



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 23-Jun-2022

Revision Number 1

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

### 1.1. Product identifier

**Product Code(s)** VHG-PPBN-500  
**Product Name** Lead Standard: Pb @ 1000 µg/mL in 5% HNO<sub>3</sub>  
**Unique Formula Identifier (UFI)** AX77-8056-N00E-XXR2  
**Pure substance/mixture** Mixture

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

**Recommended use** Laboratory use  
**Uses advised against** No information available

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

LGC Limited  
Queens Road  
Teddington  
Middlesex TW11 0LY  
UNITED KINGDOM  
:+44 (0) 20 8943 7000  
Fax :+44 (0) 20 8943 2767  
eMail : gb@lgcstandards.com

Web : www.lgcstandards.com

For further information, please contact

**E-mail address** sds-request@lgcgroup.com

### 1.4. Emergency telephone number

**Emergency Telephone** For Hazardous Materials or Dangerous Goods Incident  
Spill, Leak, Fire Exposure, or Accident  
Call CHEMTREC:  
USA & Canada 1-800-424-9300  
Rest of the world +1 703-741-5970

**Emergency Telephone - §45 - (EC)1272/2008**

**Europe** 112



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|                |                                                                                         |
|----------------|-----------------------------------------------------------------------------------------|
| Austria        | No information available                                                                |
| Bulgaria       |                                                                                         |
| Croatia        |                                                                                         |
| Cyprus         |                                                                                         |
| Czech Republic |                                                                                         |
| Denmark        |                                                                                         |
| France         |                                                                                         |
| Hungary        |                                                                                         |
| Ireland        |                                                                                         |
| Italy          |                                                                                         |
| Lithuania      |                                                                                         |
| Luxembourg     | (+352) 8002 5500 Free telephone number with a 24/7 access in French, Dutch and English. |
| Netherlands    |                                                                                         |
| Norway         |                                                                                         |
| Portugal       |                                                                                         |
| Romania        |                                                                                         |
| Slovakia       |                                                                                         |
| Slovenia       |                                                                                         |
| Spain          |                                                                                         |
| Sweden         |                                                                                         |
| Switzerland    |                                                                                         |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

|                                   |                      |
|-----------------------------------|----------------------|
| Skin corrosion/irritation         | Category 2 - (H315)  |
| Serious eye damage/eye irritation | Category 1 - (H318)  |
| Reproductive toxicity             | Category 1A - (H360) |
| Chronic aquatic toxicity          | Category 3 - (H412)  |
| Corrosive to metals               | Category 1 - (H290)  |

### 2.2. Label elements

Contains Lead



Signal word



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Danger

## Hazard statements

H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H360 - May damage fertility or the unborn child  
H412 - Harmful to aquatic life with long lasting effects  
H290 - May be corrosive to metals

## Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
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 or doctor  
P234 - Keep only in original container  
P406 - Store in corrosive resistant stainless steel container with a resistant inner liner

## 2.3. Other hazards

No information available.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## Endocrine Disruptor Information

| Chemical name | EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation | EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances |
|---------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Nitric Acid   | -                                                                                                                   | -                                                                          |

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

**Chemical nature** aqueous solution.

| Chemical name | Weight-% | REACH registration number | EC No | Classification according to Regulation (EC) No. | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---------------|----------|---------------------------|-------|-------------------------------------------------|------------------------------------|----------|----------------------|
|---------------|----------|---------------------------|-------|-------------------------------------------------|------------------------------------|----------|----------------------|



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|                          |         |   |           | 1272/2008 [CLP]                                                                                                                     |                                                                                                                   |   |    |
|--------------------------|---------|---|-----------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---|----|
| Nitric Acid<br>7697-37-2 | 3 - <5  | - | 231-714-2 | Ox. Liq. 2 (H272)<br>Acute Tox. 3 (H331)<br>Skin Corr. 1A (H314)                                                                    | Ox. Liq. 2 ::<br>C>=99%<br>Ox. Liq. 3 ::<br>C>=65%<br>Skin Corr. 1A ::<br>C>=20%<br>Skin Corr. 1B ::<br>5%<=C<20% |   |    |
| Lead<br>7439-92-1        | 0.1 - 1 | - | 231-100-4 | Carc. 2 (H351)<br>Repr. 1A (H360FD)<br>Lact. (H362)<br>STOT RE 1 (H372)<br>Aquatic Acute 1<br>(H400)<br>Aquatic Chronic 1<br>(H410) | Repr. 1A ::<br>C>=0.03%                                                                                           | 1 | 10 |

Full text of H- and EUH-phrases: see section 16

## Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE<sub>mix</sub>) for classifying a mixture based on its components

| Chemical name            | Oral LD50<br>mg/kg   | Dermal LD50<br>mg/kg | Inhalation LC50 - 4<br>hour - dust/mist - mg/L | Inhalation LC50 - 4<br>hour - vapour - mg/L | Inhalation LC50 - 4<br>hour - gas - ppm |
|--------------------------|----------------------|----------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------|
| Nitric Acid<br>7697-37-2 | No data<br>available | No data available    | No data available                              | 2.65                                        | No data available                       |

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

| Chemical name | CAS No    | SVHC candidates |
|---------------|-----------|-----------------|
| Lead          | 7439-92-1 | X               |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.



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|                                    |                                                                                                                                                                                                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation                         | Remove to fresh air. Get medical attention immediately if symptoms occur.                                                                                                                                                                                        |
| Eye contact                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical advice/attention. |
| Skin contact                       | Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.                                                                                                                           |
| Ingestion                          | Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.                                                                                                                                                       |
| Self-protection of the first aider | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).                                                                                                                                                                    |

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

|          |                    |
|----------|--------------------|
| Symptoms | Burning sensation. |
|----------|--------------------|

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

|                 |                        |
|-----------------|------------------------|
| Note to doctors | Treat symptomatically. |
|-----------------|------------------------|

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

|                              |                                                                                                         |
|------------------------------|---------------------------------------------------------------------------------------------------------|
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|------------------------------|---------------------------------------------------------------------------------------------------------|

|            |                                                                    |
|------------|--------------------------------------------------------------------|
| Large Fire | CAUTION: Use of water spray when fighting fire may be inefficient. |
|------------|--------------------------------------------------------------------|

|                                |                                                                   |
|--------------------------------|-------------------------------------------------------------------|
| Unsuitable extinguishing media | Do not scatter spilled material with high pressure water streams. |
|--------------------------------|-------------------------------------------------------------------|

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

|                                            |                           |
|--------------------------------------------|---------------------------|
| Specific hazards arising from the chemical | No information available. |
|--------------------------------------------|---------------------------|

### 5.3. Advice for firefighters

|                                                                |                                                                                                                                    |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|

## **SECTION 6: Accidental release measures**



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

|                                 |                                                                                                                        |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b>     | Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. |
| <b>Other information</b>        | Refer to protective measures listed in Sections 7 and 8.                                                               |
| <b>For emergency responders</b> | Use personal protection recommended in Section 8.                                                                      |

## 6.2. Environmental precautions

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| <b>Environmental precautions</b> | Prevent further leakage or spillage if safe to do so. |
|----------------------------------|-------------------------------------------------------|

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

|                                        |                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------|
| <b>Methods for containment</b>         | Prevent further leakage or spillage if safe to do so.                                |
| <b>Methods for cleaning up</b>         | Take up mechanically, placing in appropriate containers for disposal.                |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations. |

## 6.4. Reference to other sections

|                                    |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| <b>Reference to other sections</b> | See section 8 for more information. See section 13 for more information. |
|------------------------------------|--------------------------------------------------------------------------|

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

|                                       |                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Advice on safe handling</b>        | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash it before reuse.                                                           |
| <b>General hygiene considerations</b> | Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. |

### 7.2. Conditions for safe storage, including any incompatibilities

|                           |                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA. |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



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## 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

| Chemical name            | European Union                                              | Austria                                                       | Belgium                                                                                 | Bulgaria                                                                                | Croatia                                                                                  |
|--------------------------|-------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Nitric Acid<br>7697-37-2 | -                                                           | STEL 1 ppm<br>STEL 2.6 mg/m <sup>3</sup>                      | STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup>                                              | STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup>                                              | STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup>                                               |
| Lead<br>7439-92-1        | TWA: 0.15 mg/m <sup>3</sup>                                 | TWA: 0.1 mg/m <sup>3</sup><br>STEL 0.4 mg/m <sup>3</sup>      | -                                                                                       | TWA: 0.05 mg/m <sup>3</sup>                                                             | TWA: 0.15 mg/m <sup>3</sup>                                                              |
| Chemical name            | Cyprus                                                      | Czech Republic                                                | Denmark                                                                                 | Estonia                                                                                 | Finland                                                                                  |
| Nitric Acid<br>7697-37-2 | STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup>                  | TWA: 1 mg/m <sup>3</sup><br>Ceiling: 2.5 mg/m <sup>3</sup>    | STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup>                                              | STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup>                                              | TWA: 0.5 ppm<br>TWA: 1.3 mg/m <sup>3</sup><br>STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup> |
| Lead<br>7439-92-1        | TWA: 0.15 mg/m <sup>3</sup>                                 | TWA: 0.05 mg/m <sup>3</sup><br>Ceiling: 0.2 mg/m <sup>3</sup> | TWA: 0.05 mg/m <sup>3</sup>                                                             | TWA: 0.1 mg/m <sup>3</sup><br>TWA: 0.05 mg/m <sup>3</sup>                               | TWA: 0.1 mg/m <sup>3</sup>                                                               |
| Chemical name            | France                                                      | Germany                                                       | Germany MAK                                                                             | Greece                                                                                  | Hungary                                                                                  |
| Nitric Acid<br>7697-37-2 | STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup>                  | TWA: 1 ppm<br>TWA: 2.6 mg/m <sup>3</sup>                      | -                                                                                       | STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup>                                              | STEL: 2.6 mg/m <sup>3</sup>                                                              |
| Lead<br>7439-92-1        | TWA: 0.1 mg/m <sup>3</sup>                                  | -                                                             | TWA: 0.004 mg/m <sup>3</sup><br>Peak: 0.032 mg/m <sup>3</sup>                           | TWA: 0.15 mg/m <sup>3</sup>                                                             | TWA: 0.1 mg/m <sup>3</sup><br>TWA: 0.05 mg/m <sup>3</sup>                                |
| Chemical name            | Ireland                                                     | Italy                                                         | Italy REL                                                                               | Latvia                                                                                  | Lithuania                                                                                |
| Nitric Acid<br>7697-37-2 | STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup>                  | STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup>                    | TWA: 2 ppm<br>TWA: 5.2 mg/m <sup>3</sup><br>STEL: 4 ppm<br>STEL: 10.3 mg/m <sup>3</sup> | TWA: 0.78 ppm<br>TWA: 2 mg/m <sup>3</sup><br>STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup> | STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup>                                               |
| Lead<br>7439-92-1        | TWA: 0.15 mg/m <sup>3</sup><br>STEL: 0.45 mg/m <sup>3</sup> | TWA: 0.15 mg/m <sup>3</sup>                                   | TWA: 0.05 mg/m <sup>3</sup>                                                             | TWA: 0.05 mg/m <sup>3</sup><br>STEL: 0.1 mg/m <sup>3</sup>                              | TWA: 0.15 mg/m <sup>3</sup><br>TWA: 0.07 mg/m <sup>3</sup>                               |
| Chemical name            | Luxembourg                                                  | Malta                                                         | Netherlands                                                                             | Norway                                                                                  | Poland                                                                                   |
| Nitric Acid<br>7697-37-2 | STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup>                  | STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup>                    | STEL: 1.3 mg/m <sup>3</sup>                                                             | TWA: 2 ppm<br>TWA: 5 mg/m <sup>3</sup><br>STEL: 4 ppm<br>STEL: 10 mg/m <sup>3</sup>     | STEL: 2.6 mg/m <sup>3</sup><br>TWA: 1.4 mg/m <sup>3</sup>                                |
| Lead<br>7439-92-1        | TWA: 0.15 mg/m <sup>3</sup>                                 | -                                                             | TWA: 0.15 mg/m <sup>3</sup>                                                             | TWA: 0.05 mg/m <sup>3</sup><br>STEL: 0.15 mg/m <sup>3</sup>                             | TWA: 0.05 mg/m <sup>3</sup>                                                              |
| Chemical name            | Portugal                                                    | Romania                                                       | Slovakia                                                                                | Slovenia                                                                                | Spain                                                                                    |
| Nitric Acid              | TWA: 2 ppm                                                  | -                                                             | Ceiling: 2.6 mg/m <sup>3</sup>                                                          | TWA: 1 ppm                                                                              | STEL: 1 ppm                                                                              |



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| 7697-37-2                | STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup>                                                               |                             |                                                                                    | TWA: 2.6 mg/m <sup>3</sup><br>STEL: STEL ppm<br>STEL: STEL mg/m <sup>3</sup> | STEL: 2.6 mg/m <sup>3</sup>                                 |
|--------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------|
| Lead<br>7439-92-1        | TWA: 0.05 mg/m <sup>3</sup>                                                                              | TWA: 0.15 mg/m <sup>3</sup> | TWA: 0.15 mg/m <sup>3</sup><br>TWA: 0.5 mg/m <sup>3</sup>                          | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.4 mg/m <sup>3</sup>                    | TWA: 0.15 mg/m <sup>3</sup>                                 |
| Chemical name            | Sweden                                                                                                   |                             | Switzerland                                                                        |                                                                              | United Kingdom                                              |
| Nitric Acid<br>7697-37-2 | NGV: 0.5 ppm<br>NGV: 1.3 mg/m <sup>3</sup><br>Bindande KGV: 1 ppm<br>Bindande KGV: 2.6 mg/m <sup>3</sup> |                             | TWA: 2 ppm<br>TWA: 5 mg/m <sup>3</sup><br>STEL: 2 ppm<br>STEL: 5 mg/m <sup>3</sup> |                                                                              | STEL: 1 ppm<br>STEL: 2.6 mg/m <sup>3</sup>                  |
| Lead<br>7439-92-1        | NGV: 0.1 mg/m <sup>3</sup><br>NGV: 0.05 mg/m <sup>3</sup>                                                |                             | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.8 mg/m <sup>3</sup>                          |                                                                              | TWA: 0.15 mg/m <sup>3</sup><br>STEL: 0.45 mg/m <sup>3</sup> |

## Biological occupational exposure limits

| Chemical name     | European Union                                                                                                                                           | Austria                                                                                                                                                                                                                                                                                                                                                                                                                                           | Bulgaria                                                                   | Croatia                                                                                                                                                                                                                                                                                    | Czech Republic                                                                                                                                                                                                                                                                                                        |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lead<br>7439-92-1 | 70 µg/100 mL - blood (Lead) - no restriction<br>0.075 mg/m <sup>3</sup> - air (Lead) - 40 hours per week<br>40 µg/100 mL - blood (Lead) - no restriction | 120 µg/100 mL RBC Erythrocyte protoporphyrin (blood - Ethylenediaminetetracetic acid not provided)<br>30 µg/100 mL blood Lead (blood - Ethylenediaminetetracetic acid not provided)<br>3.8 million/µL Erythrocytes (blood - Ethylenediaminetetracetic acid not provided)<br>12 g/dL Hemoglobin (blood - Ethylenediaminetetracetic acid not provided)<br>35 % Hematocrit (blood - Ethylenediaminetetracetic acid not provided)<br>10 mg/L (urine - | 300 µg/L - blood (Lead) - not fixed<br>400 µg/L - blood (Lead) - not fixed | 400 µg Pb/L - blood (Lead) - not critical<br>300 µg Pb/L - blood (Lead) - not critical<br>15 U/LE - blood (.delta.-Aminolevulinic acid dehydratase) - not critical<br>1.50 mg/LE - blood (Protoporphyrin in erythrocytes) - after exposure during 2-3 months (sample protected from light) | 13 µmol/mmol Creatinine (urine - 5-Aminolevulinic acid discretionary)<br>0.035 µmol/mmol Creatinine (urine - Coproporphyrin discretionary)<br>15 mg/g Creatinine (urine - 5-Aminolevulinic acid discretionary)<br>0.2 mg/g Creatinine (urine - Coproporphyrin discretionary)<br>0.4 mg/L (blood - Lead discretionary) |



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|                   |                                                                                                                                      | .delta.-Aminolevulinic acid not provided)<br>3.2 million/µL<br>Erythrocytes (blood -<br>Ethylenediaminetetraacetic acid not provided)<br>10 g/dL Hemoglobin (blood -<br>Ethylenediaminetetraacetic acid not provided)<br>30 % Hematocrit (blood -<br>Ethylenediaminetetraacetic acid not provided)<br>6 mg/L (urine -<br>.delta.-Aminolevulinic acid not provided) |                                                                                                                                                                         |                                                                                                                                                        |                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Chemical name     | Denmark                                                                                                                              | Finland                                                                                                                                                                                                                                                                                                                                                            | France                                                                                                                                                                  | Germany                                                                                                                                                | Germany                                      |
| Lead<br>7439-92-1 | 20 µg/100 mL (blood - Lead )                                                                                                         | 1.4 µmol/L (blood - Lead time of day does not matter)                                                                                                                                                                                                                                                                                                              | 400 µg/L - blood (Lead) -<br>180 µg/L - blood (Lead) - indifferent sampling time<br>300 µg/L - blood (Lead) -<br>200 µg/L - blood (Lead) -<br>100 µg/L - blood (Lead) - | 150 µg/L (whole blood - Lead no restriction)<br>150 µg/L - BAT (not fixed) blood<br>30 µg/L - BAR (not fixed) blood<br>40 µg/L - BAR (not fixed) blood | 150 µg/L (whole blood - Lead no restriction) |
| Chemical name     | Hungary                                                                                                                              | Ireland                                                                                                                                                                                                                                                                                                                                                            | Italy                                                                                                                                                                   | Italy REL                                                                                                                                              |                                              |
| Lead<br>7439-92-1 | -                                                                                                                                    | 70 µg/100 mL (blood - Lead not critical)<br>40 µg/100 mL (blood - Lead not critical)<br>30 µg/100 mL (blood - Lead not critical)                                                                                                                                                                                                                                   | 60 Pb µg/100 mL (blood - end of workweek)                                                                                                                               | 30 µg/100 mL - blood (Lead) - not critical                                                                                                             |                                              |
| Chemical name     | Latvia                                                                                                                               | Luxembourg                                                                                                                                                                                                                                                                                                                                                         | Romania                                                                                                                                                                 | Slovakia                                                                                                                                               |                                              |
| Lead<br>7439-92-1 | 40 µg/100 mL - blood (Lead) -<br>100 µg/g Creatinine - urine (Coproporphyrin) -<br>5 mg/g Creatinine - urine (Aminolevulinic acid) - | 70 µg/100 mL - blood (Lead) -<br>0.072 mg/m <sup>3</sup> - blood (Lead) -<br>40 µg/100 mL - blood (Lead) -                                                                                                                                                                                                                                                         | 150 µg/L - urine (Lead) - end of shift<br>70 µg/100 mL - blood (Lead) - end of shift<br>3 mg/cm - hair (Lead) - end of shift                                            | 400 µg/L (blood - Lead not critical)<br>100 µg/L (blood - Lead not critical)<br>15 mg/L (urine -<br>.delta.-Aminolevulinic                             |                                              |



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|                   |                                                                                  |                                      |                                                                                                                                                                                                                     |                                                                                                                                           |
|-------------------|----------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                                                                                  |                                      | 10 mg/L - urine<br>(.delta.-Aminolevulinic acid) - end of shift<br>300 µg/L - urine<br>(Coproporphyrin) - end of shift<br>100 µg/100 mL<br>erythrocyte - blood (free erythrocytes<br>protoporphyrin) - end of shift | acid not critical)<br>6 mg/L (urine -<br>.delta.-Aminolevulinic acid not critical)<br>0.30 mg/L (urine -<br>Coproporphyrins not critical) |
| Chemical name     | Slovenia                                                                         | Spain                                | Switzerland                                                                                                                                                                                                         | United Kingdom                                                                                                                            |
| Lead<br>7439-92-1 | 400 µg/L - blood (Lead) - not relevant<br>300 µg/L - blood (Lead) - not relevant | 70 µg/dL (blood - Lead not critical) | 400 µg/L (whole blood - Lead no restrictions)<br>100 µg/L (whole blood - Lead no restrictions)                                                                                                                      | -                                                                                                                                         |

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

## 8.2. Exposure controls

### Personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves. Impervious gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective Neoprene™ gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.



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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |                          |
|-----------------|--------------------------|
| Physical state  | Liquid                   |
| Appearance      | Liquid                   |
| Colour          | colourless               |
| Odour           | Odourless.               |
| Odour threshold | No information available |

| Property                                | Values                   | Remarks • Method         |
|-----------------------------------------|--------------------------|--------------------------|
| Melting point / freezing point          | No data available        | None known               |
| Initial boiling point and boiling range | No data available        | None known               |
| Flammability                            | No data available        | None known               |
| Flammability Limit in Air               |                          | None known               |
| Upper flammability or explosive limits  | No data available        |                          |
| Lower flammability or explosive limits  | No data available        |                          |
| Flash point                             | No data available        | None known               |
| Autoignition temperature                | No data available        | None known               |
| Decomposition temperature               |                          | None known               |
| pH                                      | No data available        | None known               |
| pH (as aqueous solution)                | No data available        | No information available |
| Kinematic viscosity                     | No data available        | None known               |
| Dynamic viscosity                       | No data available        | None known               |
| Water solubility                        | No data available        | None known               |
| Solubility(ies)                         | No data available        | None known               |
| Partition coefficient                   | No data available        | None known               |
| Vapour pressure                         | No data available        | None known               |
| Relative density                        | No data available        | None known               |
| Bulk density                            | No data available        |                          |
| Liquid Density                          | No data available        |                          |
| Relative vapour density                 | No data available        | None known               |
| Particle characteristics                |                          |                          |
| Particle Size                           | No information available |                          |
| Particle Size Distribution              | No information available |                          |

### 9.2. Other information

9.2.1. Information with regards to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available



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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity No information available.

### 10.2. Chemical stability

Stability Stable under normal conditions.

### Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid Exposure to air or moisture over prolonged periods.

### 10.5. Incompatible materials

Incompatible materials Oxidising agent. Strong acids. Strong bases.

Hazardous decomposition products None known based on information supplied.

## SECTION 11: Toxicological information

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

#### Information on likely routes of exposure

#### Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.



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## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. Burning. May cause blindness. May cause redness and tearing of the eyes.

## Numerical measures of toxicity

### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-vapour) 58.90 mg/l

## Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50                                     |
|---------------|-----------|-------------|-----------------------------------------------------|
| Nitric Acid   |           |             | = 2500 ppm ( Rat ) 1 h<br>ATE (vapours) = 2.65 mg/L |

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes skin irritation.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes burns. Causes serious eye damage.

**Respiratory or skin sensitisation** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** Contains a known or suspected carcinogen.

**Reproductive toxicity** Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

| Chemical name | European Union    |
|---------------|-------------------|
| Lead          | Repr. 1A<br>Lact. |



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STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

### 11.2.2. Other information

Other adverse effects No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish                                                                                                                               | Toxicity to microorganisms | Crustacea                        |
|---------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------|
| Lead          | -                    | LC50: =0.44mg/L (96h, Cyprinus carpio)<br>LC50: =1.17mg/L (96h, Oncorhynchus mykiss)<br>LC50: =1.32mg/L (96h, Oncorhynchus mykiss) | -                          | EC50: =600µg/L (48h, water flea) |

### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

### Component Information



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| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Nitric Acid   | -2.3                  |

## 12.4. Mobility in soil

Mobility in soil No information available.

## 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

| Chemical name | PBT and vPvB assessment                                       |
|---------------|---------------------------------------------------------------|
| Nitric Acid   | The substance is not PBT / vPvB PBT assessment does not apply |
| Lead          | PBT assessment does not apply                                 |

## 12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

## 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

## SECTION 14: Transport information

### IATA

|                                   |                                                                           |
|-----------------------------------|---------------------------------------------------------------------------|
| 14.1 UN number or ID number       | UN3264                                                                    |
| 14.2 UN proper shipping name      | Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)                 |
| 14.3 Transport hazard class(es)   | 8                                                                         |
| 14.4 Packing group                | III                                                                       |
| Description                       | UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid), 8, III |
| 14.5 Environmental hazards        | Not applicable                                                            |
| 14.6 Special precautions for user |                                                                           |



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|                    |          |
|--------------------|----------|
| Special Provisions | A3, A803 |
| ERG Code           | 8L       |

## IMDG

|                                                              |                                                                           |
|--------------------------------------------------------------|---------------------------------------------------------------------------|
| 14.1 UN number or ID number                                  | UN3264                                                                    |
| 14.2 UN proper shipping name                                 | Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)                 |
| 14.3 Transport hazard class(es)                              | 8                                                                         |
| 14.4 Packing group                                           | III                                                                       |
| Description                                                  | UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid), 8, III |
| 14.5 Marine pollutant                                        | NP                                                                        |
| 14.6 Special precautions for user                            |                                                                           |
| Special Provisions                                           | 223, 274                                                                  |
| EmS-No                                                       | F-A, S-B No information available                                         |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available                                                  |

## RID

|                                   |                                                                           |
|-----------------------------------|---------------------------------------------------------------------------|
| 14.1 UN number or ID number       | UN3264                                                                    |
| 14.2 UN proper shipping name      | Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)                 |
| 14.3 Transport hazard class(es)   | 8                                                                         |
| 14.4 Packing group                | III                                                                       |
| Description                       | UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid), 8, III |
| 14.5 Environmental hazards        | Not applicable                                                            |
| 14.6 Special precautions for user |                                                                           |
| Special Provisions                | 274                                                                       |
| Classification code               | C1                                                                        |

## ADR

|                                   |                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------|
| 14.1 UN number or ID number       | UN3264                                                                         |
| 14.2 UN proper shipping name      | Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)                      |
| 14.3 Transport hazard class(es)   | 8                                                                              |
| 14.4 Packing group                | III                                                                            |
| Description                       | UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid), 8, III, (E) |
| 14.5 Environmental hazards        | Not applicable                                                                 |
| 14.6 Special precautions for user |                                                                                |
| Special Provisions                | 274                                                                            |
| Classification code               | C1                                                                             |
| Tunnel restriction code           | (E)                                                                            |

## SECTION 15: Regulatory information

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

#### National regulations

France



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## Occupational Illnesses (R-463-3, France)

| Chemical name     | French RG number | Title |
|-------------------|------------------|-------|
| Lead<br>7439-92-1 | RG 1             | -     |

Water hazard class (WGK) slightly hazardous to water (WGK 1)

## Netherlands

| Chemical name | Netherlands - List of Carcinogens | Netherlands - List of Carcinogens | Netherlands - List of Reproductive Toxins                                            |
|---------------|-----------------------------------|-----------------------------------|--------------------------------------------------------------------------------------|
| Lead          | -                                 | -                                 | Fertility Category 1A<br>Development Category 1A<br>Can be harmful via breastfeeding |

## Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).



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## European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

## Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

## DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Product contains: Restricted explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 5 (1) and (3)

| Chemical name           | RESTRICTED EXPLOSIVES<br>PRECURSORS - ANNEX I | REPORTABLE EXPLOSIVES<br>PRECURSORS - ANNEX II |
|-------------------------|-----------------------------------------------|------------------------------------------------|
| Nitric Acid - 7697-37-2 | 3 %w/w                                        | -                                              |

| Chemical name    | Restricted substance per REACH<br>Annex XVII | Substance subject to authorisation per<br>REACH Annex XIV |
|------------------|----------------------------------------------|-----------------------------------------------------------|
| Lead - 7439-92-1 | 72.<br>30.<br>63.<br>75.                     |                                                           |

## Persistent Organic Pollutants

Not applicable

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

## EU - Water Framework Directive (2000/60/EC)

| Chemical name    | EU - Water Framework Directive (2000/60/EC) |
|------------------|---------------------------------------------|
| Lead - 7439-92-1 | Priority substance                          |

## EU - Environmental Quality Standards (2008/105/EC)

| Chemical name    | EU - Environmental Quality Standards (2008/105/EC) |
|------------------|----------------------------------------------------|
| Lead - 7439-92-1 | Priority substance                                 |

## International Inventories

TSCA

DSL/NDSL

EINECS/ELINCS

ENCS

IECSC

KECL

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status



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**PICCS** Contact supplier for inventory compliance status  
**AIIC** Contact supplier for inventory compliance status

## Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

## 15.2. Chemical safety assessment

**Chemical Safety Report** A Chemical Safety Assessment is not required for this substance

## SECTION 16: Other information

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

#### Full text of H-Statements referred to under section 3

H272 - May intensify fire; oxidiser  
H314 - Causes severe skin burns and eye damage  
H331 - Toxic if inhaled  
H351 - Suspected of causing cancer  
H360FD - May damage fertility. May damage the unborn child  
H362 - May cause harm to breast-fed children  
H372 - Causes damage to organs through prolonged or repeated exposure  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: Exposure controls/personal protection

**TWA** TWA (time-weighted average) **STEL** STEL (Short Term Exposure Limit)  
**Ceiling** Maximum limit value \* Skin designation

| Classification procedure                                        |                    |
|-----------------------------------------------------------------|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity                                             | Calculation method |
| Acute dermal toxicity                                           | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |



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|                                       |                       |
|---------------------------------------|-----------------------|
| Acute inhalation toxicity - Vapour    | Calculation method    |
| Acute inhalation toxicity - dust/mist | Calculation method    |
| Skin corrosion/irritation             | On basis of test data |
| Serious eye damage/eye irritation     | On basis of test data |
| Respiratory sensitisation             | Calculation method    |
| Skin sensitisation                    | Calculation method    |
| Mutagenicity                          | Calculation method    |
| Carcinogenicity                       | Calculation method    |
| STOT - single exposure                | On basis of test data |
| STOT - repeated exposure              | Calculation method    |
| Acute aquatic toxicity                | Calculation method    |
| Chronic aquatic toxicity              | Calculation method    |
| Aspiration hazard                     | Calculation method    |
| Ozone                                 | Calculation method    |
| Corrosive to metals                   | On basis of test data |

## Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

Revision date 23-Jun-2022

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

## Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise



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when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

**End of Safety Data Sheet**