

Product Galva-Zinc Zinc Rich Coating
 Revision date 05 January 2021
 Revision 1



Safety Data Sheet (SDS)

according to Regulation (EC) No. 1907/2006

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

1.1 Product identifier

Product name	Galva-Zinc Zinc Rich Coating
Other means of identification	No information available.

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

Identified uses	A single component, solvent borne, high zinc content primer for steel protection. For industrial and professional use only.
Uses advised against	Any other purpose.

1.3 Details of the supplier of the safety data sheet

Supplier	Castle Paints Ltd Cloncollig Industrial Estate Tullamore Offaly R35 X993 Ireland Tel: 353 (0)579351583 info@castlepaints.ie
Contact person	

1.4 Emergency telephone number

Emergency telephone	Emergency medical information: 8am - 10pm (Seven Days) contact National Poison Center, Beaumont Hospital. Telephone: +353 (0) 18092166
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Section 2: Hazards identification

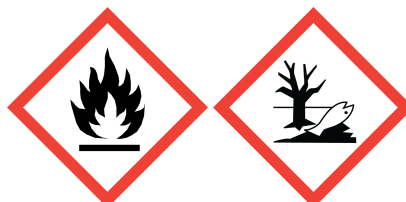
2.1 Classification of the substance or mixture

Classification (EC 1272/2008)	
Physical and chemical hazards	Flam. Liq 3- H226
Human health	Lact - H362
Environment	Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

2.2 Label elements

Contains	Alkanes, C14-17, chloro
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Label in accordance with (EC) no. 1272/2008



Signal word	Warning
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Hazard statements	H226 Flammable liquid and vapour. H362 May cause harm to breast-fed children. H410 Very toxic to aquatic life with long lasting effects.
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Precautionary statements	Prevention P201 Obtain special instructions before use. P210 Keep away from heat/ sparks/open flames/hot surfaces. — No smoking.
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P260 Do not breathe dust/fume/ gas/mist/vapours/spray.

P263 Avoid contact during pregnancy/while nursing.

Response

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry chemical, foam or carbon dioxide for extinction.

EUH statements

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

None known.

Section 3: Composition/identification of ingredients

3.1 Substance

Not applicable.

3.2 Mixtures

Name	Product identifier	Regulation (EC) No 1272/2008	%
Zinc	CAS-No.: 7440-66-6 EC No.: 231-175-3 REACH Reg No.: 01-2119467174-37-XXXX	Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	50-60%
xylene	CAS-No.: 1330-20-7 EC No.: 215-535-7 REACH Reg No.: 01-2119488216-32-XXXX	Acute Tox 4 - H312, Acute Tox 4 - H332, Skin Irrit.2 - H315, Flam. Liq 3- H226	5-10%
zinc oxide	CAS-No.: 1314-13-2 EC No.: 215-222-5 REACH Reg No.: 01-2119463881-32-XXXX	Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	1-5%
Alkanes, C14-17, chloro	CAS-No.: 85535-85-9 EC No.: 287-477-0 REACH Reg No.: 01-2119519269-33-0002	Aquatic Chronic 1 - H410, Lact - H362, Aquatic Acute 1 - H400	1-5%
ethylbenzene	CAS-No.: 100-41-4 EC No.: 202-849-4	Flam. Liq 2- H225, Asp. Tox - H304, Acute Tox 4 - H332, STOT RE 2 - H373	1-5%
Quartz (SiO ₂)	CAS-No.: 14808-60-7 EC No.: 238-878-4		0.01-0.09%
phthalic anhydride	CAS-No.: 85-44-9 EC No.: 201-607-5 REACH Reg No.: 01-2119457017-41-XXXX	Acute Tox 4 - H302, Skin Irrit.2 - H315, Eye Dam. 1 - H318, Resp. Sens 1 - H334, Skin. Sens 1 - H317, STOT SE 3 - H335	0.01-0.09%

The full text for all hazard statements are displayed in section 16.

Composition comments

The data shown are in accordance with the latest EC Directives.

Zinc: M (acute and chronic) = 1.

Zinc oxide: M (acute and chronic) = 1.

Alkanes, C14-17, chloro: M (acute) = 100; M (chronic) = 10.

Section 4: First aid measures

4.1 Description of first aid measures

General information

Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. First aid personnel must be aware of own risk during rescue.

Inhalation

If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. If breathing has stopped or the exposed person experiences difficulty in breathing, administer artificial respiration and seek immediate medical assistance.

Ingestion

If swallowed, seek medical advice immediately and show the container or label. Thoroughly rinse the mouth with water. Do not induce vomiting. If person is conscious, give water to drink on demand. If vomiting occurs, keep head low so that stomach content doesn't enter the lungs. Never give anything by mouth to an unconscious person.

Skin contact

Remove affected person from source of contamination. Remove all contaminated clothes and

	footwear immediately unless stuck to skin. Wash exposed area with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues after rinsing.
Eye contact	Avoid contaminating unaffected eye. Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Remove contact lenses if present and easy to do so. Continue to rinse for at least 15 minutes. Get prompt medical attention.

4.2 Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure. May cause damage to organs through prolonged or repeated exposure. May cause harm to breast-fed children.
Inhalation	No specific symptoms noted. Inhalation of high concentrations of vapours may cause irritation of the respiratory tract or dizziness.
Ingestion	No specific symptoms noted. Ingestion may cause symptoms similar to those listed under inhalation.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Eye contact	No specific symptoms noted. Direct contact with eyes may be irritating.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to the physician	Treat symptomatically.
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Section 5: Fire-fighting measures

5.1 Extinguishing media

Extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. Foam, dry powder, carbon dioxide.
Unsuitable extinguishing media	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	May produce hazardous combustion products such as carbon monoxide, carbon dioxide and unknown hydrocarbons. Combustion products may include and are not limited to: Hydrochloric acid (HCl), chlorinated hydrocarbons.
Unusual fire & explosion hazards	Containers may burst if overheated. Vapours are heavier than air and may spread near ground to sources of ignition. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Solvent vapours may form explosive mixtures with air. Runoff to sewer may create fire or explosion hazard.
Specific hazards	Vapours may be ignited by a spark, a hot surface or an ember. Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special fire fighting procedures	Keep up-wind to avoid fumes. Avoid breathing fire vapours. Ventilate closed spaces before entering them. If possible, fight fire from protected position. Containers close to fire should be removed immediately or cooled with water if safe to do so.
Protective equipment for firefighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Wear protective clothing as described in Section 8 of this safety data sheet. Eliminate all sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Keep unnecessary and unprotected personnel from entering. Read and follow manufacturer's recommendations.
For emergency responders	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2 Environmental precautions

Environmental precautions	Do not allow to enter sewers/ surface or ground water. Prevent further leakage if safe to do
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so. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Spill clean up methods

Wear appropriate personal protective equipment as specified in Section 8. Ventilate and evacuate the area. Eliminate all sources of ignition. Cover drains. Prevent further leakage or spillage if safe to do so.

Use non sparking tools or equipment for clean up. Absorb spillage with inert, damp, non-combustible material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

6.4 Reference to other sections

Reference to other sections

See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handling

Provide good ventilation. Wear suitable personal protective equipment, as detailed in Section 8. Keep away from ignition sources. Use non sparking tools. Avoid inhalation of vapours. Avoid contact with skin and eyes.

Read and follow manufacturer's recommendations. Avoid prolonged or repeated contact. Do not wear contact lenses. Avoid contact during pregnancy or while nursing.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions

Keep upright, locked up and out of reach of children. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from incompatible materials (see section 10). Containers once opened must be carefully resealed to prevent leakage.

Storage class

Protect from direct sunlight. Prohibit ignition sources close to storage area. Flammable liquid storage.

7.3 Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage description

Use only according to directions. Replace and tighten cap after use.

Section 8: Exposure controls/Personal protection

8.1 Control parameters

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
xylene	OEL	50 ppm	221 mg/m ³	100 ppm	442 mg/m ³	Mixed isomers. Sk, IOELV.
zinc oxide	OEL		2 (R) mg/m ³		10 mg/m ³	Fume.
ethylbenzene	OEL	100 ppm	442 mg/m ³	200 ppm	884 mg/m ³	Sk, IOELV.
Quartz (SiO ₂)	OEL		0.1 mg/m ³			Respirable dust. BOELV.
phthalic anhydride	OEL	1 ppm			12 mg/m ³	Sens.

Ingredient comments

Ireland, Occupational Exposure Limits 2020.

8.2 Exposure Controls

Protective equipment



Engineering measures	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Where necessary use lighting and electrical equipment designed for use in atmospheres where flammable vapours are present, and which can direct static electricity by grounding equipment.
Respiratory equipment	Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN 143 should be used, and suitable respirator cartridges as a backup to engineering controls. Suggested filter type: Multi-purpose (combination) ABEK (EN 14387) respirator cartridges. Where aerosols are in use, use self contained breathing apparatus with a type AX filter or appropriate combined filter (e.g. AX-P3), in compliance with EN 371. Use respirators and components tested and approved under appropriate government standards such as CEN (EU). Use respiratory protection as specified by an industrial hygienist or other qualified professional. Change filters frequently.
Hand protection	Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Where hand contact with the product may occur use gloves approved to relevant standards (e.g. Europe: EN374.) Gloves must be inspected prior to use. Suggested material: (Suggested suitable materials for longer, direct contact or splash contact) Butyl rubber. Layer thickness: 0.7 mm. Breakthrough time: >480 minutes. Consult manufacturer for specific advice on material. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Change gloves regularly.
Eye protection	Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).
Other protection	Wear appropriate clothing to prevent any possibility of skin contact. Fire/chemical resistant full-length overalls and boots. Protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. The selected clothing must satisfy the European norm standard EN 943.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work. Wash promptly if skin becomes contaminated.
Process conditions	Ensure that eye flushing systems and safety showers are located close by in the work place.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Silver grey.
Odour	Aromatic.
Odour threshold - lower	No information available as testing has not been completed.
Odour threshold - upper	No information available as testing has not been completed.
pH-Value, Conc. Solution	No information available as testing has not been completed.
pH-Value, Diluted solution	9.00 - 9.50
Melting point	No information available as testing has not been completed.
Initial boiling point and boiling range	> 35 °C
Flash point	23.00 - 60.00 °C
Evaporation rate	No information available as testing has not been completed.
Flammability state	Flammable liquid and vapour.
Flammability limit - lower(%)	No information available as testing has not been completed.
Flammability limit - upper(%)	No information available as testing has not been completed.
Vapour pressure	No information available for the mixture as testing has not been completed. Xylene: 0,82 kPa [room temperature].

Vapour density (air=1)	No information available for the mixture as testing has not been completed. Xylene: 3,7 [Air = 1].
Relative density	1.9g/cm ³ @ 20.00 °C
Bulk density	No information available as testing has not been completed.
Solubility	No information available as testing has not been completed.
Decomposition temperature	No information available as testing has not been completed.
Partition coefficient; n-Octanol/Water	No information available for the mixture as testing has not been completed. Xylene: Log Kow (Log Pow) 3,12 to 3,2.
Auto ignition temperature (°C)	No information available as testing has not been completed.
Viscosity	Dynamic Viscosity: 1,350 cP @ 40°C. Kinematic Viscosity: > 20.5 mm ² /s @ 40°C.
Explosive properties	Not classified as explosive.
Oxidising properties	The product does not meet the criteria to be classified as oxidising.

9.2 Other information

Molecular weight	The product is a mixture, molecular weight data is not required.
Volatile organic compound	EU limit value (Cat A/i) (2010) is 500 g/l. Product contains max 490 g/l.
Other information	None noted.

Section 10: Stability and reactivity

10.1 Reactivity

Reactivity	Stable under recommended transport and storage conditions and under recommended use. See section 10.3 for further information.
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10.2 Chemical stability

Stability	Stable product under recommended storage and handling conditions.
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10.3 Possibility of hazardous reactions

Hazardous reactions	Flammable liquid and vapour. Vapours may form explosive mixture with air.
Hazardous polymerisation	No information available as testing has not been completed.
Polymerisation description	No information available as testing has not been completed.

10.4 Conditions to Avoid

Conditions to avoid	Heat, sparks, flames and other sources of ignition.
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10.5 Incompatible materials

Materials to avoid	Avoid strong oxidising agents, bases, strong acids. Do not mix with other chemicals unless listed on directions.
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10.6 Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
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Section 11: Toxicological information

11.1 Information on toxicological effects

Toxicological information	Not classified based on available information.
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Acute toxicity (Oral LD50)	No information available as testing has not been completed.
Acute toxicity (Dermal LD50)	No information available as testing has not been completed.
Acute toxicity (Inhalation LD50)	No information available as testing has not been completed.
Serious eye damage/irritation	The product is not classified as an eye irritant.
Skin corrosion/irritation	The product is not classified as a skin corrosion/irritation hazard.
Respiratory sensitisation	The product is not classified as a respiratory hazard.
Skin sensitisation	The product is not classified as a skin sensitisation hazard.
Germ cell mutagenicity	The product is not classified as a mutagen.
Carcinogenicity	The product is not classified as a carcinogen hazard.
Specific target organ toxicity - Single exposure:	
STOT - Single exposure	The product is not classified as a single exposure specific target organ toxin.
Specific target organ toxicity - Repeated exposure:	
STOT - Repeated exposure	The product is not classified as a repeat exposure specific target organ toxin.
Inhalation	No specific symptoms noted. Inhalation of high concentrations of vapours may cause irritation of the respiratory tract or dizziness.
Ingestion	No specific symptoms noted. Ingestion may cause symptoms similar to those listed under inhalation.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Eye contact	No specific symptoms noted. Direct contact with eyes may be irritating.
Waste management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
Routes of entry	Eye or skin contact, ingestion or inhalation.
Target organs	No target organs specified.
Aspiration hazards:	The product is not classified as an aspiration hazard.
Reproductive toxicity:	May cause harm to breast-fed children.

Name	LD50 oral	LD50 dermal	LD50 inhalation
Alkanes, C14-17, chloro	>4000.00mg/kg Rat	4000.00mg/kg Rat	>48170.00mg/m ³ Rat 1 Hours
ethylbenzene	3500.00mg/kg Rat	>5000.00mg/kg Rabbit	
xylene	4300.00mg/kg Rat		5000.00ppmV Rat 4 Hours
Quartz (SiO ₂)	>5000.00mg/kg Rat		
Zinc	>20000.00mg/kg Rat		
zinc oxide	>5000.00mg/kg Rat	>2000.00mg/kg Rat	>5.70mg/l (dust/mist) Rat 4 Hours

Section 12: Ecological information

12.1 Toxicity

Acute toxicity - Fish	No information available as testing has not been completed.
Acute toxicity - Aquatic invertebrates	No information available as testing has not been completed.
Acute toxicity - Aquatic plants	No information available as testing has not been completed.
Acute toxicity - Microorganisms	No information available as testing has not been completed.
Chronic toxicity - Fish	No information available as testing has not been completed.
Chronic toxicity - Aquatic invertebrates	No information available as testing has not been completed.
Chronic toxicity - Aquatic plants	No information available as testing has not been completed.
Chronic toxicity - Microorganisms	No information available as testing has not been completed.
Ecotoxicity	Very toxic to aquatic life with long lasting effects.
Eco toxicological information	No ecological toxicity data available for the overall finished product.

12.2 Persistence and degradability

Degradability	No information available as testing has not been completed.
Biological oxygen demand	No information available as testing has not been completed.
Chemical oxygen demand	No information available as testing has not been completed.

12.3 Bioaccumulative potential

Bioaccumulative potential	No information available as testing has not been completed.
Bioaccumulation factor	No information available as testing has not been completed.
Partition coefficient; n-Octanol/Water	No information available for the mixture as testing has not been completed. Xylene: Log Kow (Log Pow) 3,12 to 3,2.

12.4 Mobility in soil

Mobility	No information available as testing has not been completed.
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12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment The product does not contain any PBT or vPvB substances.

12.6 Other adverse effects

Other adverse effects	None known.
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Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
Alkanes, C14-17, chloro		EC50 0.01mg/l Daphnia magna	
ethylbenzene	LC50 96 Hours 4.20mg/l Onchorhynchus mykiss (Rainbow Trout)	EC50 48 Hours <4.40mg/l Daphnia magna	EC50 72 Hours 4.60mg/l EC50 96 Hours 3.60mg/l
xylene	LC50 96 Hours 13.40mg/l Pimephales promelas (Fat-head Minnow)		
Quartz (SiO ₂)	>500.00mg/l Onchorhynchus mykiss (Rainbow Trout)	48 Hours >300.00mg/l Daphnia magna	
Zinc	LC50 96 Hours 0.17ppm Freshwater Fish	EC50 48 Hours 1.83ppm Daphnia magna	
zinc oxide		LC50 48 Hours 0.33mg/l Daphnia magna	

Section 13: Disposal considerations

Waste management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
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13.1 Waste treatment methods

Disposal methods	Dispose of waste and residues in accordance with local authority requirements, and in accordance with the European Directives on waste and hazardous waste. For waste disposal, use a licensed industrial waste disposal agent.
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Section 14: Transport information**14.1 UN number**

UN no. (ADR)	UN1263
UN no. (IMDG)	UN1263
UN no. (IATA)	UN1263

14.2 UN proper shipping name

ADR proper shipping name	PAINT
IMDG proper shipping name	PAINT
IATA proper shipping name	PAINT

14.3 Transport hazard class(es)

ADR class	3
IMDG class	3
IATA class	3

Transport labels

**14.4 Packing group**

ADR/RID/ADN packing group	III
IMDG packing group	III
IATA packing group	III

14.5 Environmental hazards

ADR	Yes
IMDG	Yes
IATA	Yes

14.6 Special precautions for user

EMS	F-E, S-E
Emergency action code	A3 A72 A192
Hazard no. (ADR)	<none>
Tunnel restriction code	(E)

14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code

Not applicable.

Section 15: Regulatory information**15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture**

EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 830/2015 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
Approved code of practice	2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)
Chemical safety assessment	No chemical safety assessment has been carried out.

Section 16: Other information

General information	This Safety Data Sheet is in accordance with REACH Annex II, (EC) No 830/2015. 2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)
Revision comments	This is a first issue.
Revision date	05 January 2021
Revision	1
Safety data sheet status	Approved.

Hazard statements in full

H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H332	Harmful if inhaled.
EUH066	Repeated exposure may cause skin dryness or cracking.

H362	May cause harm to breast-fed children.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure .
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use. Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.