

**PL Phosphorus LR/HR 2**

Version number: GHS 1.0

Date of compilation: 2026-05-29

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

**1.1 Product identifier**

|                                 |                              |
|---------------------------------|------------------------------|
| Identification of the substance | <b>PL Phosphorus LR/HR 2</b> |
| CAS number                      | 7727-21-1                    |
| Article number                  | PL153u154-10g                |

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

|                          |   |
|--------------------------|---|
| Relevant identified uses | Reagent for water analysis                          |
| Uses advised against     | Other. Do not use for private purposes (household). |

**1.3 Details of the supplier of the safety data sheet**

Water-i.d. GmbH  
Daimlerstrasse 20  
76344 Eggenstein  
Germany

Telephone: +49 (0) 721-78 20 29-0  
e-mail: lab@water-id.com  
Website: <https://www.water-id.com>

e-mail (competent person) lab@water-id.com

**1.4 Emergency telephone number**

| Poison centre                                    |                 |
|--|-----------------|
| Name   | Telephone       |
| National Chemical Emergency Centre (NCEC) Europe | +44 1235 239670 |

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classification (acc. to GB CLP)

| Section | Hazard class  | Category | Hazard class and category | Hazard statement |
|---------|---|----------|---------------------------|------------------|
| 2.14    | oxidising solid   | 3        | Ox. Sol. 3                | H272             |
| 3.10    | acute toxicity (oral)   | 4        | Acute Tox. 4              | H302             |
| 3.2     | skin corrosion/irritation   | 2        | Skin Irrit. 2             | H315             |
| 3.3     | serious eye damage/eye irritation   | 2        | Eye Irrit. 2              | H319             |
| 3.4R    | respiratory sensitisation   | 1        | Resp. Sens. 1             | H334             |
| 3.4S    | skin sensitisation  | 1        | Skin Sens. 1              | H317             |
| 3.8R    | specific target organ toxicity - single exposure (respiratory tract irritation) | 3        | STOT SE 3                 | H335             |

For full text of abbreviations: see SECTION 16.

**2.2 Label elements**

Labelling (acc. to GB CLP)

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- Signal word danger

- Pictograms

GHS03, GHS07, GHS08



- Hazard statements

- H272 May intensify fire; oxidiser.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.

- Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**2.3 Other hazards**

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

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

**3.1 Substances**

|                   |                       |
|-------------------|-----------------------|
| Name of substance | PL Phosphorus LR/HR 2 |
| Identifiers       |                       |
| CAS No            | 7727-21-1             |
| EC No             | 231-781-8             |
| Index No (GB CLP) | 016-061-00-1          |

| Specific Conc. Limits | M-Factors | ATE         | Exposure route |
|-----------------------|-----------|-------------|----------------|
| -                     | -         | 1,200 mg/kg | oral           |

|                   |             |
|-------------------|-------------|
| Molecular formula | K2O8S2      |
| Molar mass        | 270.3 g/mol |

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek

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medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

### Following skin contact

Rinse skin with water/shower.

### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, Alcohol resistant foam, ABC-powder

Unsuitable extinguishing media

Water jet

### 5.2 Special hazards arising from the substance or mixture

Deposited combustible dust has considerable explosion potential. Oxidising property.

Hazardous combustion products

Sulphur oxides (SO<sub>x</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains, Take up mechanically

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materi-

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als: see section 10. Disposal considerations: see section 13.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

- Handling of incompatible substances or mixtures

- Keep away from

Organic absorbing material, Pulp/paper

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

**7.2 Conditions for safe storage, including any incompatibilities**

Managing of associated risks

- Explosive atmospheres

Removal of dust deposits.

- Flammability hazards

Keep valves and fittings free from oil and grease.

- Incompatible substances or mixtures

Keep/store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles.

- Ventilation requirements

Use local and general ventilation.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

**7.3 Specific end use(s)**

See section 16 for a general overview.

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

**8.1 Control parameters**

| Occupational exposure limit values (Workplace Exposure Limits) |               |        |            |           |             |            |              |                 |                   |          |           |
|--|---------------|--------|------------|-----------|-------------|------------|--------------|-----------------|-------------------|----------|-----------|
| Country  | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation | Source    |
| GB   | dust          |        | WEL        |           | 10          |            |              |                 |                   | i        | EH40/2005 |
| GB   | dust          |        | WEL        |           | 4           |            |              |                 |                   | r        | EH40/2005 |

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

i inhalable fraction

r respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours

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Notation

time-weighted average (unless otherwise specified)

Human health values

| Relevant DNELs and other threshold levels |                         |                                    |                   |                            |
|---|-------------------------|------------------------------------|-------------------|----------------------------|
| Endpoint                                  | Threshold level         | Protection goal, route of exposure | Used in           | Exposure time              |
| DNEL                                      | 0.824 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - local effects    |
| DNEL                                      | 12.7 mg/kg bw/day       | human, dermal                      | worker (industry) | chronic - systemic effects |

Environmental values

| Relevant PNECs and other threshold levels |                 |                       |                              |                              |
|---|-----------------|-----------------------|------------------------------|------------------------------|
| Endpoint                                  | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| PNEC                                      | 0.518 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| PNEC                                      | 0.052 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| PNEC                                      | 3.6 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| PNEC                                      | 2.03 mg/kg      | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| PNEC                                      | 0.203 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| PNEC                                      | 0.1 mg/kg       | terrestrial organisms | soil                         | short-term (single instance) |

**8.2 Exposure controls**

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Use protective eyewear to guard against splash of liquids.

Skin protection

- Hand protection

>480 minutes (permeation: level 6).

- Other protection measures

Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Protective clothing for use against solid particulates.

Respiratory protection

Particulate filter device (EN 143).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

|                |           |
|----------------|-----------|
| Physical state | solid     |
| Colour         | white     |
| Odour          | odourless |

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|  |                      |
|--|----------------------|
| Melting point/freezing point                             | not determined       |
| Boiling point or initial boiling point and boiling range | not determined       |
| Flammability   | non-combustible      |
| Lower and upper explosion limit                          | not relevant (solid) |
| Flash point  | not applicable       |
| Auto-ignition temperature                                | >600 °C (ECHA Chem)  |
| Decomposition temperature                                | not relevant         |
| pH (value)   | not applicable       |
| Kinematic viscosity                                      | not relevant         |

Solubility(ies)

|                  |                    |
|------------------|--------------------|
| Water solubility | 52.77 g/l at 20 °C |
|------------------|--------------------|

Partition coefficient

|   |                          |
|---|--------------------------|
| Partition coefficient n-octanol/water (log value) | not relevant (inorganic) |
|---|--------------------------|

|                 |                  |
|-----------------|------------------|
| Vapour pressure | <0 mmHg at 25 °C |
|-----------------|------------------|

Density and/or relative density

|                         |                                 |
|-------------------------|---------------------------------|
| Density                 | 1.39 g/cm <sup>3</sup> at 20 °C |
| Relative vapour density | not relevant (solid)            |

Particle characteristics

|                          |                   |
|--------------------------|-------------------|
| Particle characteristics | no data available |
| Granulometry             | < ≤150 µm = 50 %  |
| Particle size            | 30 – 150 µm       |

**9.2 Other information**

|  |                                    |
|--|------------------------------------|
| Information with regard to physical hazard classes | there is no additional information |
|--|------------------------------------|

Other safety characteristics

|               |       |
|---------------|-------|
| Solid content | 100 % |
|---------------|-------|

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

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Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". It's a reactive substance. The mixture contains reactive substance(s). Oxidising property.

**10.2 Chemical stability**

See below "Conditions to avoid".

**10.3 Possibility of hazardous reactions**

No known hazardous reactions.

**10.4 Conditions to avoid**

There are no specific conditions known which have to be avoided.

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

**10.5 Incompatible materials**

Combustible materials

**10.6 Hazardous decomposition products**

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Classification acc. to GHS**

Acute toxicity

Harmful if swallowed.

GHS of the United Nations, annex 4: May be harmful in contact with skin.

- Acute toxicity estimate (ATE)

Oral 1,200 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Shall not be classified as hazardous to the aquatic environment.

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**12.2 Persistence and degradability**

Data are not available.

**12.3 Bioaccumulative potential**

Data are not available.

**12.4 Mobility in soil**

Data are not available.

**12.5 Results of PBT and vPvB assessment**

According to the results of its assessment, this substance is not a PBT or a vPvB.

**12.6 Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

**12.7 Other adverse effects**

Data are not available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Waste treatment-relevant information

Recycling/reclamation of other inorganic materials.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

**Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

**SECTION 14: Transport information**

**14.1 UN number**

|           |         |
|-----------|---------|
| ADR/RID   | UN 1492 |
| IMDG-Code | UN 1492 |
| ICAO-TI   | UN 1492 |

**14.2 UN proper shipping name**

|           |                       |
|-----------|-----------------------|
| ADR/RID   | POTASSIUM PERSULPHATE |
| IMDG-Code | POTASSIUM PERSULPHATE |
| ICAO-TI   | Potassium persulphate |

**14.3 Transport hazard class(es)**

|           |     |
|-----------|-----|
| ADR/RID   | 5.1 |
| IMDG-Code | 5.1 |
| ICAO-TI   | 5.1 |

**14.4 Packing group**

|           |     |
|-----------|-----|
| ADR/RID   | III |
| IMDG-Code | III |
| ICAO-TI   | III |

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- 14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations
- 14.6 Special precautions for user**  
Provisions for dangerous goods (ADR) should be complied within the premises.
- 14.7 Maritime transport in bulk according to IMO instruments**  
The cargo is not intended to be carried in bulk.

**Information for each of the UN Model Regulations**

**Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - Additional information**

Classification code O2  
Danger label(s) 5.1



Excepted quantities (EQ) E1  
Limited quantities (LQ) 5 kg  
Transport category (TC) 3  
Tunnel restriction code (TRC) E  
Hazard identification No 50  
Emergency Action Code 1Z

**Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - Additional information**

Classification code O2  
Danger label(s) 5.1



Excepted quantities (EQ) E1  
Limited quantities (LQ) 5 kg  
Transport category (TC) 3  
Hazard identification No 50

**International Maritime Dangerous Goods Code (IMDG) - Additional information**

Marine pollutant -  
Danger label(s) 5.1



Special provisions (SP) -  
Excepted quantities (EQ) E1  
Limited quantities (LQ) 5 kg  
EmS F-A, S-Q  
Stowage category A

**International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information**

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Danger label(s) 5.1



Exempted quantities (EQ) E1  
Limited quantities (LQ) 10 kg

**SECTION 15: Regulatory information**

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

**Relevant provisions of the European Union (EU)**

**Deco-Paint Directive**

|             |     |
|-------------|-----|
| VOC content | 0 % |
|-------------|-----|

**Industrial Emissions Directive (IED)**

|             |     |
|-------------|-----|
| VOC content | 0 % |
|-------------|-----|

**Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)**

not listed

**Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

not listed

**Water Framework Directive (WFD)**

| List of pollutants (WFD) |        |           |         |
|--------------------------|--------|-----------|---------|
| Name of substance        | CAS No | Listed in | Remarks |
| PL Phosphorus LR/HR 2    |        | a)        |         |

Legend

a) Indicative list of the main pollutants

**Regulation on persistent organic pollutants (POP)**

not listed

**National regulations (GB)**

**List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list**

not listed

**Restrictions according to GB REACH, Annex 17**

not listed

**National inventories**

| Country | Inventory  | Status                       |
|---------|------------|------------------------------|
| AU      | AIIC       | substance is listed          |
| CN      | IECSC      | substance is listed          |
| EU      | ECSI       | substance is listed          |
| EU      | REACH Reg. | substance is listed          |
| US      | TSCA       | substance is listed (ACTIVE) |

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Legend

|            |   |
|------------|---|
| AIIC       | Australian Inventory of Industrial Chemicals                            |
| ECSI       | EC Substance Inventory (EINECS, ELINCS, NLP)                            |
| IECSC      | Inventory of Existing Chemical Substances Produced or Imported in China |
| REACH Reg. | REACH registered substances   |
| TSCA       | Toxic Substances Control Act  |

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance.

**SECTION 16: Other information**

**Abbreviations and acronyms**

| Abbr.     | Descriptions of used abbreviations  |
|-----------|---|
| ADR       | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)                         |
| ATE       | Acute Toxicity Estimate   |
| CAS       | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| Ceiling-C | Ceiling value   |
| DGR       | Dangerous Goods Regulations (see IATA/DGR)  |
| DNEL      | Derived No-Effect Level   |
| EC No     | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)     |
| ED        | Endocrine disruptor   |
| EH40/2005 | EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> ) |
| EINECS    | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS    | European List of Notified Chemical Substances   |
| EmS       | Emergency Schedule  |
| GB CLP    | The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)                            |
| GB REACH  | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)  |
| GHS       | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IATA      | International Air Transport Association   |
| IATA/DGR  | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO      | International Civil Aviation Organization   |
| ICAO-TI   | Technical instructions for the safe transport of dangerous goods by air   |
| IMDG      | International Maritime Dangerous Goods Code   |
| IMDG-Code | International Maritime Dangerous Goods Code   |
| index No  | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008  |
| NLP       | No-Longer Polymer   |
| PBT       | Persistent, Bioaccumulative and Toxic   |
| PNEC      | Predicted No-Effect Concentration   |
| ppm       | Parts per million   |
| RID       | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations   |

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| Abbr. | Descriptions of used abbreviations                                |
|-------|---|
|       | concerning the International carriage of Dangerous goods by Rail) |
| STEL  | Short-term exposure limit   |
| TWA   | Time-weighted average   |
| VOC   | Volatile Organic Compounds  |
| vPvB  | Very Persistent and very Bioaccumulative                          |
| WEL   | Workplace exposure limit  |

**Key literature references and sources for data**

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended). The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended). GB mandatory classification and labelling.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

**List of relevant phrases (code and full text as stated in section 2 and 3)**

| Code | Text   |
|------|--|
| H272 | May intensify fire; oxidiser.  |
| H302 | Harmful if swallowed.  |
| H315 | Causes skin irritation.  |
| H317 | May cause an allergic skin reaction.                                       |
| H319 | Causes serious eye irritation.   |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation.  |

**Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.