

PL Phosphorous 1 LR

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

1.1 - Product identifier

Trade name/designation PL Phosphorous 1 LR

Chemical name

Product-type Mixture

Product code PL153-kit

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

1.3 - Details of the supplier of the safety data sheet

Water-I.D. GmbH

Daimlerstr. 20

76344 Eggenstein Germany

Telephone : +49 (0) 721 - 78 20 29 - 0 Fax +49 (0) 721 - 78 20 29 - 11

Website www.water-id.com

EHS / Compliance: lab@water-id.com

1.4 - Emergency telephone number

- Poison Control Center Munich

Tel: +49 (0) 89 / 19 24 0

Germany

24 hour service

Languages: German, English

please also call from: United Kingdom

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

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

| | |
|---------------|----------------------------------|
| Met. Corr. 1 | Corrosive to metals - Category 1 |
| Skin Corr. 1A | Skin corrosion, Category 1A |
| Eye Dam. 1 | Serious eye damage, Category 1 |

2.2 - Label elements

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

Contains: sodium hydroxide (CAS No.: 1310-73-2)

Signal word : Danger

Hazard pictograms



Hazard statements

| | |
|------|----------------------------|
| H290 | May be corrosive to metals |
|------|----------------------------|

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| | |
|--------------------------|--|
| H314 | Causes severe skin burns and eye damage |
| Precautionary statements | |
| P234 | Keep only in original packaging. |
| P260 | Do not breathe mist, vapours, spray. |
| P264 | Wash hands thoroughly after handling. |
| P280 | Wear protective gloves, protective clothing, eye protection. |
| P301+P330+P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTER, a doctor. |
| P363 | Wash contaminated clothing before reuse. |
| P390 | Absorb spillage to prevent material damage. |
| P405 | Store locked up. |
| P406 | Store in a corrosion resistant plastic container with a resistant inner liner. |
| P501 | Dispose of contents, container to an appropriate recycling or disposal facility. |
| EUH-phrases | : None |

2.3 - Other hazards

PBT-substance. - No information available.

vPvB-substance. - No information available.

Other hazards which do not result in classification - No information available.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

| Chemical name | No | % | Class | Spec. concentrations |
|------------------|---|---------|--|---|
| sodium hydroxide | CAS No. : 1310-73-2 Index No. : 011-002-00-6 EC No. : 215-185-5 REACH No. : 01-2119457892-27-xxxx | 10 - 30 | Eye Dam. 1 - H318 Met. Corr. 1 - H290 Skin Corr. 1A - H314 | Eye Irrit. 2 - H319 : 0,5>=%<2 Skin Corr. 1A - H314 : 5>=%<=100 Skin Corr. 1B - H314 : 2>=%<5 Skin Irrit. 2 - H315 : 0,5>=%<2 |

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation - No special measures are necessary.

- Provide fresh air.

Following skin contact

- After contact with skin, wash immediately with plenty of water and soap.

- Remove contaminated, saturated clothing immediately.

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| | |
|--------------------------|---|
| <u>After eye contact</u> | - In case of skin reactions, consult a physician. - In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. |
| <u>After ingestion</u> | - If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. |

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

Symptoms and effects - Following inhalation - No information available.

Symptoms and effects - Following skin contact - No information available.

Symptoms and effects - After eye contact - Serious eye damage/eye irritation

Symptoms and effects - After ingestion - No information available.

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

SECTION 5: Firefighting measures

5.1 - Extinguishing media

Suitable extinguishing media

- ABC-powder
- Carbon dioxide (CO₂)
- Foam
- Extinguishing powder

Unsuitable extinguishing media - Full water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture - No information available.

5.3 - Advice for firefighters

- Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel - Use personal protection equipment.

For emergency responders - No information available.

6.2 - Environmental precautions

- Do not allow to enter into surface water or drains.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment - Soak up inert absorbent and dispose as waste requiring special attention.

Methods and material for cleaning up - Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

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- Clear contaminated areas thoroughly.

Inappropriate techniques

- No information available.

6.4 - Reference to other sections

- Disposal: see section 13
- Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation

- Avoid: Eye contact
- It is recommended to design all work processes always so that the following is excluded: Eye contact
- It is recommended to design all work processes always so that the following is excluded: Skin contact

Advices on general occupational hygiene

- No information available.

7.2 - Conditions for safe storage, including any incompatibilities

- Store in a place accessible by authorized persons only.
- Keep away from: Food and feedingstuffs
- Only use containers specifically approved for the substance/product.

7.3 - Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

8.2 - Exposure controls

Appropriate engineering controls

- No information available.

Individual protection measures, such as personal protective equipment

- Suitable eye protection: Eye glasses with side protection

- Suitable eye protection: Dust protection eye glasses

- Suitable protective clothing: lab coat

- Suitable eye protection: Face protection umbrella



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- Suitable protective clothing: Protective apron



SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

| <u>Physical state</u> | <u>Liquid</u> | <u>Appearance</u> | <u>Liquid</u> |
|-------------------------------|---------------|------------------------|---------------|
| <u>Colour</u> | colourless | <u>Odour</u> | odourless |
| Odour threshold | | No data available | |
| pH | | 14 @ 20°C | |
| Melting point | | No data available | |
| Freezing point | | No data available | |
| Boiling point | | 100 °C | |
| Flash point | | No data available | |
| Evaporation rate | | No data available | |
| flammability | | No data available | |
| Lower explosion limit | | No data available | |
| Upper explosion limit | | No data available | |
| Vapour pressure | | No data available | |
| Vapour density | | No data available | |
| Relative density | | No data available | |
| Density | | 1,16 g/cm ³ | |
| Solubility (Water) | | No data available | |
| Solubility (Ethanol) | | No data available | |
| Solubility (Acetone) | | No data available | |
| Solubility (Organic solvents) | | No data available | |
| Log KOC | | No data available | |
| Auto-ignition temperature | | No data available | |
| Decomposition temperature | | No data available | |
| Kinematic viscosity | | No data available | |
| Dynamic viscosity | | No data available | |

9.2 - Other information

| | |
|-------------------------|-------------------|
| VOC content | No data available |
| Minimum ignition energy | No data available |
| Conductivity | No data available |

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

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10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- No information available.

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 - Information on toxicological effects

Acute toxicity - Not classified

Toxicity : Mixture

| | |
|---------------------------------------|-------------------|
| LD50 oral (rat) | No data available |
| LD50 dermal (rat) | No data available |
| LD50 dermal (rabbit) | No data available |
| LC50 inhalation (rat) | No data available |
| LC50 inhalation dusts and mists (rat) | No data available |
| LC50 inhalation vapours (rat) | No data available |

- Based on available data, the classification criteria are not met.

Skin corrosion/irritation - Skin corrosion, Category 1A - Causes severe skin burns and eye damage
- Corrosive.

Serious eye damage/eye irritation - Serious eye damage, Category 1
- Risk of serious damage to eyes.
- Causes serious eye irritation.
- Corrosive.

Respiratory or skin sensitisation - Not classified

Germ cell mutagenicity - Not classified

Carcinogenicity - Not classified

Reproductive toxicity - Not classified

STOT-single exposure - Not classified

STOT-repeated exposure - Not classified

Aspiration hazard - Not classified

SECTION 12: Ecological information

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12.1 - Toxicity

Toxicity : Mixture

| | |
|-----------------------------------|-------------------|
| EC50 48 hr crustacea | No data available |
| LC50 96 hr fish | No data available |
| ErC50 algae | No data available |
| ErC50 other aquatic plants | No data available |
| NOEC chronic fish | No data available |
| NOEC chronic crustacea | No data available |
| NOEC chronic algae | No data available |
| NOEC chronic other aquatic plants | No data available |

- The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

12.2 - Persistence and degradability

| | |
|---------------------------------|-------------------|
| Biochemical oxygen demand (BOD) | No data available |
| Chemical oxygen demand (COD) | No data available |
| % of biodegradation in 28 days | No data available |

- No information available.

12.3 - Bioaccumulative potential

| | |
|-------------------------------|-------------------|
| Bioconcentration factor (BCF) | No data available |
| Log KOC | No data available |

- No indication of bioaccumulation potential.

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

- No information available.

- No information available.

12.6 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

| | |
|---|--|
| <u>Waste treatment methods</u> | - Dispose of waste according to applicable legislation. |
| <u>Sewage disposal</u> | - No information available. |
| <u>Special precautions for waste treatment</u> | - Waste for disposal is to be classified and labelled. - Do not mix with other wastes. - Consult the appropriate local waste disposal expert about waste disposal. |
| <u>Community or national or regional provisions</u> | - No information available. |

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SECTION 14: Transport information

14.1 - UN number

UN number (ADR) : UN1824
UN number (RID) : UN1824
UN number (IMDG) : UN1824

14.2 - UN proper shipping name

UN proper shipping name (ADR) : SODIUM HYDROXIDE SOLUTION
UN proper shipping name (RID) : SODIUM HYDROXIDE SOLUTION
UN proper shipping name (IMDG) : SODIUM HYDROXIDE SOLUTION

14.3 - Transport hazard class(es)

ADR Transport hazard class(es) : 8
ADR Classification code: : C5
Pictograms



Transport hazard class(es) (RID) : 8
Pictograms



Transport hazard class(es) (IMDG) : 8
Pictograms



14.4 - Packing group

Packing group : II
Packing group (RID) : II
Packing group (IMDG) : II

14.5 - Environmental hazards

Environmental hazards : No
Marine pollutant : No

14.6 - Special precautions for user

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ADR

| | | |
|--|---|------------|
| <u>ADR Classification code:</u> | : | C5 |
| <u>ADR Special provisions</u> | : | |
| <u>ADR Limited quantity (LQ)</u> | : | 1 L |
| <u>ADR Excepted quantities</u> | : | E2 |
| <u>ADR Packing instructions</u> | : | P001 IBC02 |
| <u>ADR Special packing provisions</u> | : | |
| <u>ADR Mixed packing provisions</u> | : | MP15 |
| <u>Instructions for portable tanks and bulk containers</u> | : | T7 |
| <u>Special provisions for portable tanks and bulk containers</u> | : | TP2 |
| <u>ADR tank code</u> | : | L4BN |
| <u>ADR tanks special provisions</u> | : | |
| <u>Vehicle for tank carriage</u> | : | AT |
| <u>ADR Transport category</u> | : | 2 |
| <u>ADR Tunnel restriction code</u> | : | E |
| <u>ADR Special provisions loading, unloading and handling</u> | : | |
| <u>Special provisions - Packages</u> | : | |
| <u>Special provisions - Bulk</u> | : | |
| <u>Special provisions - Operation</u> | : | |
| <u>ADR Hazard identification number (Kemler No.)</u> | : | 80 |

RID

| | | |
|------------------------------|---|-----|
| <u>Special provisions</u> | : | |
| <u>Limited quantity (LQ)</u> | : | 1 L |
| <u>Excepted quantities</u> | : | E2 |

IMDG

| | | |
|--|---|---------------|
| <u>Special provisions</u> | : | |
| <u>Limited quantity (LQ)</u> | : | 1 L |
| <u>Excepted quantities</u> | : | E2 |
| <u>Packing instructions</u> | : | |
| <u>Special packing provisions</u> | : | |
| <u>IBC instruction(s)</u> | : | |
| <u>IBC provisions</u> | : | |
| <u>Instructions for portable tanks and bulk containers</u> | : | |
| <u>Special provisions for portable tanks and bulk containers</u> | : | |
| <u>EmS codes</u> | : | F-A, S-B |
| <u>Stowage and handling</u> | : | A |
| <u>Segregation</u> | : | 18 - Alkalien |
| <u>Properties and observations</u> | : | |

14.7 - Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

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Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content No data available

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

SECTION 16: Other information

SDS versions

| Version | Issue date | Description of the amendments |
|---------|------------|-------------------------------|
| 1 | 11.01.2019 | MSDS creation |

Texts of the regulatory sentences

| | |
|---------------|---|
| Eye Dam. 1 | Serious eye damage, Category 1 |
| H290 | May be corrosive to metals |
| H314 | Causes severe skin burns and eye damage |
| Met. Corr. 1 | Corrosive to metals - Category 1 |
| Skin Corr. 1A | Skin corrosion, Category 1A |

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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