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

1.1 Product identifier

Commercial product name: **INDASOL PREMIUM D3 PVA**

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

Use of substance / preparation:

Industrial.

Binder for: adhesives , coating .

All other areas of application to be agreed with the Application Engineering/ Technical Marketing Department of the manufacturer.

1.3 Details of the supplier of the safety data sheet

Manufacturer/distributor:

Industrial Adhesive Solutions Ltd

Street/POB-No.:

Unit 10, Crystal Drive,
Sandwell Business Park

State/postal code/city:

Smethwick, B66 1QG

Telephone:

+44 (0) 121 556 9900

Information about the Safety Data Sheet:

Telephone
eMail

+44 (0) 121 556 9900
technical@indasol.co.uk

1.4 Emergency telephone number

Emergency Information:

+44 (0) 121 556 9900

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567):

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567):

No labeling according to GHS required.

Code	Additional Labelling
EUH210	Safety data sheet available on request.
EUH208	Contains chloromethylisothiazolinone and methylisothiazolinone (3:1), formaldehyde. May produce an allergic reaction.

Biocidal Products Regulation (528/2012)

Contains a 3:1 mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one as preservative for products during storage according to regulation (EC) No 528/2012 art. 58(3).

2.3 Other hazards

No data available.

Endocrine disrupting properties - human health: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties - environment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

3.2.1 Chemical characteristics

Polyvinyl acetate (dispersion in water)

3.2.2 Hazardous ingredients

Propylene carbonate		≥1 – <5 %
CAS-No.: 108-32-7	EC-No.: 203-572-1	Index-No.: 607-194-00-1
INHA	[1]	REACH No.: 01-2119537232-48
Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567) *	Eye Irrit. 2 / H319	

Formaldehyde		≥0,01 – <0,1 %
CAS-No.: 50-00-0	EC-No.: 200-001-8	Index-No.: 605-001-00-5
VERU	[1]	
Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567) *	Muta. 2 / H341; Eye Dam. 1 / H318; Carc. 1B / H350; Skin Sens. 1A / H317; Skin Corr. 1B / H314; Acute Tox. 2, by inhalation / gases / H330; Acute Tox. 4, oral / H302 EUH071 <u>specific concentration limit:</u> ≥ 25 %: EUH071 ≥ 25 %: Skin Corr. 1B / H314 5 - < 25 %: Eye Irrit. 2 / H319 5 - < 25 %: Skin Irrit. 2 / H315 5 - < 25 %: STOT SE 3 / H335 <u>ATE, Oral:</u> 500 mg/kg <u>ATE, inhalation (gas):</u> 100 ppm	

Chloro-methyl-isothiazolin-one and methyl-isothiazolin-one (3:1 mix)		<0,0015 %
CAS-No.: 55965-84-9	EC-No.: 611-341-5	Index-No.: 613-167-00-5
INHA	[1]	REACH No.: 01-2120764691-48
Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567) *	Acute Tox. 3, oral / H301; Acute Tox. 2, dermal / H310; Acute Tox. 2, by inhalation / dust/mist / H330; Skin Corr. 1C / H314; Skin Sens. 1A / H317; Aquatic Acute 1 / H400; Aquatic Chronic 1 / H410; Eye Dam. 1 / H318 EUH071 <u>M-Factor, Acute</u> = 100 <u>M-Factor, Chronic</u> = 100 <u>specific concentration limit:</u> ≥ 0,0015 %: Skin Sens. 1A / H317 0,06 - < 0,6 %: Eye Irrit. 2 / H319 0,06 - < 0,6 %: Skin Irrit. 2 / H315 ≥ 0,6 %: Skin Corr. 1C / H314 ≥ 0,6 %: Eye Dam. 1 / H318	

Type: INHA: ingredient, VERU: impurity

REACH registered substances may be included as impurities. These do not necessarily require identified uses and exposure scenarios in the safety data sheet.

[1] = Hazardous or environmentally harmful substance; [2] = substance with a Community workplace exposure limit; [3] = PBT

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substance; [4] = vPvB substance; [5] = Endocrine disrupting properties

*For explanation of abbreviations see section 16.

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above $\geq 0.1\%$.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Under ordinary workplace conditions: No special measures required.

After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

After contact with the skin:

Wash with plenty of water or water and soap. Seek medical advice in case of continuous irritation.

After inhalation:

No special measures required.

After swallowing:

In cases of sickness seek medical advice (show label if possible).

4.2 Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

4.3 Indication of any immediate medical attention and special treatment needed

Due to its physical properties, may cause mechanical irritation. Product may agglutinate in the gastro-intestinal tract. Medical assistance should be sought. Depending on the symptoms, invasive measures may be necessary. Further toxicology information in section 11 must be observed.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

not applicable .

Extinguishing media which must not be used for safety reasons:

not applicable .

5.2 Special hazards arising from the substance or mixture

At low oxygen level: acetic acid.

5.3 Advice for firefighters

Special protective equipment for fire fighting:

Use respiratory protection independent of recirculated air.

General information:

Product does not burn. Use extinguishing measures appropriate to the source of the fire. Dried up material is combustible.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (see section 8). If material is released indicate risk of slipping.

6.2 Environmental precautions

Prevent material from entering sewers or surface waters. Contain any fluid that runs out using suitable material (e.g. earth).

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6.3 Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean up with plenty of water. Dispose of cleansing water in accordance with local/state/federal regulations.

6.4 Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7: Handling and storage

7.1 Precautions for safe handling

General information:

No special protective measures required.

Precautions for safe handling:

Spilled substance increases risk of slipping.

Precautions against fire and explosion:

No special precautions against fire and explosion required.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels:

Protect against frost.

Advice for storage of incompatible materials:

not applicable .

Further information for storage:

exempt .

Minimum temperature allowed during storage and transportation: 5 °C

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Maximum airborne concentrations at the workplace:

Substance	Type	mg/m ³	ppm	Dust fract.	Fibre/m ³
Formaldehyde	OEL	2,5	2,0		

Derived No-Effect Level (DNEL):

Propylene carbonate

Area of use:	Value:
Worker; dermal; systemic (long term)	20 mg/kg/day
Worker; by inhalation; local (long term)	20 mg/m ³
Worker; by inhalation; systemic (long term)	70,5 mg/m ³
Consumer; dermal; systemic (long term)	10 mg/kg/day
Consumer; by inhalation; local (long term)	10 mg/m ³
Consumer; by inhalation; systemic (long term)	17,4 mg/m ³
Consumer; oral; systemic (long term)	10 mg/kg/day

Predicted No Effect Concentration (PNEC):

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Propylene carbonate	
Area of use:	Value:
freshwater	0,9 mg/l
marine water	0,09 mg/l
Intermittent release	9 mg/l
Soil	0,81 mg/kg dry mass
sewage treatment plant	7400 mg/l

8.2 Exposure controls

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:

Do not eat or drink when handling.

Further information for system design and engineering measures

No special measures required.

Personal protection equipment:

Respiratory protection

No personal respiratory protective equipment normally required.

Eye protection

protective goggles, according to acknowledged standards such as EN 166.

Hand protection

Use of protective gloves is recommended when handling the material, according to recognized standards such as EN374.

For the choice of suitable gloves, workplace conditions have to be considered, like e.g. handling of other substances and materials.

Recommended glove types: Rubber gloves

Skin protection

None required.

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering sewers or surface waters.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Property:	Value:	Method:
Physical state	liquid	
Colour	white	
Odour	faint	
Odour Threshold	no data available	
Melting point.....	0 °C at 1013 hPa	(Lit.)
Boiling point/boiling range	100 °C at 1013 hPa	(Lit.)
Lower explosion limit.....	not applicable	
Upper explosion limit.....	no data available	
Flash point.....	not applicable	
Ignition temperature	Not applicable.	
Thermal decomposition	no data available	
pH	2,5 - 3,5 (48 %)	(DIN/ISO 976)
Viscosity, kinematic.....	no data available	
Viscosity, dynamic.....	9000 - 13000 mPa.s at 23 °C	(DIN EN ISO 2555)
Water solubility.....	no data available	
Partition coefficient: n-octanol/water	no data available	

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Vapour pressure.....: 23 hPa at 20 °C
Density: 1,1 g/cm³ (21 °C)
Relative vapour density.....: no data available
Particle Size Distribution: No data available.

9.2 Other information

No data available.

Property:	Value:	Method:
Evaporation rate.....:	no data available	
Molecular weight	not applicable	

SECTION 10: Stability and reactivity

10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.
Relevant information can possibly be found in other parts of this section.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

If stored and handled properly: none known. Acetic acid at increased temperature.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Acute toxicity

Product details:

Exposure routes	Result/Effect
Oral	LD50 > 5000 mg/kg (LD50 cut-off according ATC method) Species: Rat, Method: OECD 423, Source: Conclusion by analogy

11.1.2 Skin corrosion/irritation

Assessment:

Based on the available data a clinically relevant skin irritation hazard is not expected.

Product details:

No skin irritation (Species: human keratinocytes, Method: OECD 439, Source: Conclusion by analogy)
No skin irritation (Species: Rabbit, Method: OECD 404, Source: Conclusion by analogy)

11.1.3 Serious eye damage/eye irritation

Assessment:

Based on the available data a clinically relevant eye irritation hazard is not expected.

Product details:

No eye irritation (Method: OECD 492, Source: Conclusion by analogy)

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No eye irritation (Species: Rabbit, Method: OECD 405, Source: Conclusion by analogy)

11.1.4 Respiratory or skin sensitization

Assessment:

Based on the available data a sensitization reaction is not expected from this product.

Product details:

Exposure routes	Result
Inhalation	No data available.

11.1.5 Germ cell mutagenicity

Assessment:

Based on known data a significant mutagenic potential may be excluded.

negative (Test system: mutation assay (in vitro) / bacterial cells, Method: OECD 471, Source: Conclusion by analogy)

11.1.6 Carcinogenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.7 Reproductive toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.8 Specific target organ toxicity - single exposure

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.9 Specific target organ toxicity - repeated exposure

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.10 Aspiration hazard

Assessment:

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.2.2 Further toxicological information

None known.

SECTION 12: Ecological information

12.1 Toxicity

Assessment:

No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

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Product details:

Result/Effect	Species/Test system	Source
LC50: > 100 mg/l	Oncorhynchus mykiss (rainbow trout) (96 h)	Conclusion by analogy OECD 203
EC50: > 1000 mg/l	Daphnia magna (Water flea) (48 h)	Conclusion by analogy OECD 202
EC10: > 1000 mg/l	activated sludge (0,5 h)	Conclusion by analogy

12.2 Persistence and degradability

Assessment:

Polymer component: Not readily biodegradable. Elimination by adsorption to activated sludge. Separation by flocculation is possible.

12.3 Bioaccumulative potential

Assessment:

No adverse effects expected.

12.4 Mobility in soil

Assessment:

No adverse effects expected.

12.5 Results of PBT and vPvB assessment

PBT assessment

No data available.

vPvB Assessment

No data available.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

none known

Additional information

According to present knowledge no adverse influence to environment expected.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Material

Recommendation:

Dispose of according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of by incineration in an approved facility. Observe local/state/federal regulations.

13.1.2 Uncleaned packaging

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

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Recommended cleaning agent:
water

13.1.3 Waste Disposal Legislation Ref.No.(EC)

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

SECTION 14: Transport information

14.1 UN number or ID number

ADR: Not applicable
RID: Not applicable
IMDG.....: Not applicable
ICAO/IATA: Not applicable

14.2 Proper shipping name

ADR: Not applicable
RID: Not applicable
IMDG.....: Not applicable
ICAO/IATA: Not applicable

14.3 Transport hazard class

ADR: Not applicable
RID: Not applicable
IMDG.....: Not applicable
ICAO/IATA: Not applicable

14.4 Packing group

ADR: Not applicable
RID: Not applicable
IMDG.....: Not applicable
ICAO/IATA: Not applicable

14.5 Environmental hazards

Environmentally hazardous: no

14.6 Special precautions for user

Relevant information in other sections has to be considered.

14.7 Maritime transport in bulk according to IMO instruments

Bulk transport in tankers is not intended.

SECTION 15: Regulatory information

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

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

Control of Major Accident Hazards Regulations 2015 (COMAH)

Not applicable

Relevant regulations:

SI 2002/1689: CHIP Regulations 2002

SI 2002/2677: COSHH Regulations 2002

SI 1999/3242: Management of Health & Safety at Work Regulations 1999

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Health & Safety at Work Act 1974

SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.

Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

Other specifications, restrictions and prohibitions:

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

Japan	: ENCS (Handbook of Existing and New Chemical Substances): This product is listed in, or complies with, the substance inventory.
New Zealand	: NZIoC (New Zealand Inventory of Chemicals): This product is listed in, or complies with, the substance inventory. (For a correct interpretation of the New Zealand status, additional information like GHS classification or Group Standard is required.)
Australia	: AIIC (Australian Inventory of Industrial Chemicals): This product is listed in, or complies with, the substance inventory.
China.....	: IECSC (Inventory of Existing Chemical Substances in China): This product is listed in, or complies with, the substance inventory.
Canada	: DSL (Domestic Substance List): This product is listed in, or complies with, the substance inventory.
Philippines.....	: PICCS (Philippine Inventory of Chemicals and Chemical Substances): This product is not listed or in compliance with the substance inventory.
United States of America (USA).....	: TSCA (Toxic Substance Control Act Chemical Substance Inventory): All components of this product are listed as active or are in compliance with the substance inventory.
Taiwan	: TCSI (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.
European Economic Area (EEA).....	: REACH (Regulation (EC) No 1907/2006): General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.
South Korea (Republic of Korea)	: AREC (Act on Registration and Evaluation of Chemicals; "K-REACH"): Please approach your regular contact for more detailed information.

15.2 Chemical safety assessment

Due to the results of the chemical safety assessment, exposure scenarios and identified uses are not of relevance for this safety data sheet.

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SECTION 16: Other information

16.1 Material

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

Key or legend to abbreviations and acronyms used in the safety data sheet

ABEK - Multi-Range Filter A, B, E, K; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; APF - Assigned Protection Factor; CAS No. - Chemical Abstracts Service Registry Number; DFG - German Research Foundation; DIN - German institute for standardization; DOC - Dissolved Organic Carbon; d/w - days per week; EC / CE / EG - European Community; EC50 / CE50 - Median effective concentration; ECHA - European Chemicals Agency; ED - endocrine disruptor; EG-RL - test method according to Regulation 440/2008; EN - European Standard; ERC - Environmental Release Category; g/cm³ - gram per cubic centimeter; h - hour(s); H-Code - hazard statement code(s); hPa - Hectopascal; IATA Regs - International Air Transport Association (IATA) Dangerous Goods Regulations; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 / CI50 - half maximal inhibitory concentration; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IMDG Code - International Maritime Dangerous Goods Code; ISO - International Organization for Standardization; LC50 / CL50 - medium lethal concentration; LD50 / DL50 - medium lethal dose; LOAEC - Lowest Observed Adverse Effect Concentration; LOAEL - Lowest Observed Adverse Effect Level; MARPOL - International Convention for the Prevention of Marine Pollution from Ships; mg/g - milligrams per gram; mg/kg - milligrams per kilogram; mg/l - milligrams per liter; mg/m³ - milligrams per cubic meter; min - minutes; mJ - millijoule; mm - millimeter; mm²/s - square millimeter per second; mPa.s - Millipascal second(s); MSDS / SDB / SDS - safety data sheet; No Observed Adverse Effect Concentration; NOAEL - No Observed adverse effect level; NOEC - No Observed Effect Concentration; NOEL - No Observed Effect Level; OECD - Organization for Economic Cooperation and Development; PBT - persistent, bioaccumulative, toxic; PC - product category; P-Code - precautionary statement code(s); ppm - parts per million; PROC - process category; RCP - reciprocal calculation-based procedure; RID - convention concerning international carriage by rail; SU - sector of use; SVHC - substance of very high concern; Vol% - volume percent; UN No. - United Nations Dangerous Goods Number; vPvB - very Persistent, very Bioaccumulative

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Full text of H-Statements:

Eye Irrit. 2; H319	Serious eye damage/eye irritation Category 2; Causes serious eye irritation.
Muta. 2; H341.....	Germ cell mutagenicity Category 2; Suspected of causing genetic defects.
Eye Dam. 1; H318.....	Serious eye damage/eye irritation Category 1; Causes serious eye damage.
Carc. 1B; H350.....	Carcinogenicity Category 1B; May cause cancer.
Skin Sens. 1A; H317 ..	Skin sensitisation Category 1A; May cause an allergic skin reaction.
Skin Corr. 1B; H314 ..	Skin corrosion/irritation Category 1B; Causes severe skin burns and eye damage.
Acute Tox. 2; H330	Acute toxicity Category 2; Fatal if inhaled.
Acute Tox. 4; H302	Acute toxicity Category 4; Harmful if swallowed.
EUH071	Corrosive to the respiratory tract.
Acute Tox. 3; H301	Acute toxicity Category 3; Toxic if swallowed.
Acute Tox. 2; H310	Acute toxicity Category 2; Fatal in contact with skin.
Acute Tox. 2; H330	Acute toxicity Category 2; Fatal if inhaled.
Skin Corr. 1C; H314.....	Skin corrosion/irritation Category 1C; Causes severe skin burns and eye damage.
Skin Sens. 1A; H317 ..	Skin sensitisation Category 1A; May cause an allergic skin reaction.
Aquatic Acute 1; H400:	Short-term (acute) aquatic hazard Category 1; Very toxic to aquatic life.
Aquatic Chronic 1; H410 :	Long-term (chronic) aquatic hazard Category 1; Very toxic to aquatic life with long lasting effects.
Eye Dam. 1; H318.....	Serious eye damage/eye irritation Category 1; Causes serious eye damage.
EUH071	Corrosive to the respiratory tract.

- End of Safety Data Sheet -