional information IMDG

Viscous liquid exception 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.

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

Additional information IATA

The environmentally hazardous substance mark may appear if required by other transportation regulations.

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****UK (GB)/REACH****Annex XIV - List of substances subject to authorisation****Annex XIV**

None of the components are listed above the relevant limit.

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Toxic to reproduction	lead	Candidate	-	27/06/2018

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
1017 Galva Zinc-Alu (brush)	≥90	3

Labelling : Not applicable.

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SECTION 15: Regulatory information

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 497 g/l VOC.

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

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

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c E1

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
lead	EH40/2005 WELs	-	Carc	-

EU regulations

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

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

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SECTION 15: Regulatory information

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 00

Inventory list

Australia	: Not determined.
Canada	: At least one component is not listed in DSL but all such components are listed in NDSL.
China	: At least one component is not listed.
Eurasian Economic Union	: Russian Federation inventory : Not determined.
Japan	: Japan inventory (CSCL) : At least one component is not listed. Japan inventory (ISHL) : At least one component is not listed.
New Zealand	: At least one component is not listed.
Philippines	: Not determined.
Republic of Korea	: At least one component is not listed.
Taiwan	: Not determined.
Thailand	: At least one component is not listed.
Turkey	: At least one component is not listed.
United States	: Not determined.
Viet Nam	: Not determined.
15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative
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Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

Full text of abbreviated H statements

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SECTION 16: Other information

H226	Flammable liquid and vapour.
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.
H360	May damage fertility or the unborn child.
H362	May cause harm to breast-fed children.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Lact.	REPRODUCTIVE TOXICITY - Effects on or via lactation
Repr. 1A	REPRODUCTIVE TOXICITY - Category 1A
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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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.