

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Date of issue: 1/10/2014 Revision date: 8/21/2017 Version: 2.1

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

Product identifier

Product form : Mixture

Product name : Corrosion Inhibitor WP 1222

Product code : WP 1222

Type of product : Blend based on solvents and on corrosion inhibitor

Product group · Blend

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Use of the substance/mixture : Corrosion Inhibitor

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Wessex Chemical Factors

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Emergency telephone number

Emergency number : 0044 7973629367

SECTION 2: Hazards identification

Classification of the substance or mixture

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

Acute toxicity (oral), Category 4 H302

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Harmful if swallowed.

Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning Hazardous ingredients sodium nitrite

Hazard statements (CLP) : H302 - Harmful if swallowed

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell

P330 - Rinse mouth

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous

waste

Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium nitrite	(CAS No) 7632-00-0 (EC no) 231-555-9 (EC index no) 007-010-00-4	3 - 10	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 Eye Irrit. 2, H319 Aquatic Acute 1, H400
disodium molybdate	(CAS No) 7631-99-4 (EC no) 231-551-7	1 - 3	Not classified
sodium benzoate	(CAS No) 532-32-1 (EC no) 208-534-8	0.1 - 1	Eye Irrit. 2, H319
acyl amido carboxylic acid, alkanol amine salt		< 1	Not classified
monopropylene glycol (MPG)	(CAS No) 57-55-6 (EC no) 200-338-0	< 0.1	Not classified
propan-2-ol, isopropyl alcohol, isopropanol	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0	< 0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
formaldehyde %	(CAS No) 50-00-0 (EC no) 200-001-8 (EC index no) 605-001-00-5	< 0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350
methanol	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X	< 0.1	Flam. Liq. 2, H225 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT SE 1, H370
benzotriazole	(CAS No) 95-14-7 (EC no) 202-394-1	< 0.1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 3, H412

Specific concentration limits:

Name	Product identifier	Specific concentration limits
formaldehyde %	(CAS No) 50-00-0 (EC no) 200-001-8 (EC index no) 605-001-00-5	(C >= 0.2) Skin Sens. 1, H317 (C >= 5) STOT SE 3, H335 (5 = <c 2,="" 25)="" <="" eye="" h319<br="" irrit.="">(5 =<c 2,="" 25)="" <="" h315<br="" irrit.="" skin="">(C >= 25) Skin Corr. 1B, H314</c></c>
methanol	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X	(3 = <c 10)="" 2,="" <="" h371<br="" se="" stot="">(C >= 10) STOT SE 1, H370</c>

Full text of H-phrases: see section 16

First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after ingestion

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Assure fresh air breathing. Allow the victim to rest.

: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.

: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist. Rinse eyes with water as a precaution.

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand. Use extinguishing media appropriate

for surrounding fire.

: Do not use a heavy water stream. Unsuitable extinguishing media

Special hazards arising from the substance or mixture

Hazardous decomposition products in case of

: Carbon monoxide. Carbon dioxide. Nitrogen oxides. Metal oxides.

5.3. **Advice for firefighters**

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any Firefighting instructions

chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection. Do

not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

: Ventilate spillage area. Evacuate unnecessary personnel. Emergency procedures

For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment. Equip cleanup crew with

proper protection. For further information refer to section 8: "Exposure controls/personal

protection".

Emergency procedures : Ventilate area

Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

For containment : Stop leak without risks if possible.

Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or Methods for cleaning up

diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information Dispose of materials or solid residues at an authorized site.

Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling Ensure good ventilation of the work station. Wear personal protective equipment. Provide good

ventilation in process area to prevent formation of vapour.

Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with Hygiene measures

mild soap and water before eating, drinking or smoking and when leaving work. Always wash

hands after handling the product.

Conditions for safe storage, including any incompatibilities

Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Storage conditions

Keep container closed when not in use.

Incompatible products Strong bases. Strong acids. Incompatible materials : Sources of ignition. Direct sunlight.

Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
United Kingdom	WEL TWA (mg/m³)	999 mg/m³ (8 hours)
United Kingdom	WEL TWA (ppm)	400 ppm (8 hours)
United Kingdom	WEL STEL (mg/m³)	1250 mg/m³ (15 minutes)
United Kingdom	WEL STEL (ppm)	500 ppm (15 minutes)
United Kingdom	Remark (WEL)	Can be absorbed through the skin

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disodium molybdate (7631-99-4)		
United Kingdom	WEL TWA (mg/m³)	5 mg/m³ Molybdenum compounds (as Mo)
United Kingdom	WEL STEL (mg/m³)	10 mg/m³ Molybdenum compounds (as Mo)
formaldehyde % (50-00-0)		
United Kingdom	WEL TWA (mg/m³)	2.5 mg/m³
United Kingdom	WEL TWA (ppm)	2 ppm
United Kingdom	WEL STEL (mg/m³)	2.5 mg/m³
United Kingdom	WEL STEL (ppm)	2 ppm
methanol (67-56-1)		
United Kingdom	WEL TWA (mg/m³)	266 mg/m³ (8 hours)
United Kingdom	WEL TWA (ppm)	200 ppm (8 hours)
United Kingdom	WEL STEL (mg/m³)	333 mg/m³ (15 minutes)
United Kingdom	WEL STEL (ppm)	250 ppm (15 minutes)
United Kingdom	Remark (WEL)	Can be absorbed through the skin.
monopropylene glycol (MPG) (57-55-6)		
United Kingdom	WEL TWA (mg/m³)	474 mg/m³ (8 hour TWA, total vapour and particulates)
United Kingdom	WEL TWA (ppm)	150 ppm (8 hour TWA, total vapour and particulates)

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Gloves. Protective goggles. Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or safety glasses. Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask





Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, colorless liquid.

Colour
Co

Boiling point : $\sim 100 \, ^{\circ}\text{C}$

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: No data available Flash point : No data available Self ignition temperature Decomposition temperature : No data available Flammability (solid, gas) : Non flammable. Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Density : 1.047 g/cm³ Solubility : soluble in water. Log Pow · No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available : No data available Oxidising properties **Explosive limits** : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1.	Information	on toxico	logical effects

Acute toxicity (oral) : Oral: Harmful if swallowed.

Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

ATE (oral) 1790.2274641955 mg/kg bodyweight

sodium nitrite (7632-00-0)

LD50 oral rat 85 mg/kg

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		67-63-0)
	LD50 oral rat	5840 mg/kg

LD50 dermal rabbit 13900 mg/kg
LC50 inhalation rat (mg/l) > 25 mg/l Vapour (6 hours)

sodium benzoate (532-32-1)

LD50 oral rat 3450 mg/kg bodyweight

disodium molybdate (7631-99-4)

LD50 oral rat	2733 - 6556 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 2080 mg/m³

formaldehyde % (50-00-0)	
LD50 oral rat	460 mg/kg
LD50 dermal rabbit	270 mg/kg
LC50 inhalation rat (ppm)	< 463 ppm/4h

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benzotriazole (95-14-7)	
LD50 oral rat	500 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight
methanol (67-56-1)	
LD50 oral rat	1187 - 2769 mg/kg bodyweight (corresponding to 15 - 35 % aqueous solution)
LC50 inhalation rat (Vapours - mg/l/4h)	128.2 mg/l/4h
monopropylene glycol (MPG) (57-55-6)	
LD50 oral rat	22000 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
	pH: 7.3 - 7.5 (1% solution)
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
	pH: 7.3 - 7.5 (1% solution)
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
formaldehyde % (50-00-0)	
NOAEL (chronic,oral, animal/male,2 years)	82 mg/kg bodyweight

Reproductive toxicity : Not classified

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

109 mg/kg bodyweight

Specific target organ toxicity (single exposure) : Not classified

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

Specific target organ toxicity (repeated

NOAEL (chronic, oral, animal/female, 2 years)

exposure)

: Not classified

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

Aspiration hazard : Not classified

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

Potential Adverse human health effects and

symptoms

: Harmful if swallowed.

SECTION 12: Ecological information

•	12 1	Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Aquatic acute : Not classified Aquatic chronic : Not classified

sodium nitrite (7632-00-0)		
LC50 fishes 1	0.54 mg/l Rainbow trout (Onchorhynchus mykiss)	
LC50 other aquatic organisms 1	4.93 mg/l aquatic crustacea	
EC50 Daphnia 1	15.4 mg/l	
EC50 72h Algae [mg/l] (1)	> 100 mg/l	
NOEC chronic fish	6.16 mg/l	
NOEC chronic crustacea	9.86 mg/l Daphnia magna	
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
LC50 fishes 1	9640 mg/l Fathead Minnow (Pimephales promelas)	

EC50 72h Algae [mg/l] (1)	> 100 mg/l
sodium benzoate (532-32-1)	
LC50 fishes 1	484 mg/l Fathead minnow (Pimephales promelas)

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sodium benzoate (532-32-1)

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EC50 Daphnia 1	> 100 mg/l	
disodium molybdate (7631-99-4)		
LC50 fishes 1	1536 mg/l Fat-head Minnow (Pimephales promelas)	
EC50 Daphnia 1	330.1 mg/l	
NOEC chronic crustacea	89.5 mg/l	
formaldehyde % (50-00-0)		
LC50 fishes 1	40 mg/l Rainbow trout (Oncorhynchus mykiss)	
EC50 Daphnia 1	18.2 mg/l	
EC50 72h Algae [mg/l] (1)	3.48 mg/l	
benzotriazole (95-14-7)		
LC50 fishes 1	180 mg/l Zebrafish (Danio rerio)	
EC50 Daphnia 1	137 mg/l	
ErC50 (algae)	75 mg/l	
NOEC chronic crustacea	32 mg/l	
NOEC chronic algae	10 mg/l	
methanol (67-56-1)		
LC50 fishes 1	15400 mg/l Bluegill (Lepomis macrochirus)	
LC50 fish 2	20100 mg/l Rainbow trout (Oncorhynchus mykiss)	
EC50 Daphnia 1	> 10000 mg/l	
EC50 96h Algae [mg/l] (1)	22000 mg/l	
NOEC chronic fish	7900 mg/l	
monopropylene glycol (MPG) (57-55-6)		
LC50 fishes 1	46500 mg/l fathead minnow (Pimpephales promelas)	
EC50 Daphnia 1	> 4000 mg/l 48 hours	
12.2. Persistence and degradability		
Corrosion Inhibitor WP 1222	Not catablished	
Persistence and degradability	Not established.	
sodium nitrite (7632-00-0)	ALC ALP. I	
Persistence and degradability	Not established.	
propan-2-ol, isopropyl alcohol, isopropan		
Persistence and degradability	Readily biodegradable.	
sodium benzoate (532-32-1)		
Persistence and degradability	Not established.	
disodium molybdate (7631-99-4)		
Persistence and degradability	soluble in water.	
formaldehyde % (50-00-0)		
Persistence and degradability	Readily biodegradable.	
methanol (67-56-1)		
Persistence and degradability	Readily biodegradable.	
monopropylene glycol (MPG) (57-55-6)		
Persistence and degradability	Biodegradable.	
Chemical oxygen demand (COD)	1.53 g O²/g substance	
ThOD	1.68 g O²/g substance	
12.3. Bioaccumulative potential		
Corrosion Inhibitor WP 1222		
Bioaccumulative potential	Not established.	
sodium nitrite (7632-00-0)		
Bioaccumulative potential	Not established.	
propan-2-ol, isopropyl alcohol, isopropan	ol (67-63-0)	
Log Pow	0.05	
Bioaccumulative potential	No bioaccumulation.	
sodium benzoate (532-32-1)		
Log Pow	-2.27	
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sodium benzoate (532-32-1)	
Bioaccumulative potential	Not established.
disodium molybdate (7631-99-4)	
Bioaccumulative potential	Not established.
formaldehyde % (50-00-0)	
Log Pow	0.35
Bioaccumulative potential	No bioaccumulation.
methanol (67-56-1)	
Log Pow	-0.74
Log Kow	-0.77
Bioaccumulative potential	Low. Not expected to bioaccumulate due to the low log Kow (log Kow < 4).
monopropylene glycol (MPG) (57-55-6)	
Log Pow	-1.07
Bioaccumulative potential	No bioaccumulation.
2.4. Mobility in soil	
propan-2-ol, isopropyl alcohol, isoprop	panol (67-63-0)
Ecology - soil	Very mobile. Soluble material/quickly disperses in water.
disodium molybdate (7631-99-4)	
Ecology - soil	Soluble material/quickly disperses in water.
methanol (67-56-1)	
Ecology - soil	Product adsorbs onto the soil.
2.5. Results of PBT and vPvB asse	ssment
Component	
sodium nitrite (7632-00-0)	PBT: not relevant – no registration required
sodium benzoate (532-32-1)	PBT: not relevant – no registration required
disodium molybdate (7631-99-4)	PBT: not relevant – no registration required vPvB: not relevant – no registration required
2.6. Other adverse effects	
additional information	: Avoid release to the environment

Waste treatment methods

Product/Packaging disposal recommendations Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to a licensed hazardous-waste disposal contractor or collection site except

for empty clean containers which can be disposed of as non-hazardous waste.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA

14.1. UN number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No.(IATA)	: Not applicable
UN-No.(ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	

Proper Shipping Name (ADR) : Not applicable Proper Shipping Name (IMDG) : Not applicable Proper Shipping Name (IATA) : Not applicable Proper Shipping Name (ADN) : Not applicable Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

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Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : 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 mixturejs, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

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Other information : None.

Full text of H- and EUH-phrases:

Acute Tox. 3 (Dermal) Acute toxicity (Inhal.), Category 3 Acute Tox. 3 (Inhalation) Acute toxicity (Inhal.), Category 3 Acute Tox. 3 (Inhalation:dust.mist) Acute toxicity (Inhalation:dust.mist) Category 3 Acute Tox. 3 (Oral) Acute toxicity (oral), Category 3 Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4 Aquatic Acute 1 Hazardous to the aquatic environment — AcuteHazard, Category 1 Aquatic Chronic 3 Hazardous to the aquatic environment — Chronic Hazard, Category 3 Carc. 1B Carcinogenicity, Category 1B Eye Irrit. 2 Serious eye damage(eye irritation, Category 2 Flam. Liq. 2 Flammable liquids, Category 2 Muta. 2 Germ cell mutagenicity, Category 2 Muta. 2 Germ cell mutagenicity, Category 2 Muta. 2 Germ cell mutagenicity, Category 3 Skin Corr. 1B Skin corrosion/irritation, Category 1B Skin Sens. 1 Sensitisation — Skin, category 1B Skin Sens. 1 Sensitisation — Skin, category 1 STOT SE 1 Specific target organ toxicity — single exposure, Category 3, Narcosis H225 Highly flammable liquid and vapour H272 May intensify fire; oxidizer H301 Toxic if swallowed H311 Toxic if contact with skin H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H330 May cause an allergic skin reaction H331 Toxic if inhaled H336 May cause drowsiness or dizziness H3370 Causes damage to organs H4400 Very toxic to aquatic life H4412 Harmful to aquatic life with long lasting effects		
Acute Tox. 3 (Inhalation:dust,mist) Acute toxicity (inhalation:dust,mist) Category 3 Acute Tox. 3 (Oral) Acute toxicity (oral), Category 3 Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4 Aquatic Acute 1 Hazardous to the aquatic environment — AcuteHazard, Category 1 Aquatic Chronic 3 Hazardous to the aquatic environment — Chronic Hazard, Category 3 Carc. 1B Carcinogenicity, Category 1B Eye Irrit. 2 Serious eye damage/eye irritation, Category 2 Flam. Liq. 2 Flammable liquids, Category 2 Muta. 2 Germ cell mutagenicity, Category 2 Muta. 2 Germ cell mutagenicity, Category 2 Muta. 2 Germ cell mutagenicity, Category 2 Skin Corr. 1B Skin corrosion/irritation, Category 1 Skin Corr. 1B Skin corrosion/irritation, Category 1B Skin Sens. 1 Sensitisation — Skin, category 1 STOT SE 1 Specific target organ toxicity — Single exposure, Category 1 STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Narcosis Highly flammable liquid and vapour H272 May intensify fire; oxidizer H301 Toxic if swallowed H302 Harmful if swallowed H302 Harmful if swallowed H311 Toxic in contact with skin Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H319 Causes serious eye irritation H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral) Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4 Aquatic Acute 1 Aquatic Acute 1 Hazardous to the aquatic environment — AcuteHazard, Category 1 Aquatic Chronic 3 Hazardous to the aquatic environment — Chronic Hazard, Category 3 Carc. 1B Carcinogenicity, Category 1B Eye Irrit. 2 Serious eye damage/eye irritation, Category 2 Flam. Liq. 2 Flammable liquids, Category 2 Qx. Sol. 3 Oxidising Solids, Category 3 Skin Corr. 1B Skin corrosion/irritation, Category 1B Skin Sens. 1 Sensitisation — Skin, category 1 STOT SE 1 Specific target organ toxicity — Single exposure, Category 3, Narcosis Highly flammable liquid and vapour H272 May intensify fire; oxidizer H301 Toxic if swallowed H311 Toxic in contact with skin Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 4 (Oral) Aquatic Acute 1 Aquatic Acute 1 Hazardous to the aquatic environment — AcuteHazard, Category 1 Aquatic Chronic 3 Hazardous to the aquatic environment — Chronic Hazard, Category 3 Carc. 1B Carcinogenicity, Category 1B Eye Irrit. 2 Serious eye damage/eye irritation, Category 2 Flam. Liq. 2 Flammable liquids, Category 2 Muta. 2 Germ cell mutagenicity, Category 3 Skin Corr. 1B Skin corrosion/irritation, Category 3 Skin Corr. 1B Skin corrosion/irritation, Category 1B Skin Sens. 1 Sensitisation — Skin, category 1 STOT SE 1 Specific target organ toxicity — Single exposure, Category 3, Narcosis H225 Highly flammable liquid and vapour H372 May intensify fire; oxidizer H301 Toxic if swallowed H311 Toxic in contact with skin Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H336 May cause drowsiness or dizziness H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Aquatic Acute 1 Hazardous to the aquatic environment — AcuteHazard, Category 1 Aquatic Chronic 3 Hazardous to the aquatic environment — Chronic Hazard, Category 3 Carc. 1B Carcinogenicity, Category 1B Eye Irrit. 2 Serious eye damage/eye irritation, Category 2 Flam. Lig. 2 Flammable liquids, Category 2 Muta. 2 Germ cell mutagenicity, Category 2 Ox. Sol. 3 Oxidising Solids, Category 3 Skin Corr. 1B Skin corrosion/irritation, Category 1B SKin Sens. 1 Sensitisation — Skin, category 1 STOT SE 1 Specific target organ toxicity — single exposure, Category 3, Narcosis H225 Highly flammable liquid and vapour H272 May intensify fire; oxidizer H301 Toxic if swallowed H302 Harmful if swallowed H311 Toxic in contact with skin H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H330 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause damage to organs H400 Very toxic to aquatic life	Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Chronic 3 Hazardous to the aquatic environment — Chronic Hazard, Category 3 Carc. 1B Carcinogenicity, Category 1B Eye Irrit. 2 Serious eye damage/eye irritation, Category 2 Flam. Liq. 2 Flammable liquids, Category 2 Muta. 2 Germ cell mutagenicity, Category 2 Ox. Sol. 3 Oxidising Solids, Category 3 Skin Corr. 1B Skin corrosion/irritation, Category 1B Skin Sens. 1 Sensitisation — Skin, category 1 STOT SE 1 Specific target organ toxicity — single exposure, Category 1 STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Narcosis H225 Highly flammable liquid and vapour H272 May intensify fire; oxidizer H301 Toxic if swallowed H302 Harmful if swallowed H311 Toxic in contact with skin Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H319 Causes serious eye irritation H330 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause damage to organs H400 Very toxic to aquatic life	Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 1B Carcinogenicity, Category 1B Eye Irrit. 2 Serious eye damage/eye irritation, Category 2 Flam. Liq. 2 Flammable liquids, Category 2 Muta. 2 Germ cell mutagenicity, Category 2 Muta. 2 Germ cell mutagenicity, Category 2 Ox. Sol. 3 Oxidising Solids, Category 3 Skin Corr. 1B Skin corrosion/irritation, Category 1B Skin Sens. 1 Sensitisation — Skin, category 1 STOT SE 1 Specific target organ toxicity — single exposure, Category 1 STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Narcosis H225 Highly flammable liquid and vapour H272 May intensify fire; oxidizer H301 Toxic if swallowed H302 Harmful if swallowed H311 Toxic in contact with skin H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H319 Causes serious eye irritation H330 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Eye Irrit. 2Serious eye damage/eye irritation, Category 2Flam. Liq. 2Flammable liquids, Category 2Muta. 2Germ cell mutagenicity, Category 2Ox. Sol. 3Oxidising Solids, Category 3Skin Corr. 1BSkin corrosion/irritation, Category 1BSkin Sens. 1Sensitisation — Skin, category 1STOT SE 1Specific target organ toxicity — single exposure, Category 1STOT SE 3Specific target organ toxicity — Single exposure, Category 3, NarcosisH225Highly flammable liquid and vapourH272May intensify fire; oxidizerH301Toxic if swallowedH302Harmful if swallowedH311Toxic in contact with skinH314Causes severe skin burns and eye damageH317May cause an allergic skin reactionH319Causes serious eye irritationH331Toxic if inhaledH336May cause drowsiness or dizzinessH341Suspected of causing genetic defectsH350May cause cancerH370Causes damage to organsH400Very toxic to aquatic life	Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Flam. Liq. 2 Flammable liquids, Category 2 Muta. 2 Germ cell mutagenicity, Category 2 Ox. Sol. 3 Oxidising Solids, Category 3 Skin Corr. 1B Skin corrosion/Irritation, Category 1B Skin Sens. 1 Sensitisation — Skin, category 1 STOT SE 1 Specific target organ toxicity — single exposure, Category 1 STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Narcosis H225 Highly flammable liquid and vapour H272 May intensify fire; oxidizer H301 Toxic if swallowed H302 Harmful if swallowed H311 Toxic in contact with skin H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H319 Causes serious eye irritation H331 Toxic if inhaled H336 May cause drowsiness or dizziness H340 Causes damage to organs H370 Causes damage to organs H400 Very toxic to aquatic life	Carc. 1B	Carcinogenicity, Category 1B
Muta. 2Germ cell mutagenicity, Category 2Ox. Sol. 3Oxidising Solids, Category 3Skin Corr. 1BSkin corrosion/irritation, Category 1BSkin Sens. 1Sensitisation — Skin, category 1STOT SE 1Specific target organ toxicity — single exposure, Category 3, NarcosisH225Highly flammable liquid and vapourH227May intensify fire; oxidizerH301Toxic if swallowedH302Harmful if swallowedH311Toxic in contact with skinH314Causes severe skin burns and eye damageH317May cause an allergic skin reactionH319Causes serious eye irritationH331Toxic if inhaledH336May cause drowsiness or dizzinessH341Suspected of causing genetic defectsH350May cause cancerH370Causes damage to organsH400Very toxic to aquatic life	Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Sol. 3 Oxidising Solids, Category 3 Skin Corr. 1B Skin corrosion/irritation, Category 1B Skin Sens. 1 Sensitisation — Skin, category 1 STOT SE 1 Specific target organ toxicity — single exposure, Category 1 STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Narcosis H225 Highly flammable liquid and vapour H272 May intensify fire; oxidizer H301 Toxic if swallowed H302 Harmful if swallowed H311 Toxic in contact with skin Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H319 Causes serious eye irritation H331 Toxic if inhaled May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause damage to organs H400 Very toxic to aquatic life	Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1B Skin crrosion/irritation, Category 1B Skin Sens. 1 Sensitisation — Skin, category 1 STOT SE 1 Specific target organ toxicity — single exposure, Category 1 STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Narcosis H225 Highly flammable liquid and vapour H272 May intensify fire; oxidizer H301 Toxic if swallowed H302 Harmful if swallowed H311 Toxic in contact with skin Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H319 Causes serious eye irritation H331 Toxic if inhaled H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause damage to organs H400 Very toxic to aquatic life	Muta. 2	Germ cell mutagenicity, Category 2
Skin Sens. 1 Sensitisation — Skin, category 1 STOT SE 1 Specific target organ toxicity — single exposure, Category 1 STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Narcosis H225 Highly flammable liquid and vapour H272 May intensify fire; oxidizer H301 Toxic if swallowed H302 Harmful if swallowed H311 Toxic in contact with skin H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H319 Causes serious eye irritation H331 Toxic if inhaled H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	Ox. Sol. 3	Oxidising Solids, Category 3
STOT SE 1 Specific target organ toxicity — single exposure, Category 1 STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Narcosis H225 Highly flammable liquid and vapour H272 May intensify fire; oxidizer H301 Toxic if swallowed H302 Harmful if swallowed H311 Toxic in contact with skin H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H319 Causes serious eye irritation H331 Toxic if inhaled H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause damage to organs H400 Very toxic to aquatic life	Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Narcosis H225 Highly flammable liquid and vapour H272 May intensify fire; oxidizer H301 Toxic if swallowed H302 Harmful if swallowed H311 Toxic in contact with skin H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H319 Causes serious eye irritation H331 Toxic if inhaled H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	Skin Sens. 1	Sensitisation — Skin, category 1
H225 Highly flammable liquid and vapour H272 May intensify fire; oxidizer H301 Toxic if swallowed H302 Harmful if swallowed H311 Toxic in contact with skin H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H319 Causes serious eye irritation H331 Toxic if inhaled H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	STOT SE 1	Specific target organ toxicity — single exposure, Category 1
H272 May intensify fire; oxidizer H301 Toxic if swallowed H302 Harmful if swallowed H311 Toxic in contact with skin H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H319 Causes serious eye irritation H331 Toxic if inhaled H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H301 Toxic if swallowed H302 Harmful if swallowed H311 Toxic in contact with skin H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H319 Causes serious eye irritation H331 Toxic if inhaled H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	H225	Highly flammable liquid and vapour
H302 Harmful if swallowed H311 Toxic in contact with skin H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H319 Causes serious eye irritation H331 Toxic if inhaled H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	H272	May intensify fire; oxidizer
H311 Toxic in contact with skin H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H319 Causes serious eye irritation H331 Toxic if inhaled H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	H301	Toxic if swallowed
H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H319 Causes serious eye irritation H331 Toxic if inhaled H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	H302	Harmful if swallowed
H317 May cause an allergic skin reaction H319 Causes serious eye irritation H331 Toxic if inhaled H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	H311	Toxic in contact with skin
H319 Causes serious eye irritation H331 Toxic if inhaled H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	H314	Causes severe skin burns and eye damage
H331 Toxic if inhaled H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	H317	May cause an allergic skin reaction
H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	H319	Causes serious eye irritation
H341 Suspected of causing genetic defects H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	H331	Toxic if inhaled
H350 May cause cancer H370 Causes damage to organs H400 Very toxic to aquatic life	H336	May cause drowsiness or dizziness
H370 Causes damage to organs H400 Very toxic to aquatic life	H341	Suspected of causing genetic defects
H400 Very toxic to aquatic life	H350	May cause cancer
	H370	Causes damage to organs
H412 Harmful to aquatic life with long lasting effects	H400	Very toxic to aquatic life
	H412	Harmful to aquatic life with long lasting effects

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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