

MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier

Product form : Substance
:
CAS No : 10009-74-8
Product code : 04377

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Industrial. For professional use only.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Labogens Fine Chem Industries
1st Floor , Above Bank of India, Guru Vihar , Rahon Road,
Ludhiana Pb. (141007)
+91 9316777775, +91 7707855700
sales@labogens.com - www.Labogens.com

1.4. Emergency telephone number

Emergency number : +91 7707855700 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Oxidising Solids, H272
Category 2
Acute toxicity (oral), H302
Category 4
Acute toxicity (inhal.), H332
Category 4
Reproductive toxicity, H360
Category 1A
Specific target organ H373
toxicity — Repeated
exposure, Category 2
Hazardous to the aquatic H410
environment — Chronic
Hazard, Category 1

Full text of classification categories and H statements : see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC

Repr.Cat.1; R61

Repr.Cat.3; R62

O; R8

Xn; R20/22

Xi; R41

N; R50/53

R33

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS03



GHS07



GHS08



GHS09

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H272 - May intensify fire; oxidiser
H302+H332 - Harmful if swallowed or if inhaled
H360 - May damage fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P201 - Obtain special instructions before use
P220 - Keep/Store away from clothing/.../combustible materials
P273 - Avoid release to the environment
P308+P313 - IF exposed or concerned: Get medical advice/attention
P501 - Dispose of contents/container to ...

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : LEAD NITRATE Extra Pure

CAS No : 10009-74-8

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

3.2. Mixture

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
- First-aid measures after skin contact : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

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

- Symptoms/injuries : May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure.
- Symptoms/injuries after inhalation : Harmful if inhaled.
- Symptoms/injuries after ingestion : Harmful if swallowed.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : May intensify fire; oxidiser.
- Explosion hazard : Heating may cause a fire or explosion.

5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Use personal protective equipment as required.
- Emergency procedures : Stop release.

6.2. Environmental precautions

Very toxic to aquatic life with long lasting effects.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Clear up rapidly by scoop or vacuum.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : protective gloves
Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear appropriate mask

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Colour : White crystalline.
Odour : odourless.
Odour threshold : No data available
pH : 3 - 4
Relative evaporation rate (butylacetate=1) : No data available
Melting point : 205 °C
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : 11
Relative density : No data available
Density : 4.53 g/cm³
Solubility : Water: 50 (gm in 100 gm of water)

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| | |
|----------------------|-------------------------------------------------------------------------------|
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : The substance or mixture is classified as oxidizing with the subcategory 2. |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

May intensify fire; oxidiser.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Overheating. Open flame. Heat. Sparks.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|----------------------------------------------------|----------------------------------------------------------------------|
| Acute toxicity | : Oral: Harmful if swallowed. Inhalation: Harmful if inhaled. |
| Skin corrosion/irritation | : Not classified pH: 3 - 4 |
| Serious eye damage/irritation | : Not classified pH: 3 - 4 |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : May damage fertility or the unborn child. |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : May cause damage to organs through prolonged or repeated exposure. |
| Additional information | : There are potential chronic health effects to consider |

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Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to ...

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1469
UN-No. (IMDG) : 1469
UN-No.(IATA) : 1469
UN-No.(ADN) : 1469
UN-No. (RID) : 1469

14.2. UN proper shipping name

Proper Shipping Name (ADR) : LEAD NITRATE
Proper Shipping Name (IMDG) : LEAD NITRATE
Proper Shipping Name (IATA) : LEAD NITRATE

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| | |
|---------------------------------------|-----------------------------------------------------------------------------------|
| Proper Shipping Name (ADN) | : LEAD NITRATE |
| Proper Shipping Name (RID) | : LEAD NITRATE |
| Transport document description (ADR) | : UN 1469 LEAD NITRATE, 5.1 (6.1), II, (E), ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IMDG) | : UN 1469 LEAD NITRATE, 5.1 (6.1), II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IATA) | : UN 1469 LEAD NITRATE, 5.1, II, ENVIRONMENTALLY HAZARDOUS |
| Transport document description (ADN) | : UN 1469 LEAD NITRATE, 5.1 (6.1), II, ENVIRONMENTALLY HAZARDOUS |
| Transport document description (RID) | : UN 1469 LEAD NITRATE, 5.1 (6.1), II, ENVIRONMENTALLY HAZARDOUS |

14.3. Transport hazard class(es)

ADR

| | |
|----------------------------------|-------------|
| Transport hazard class(es) (ADR) | : 5.1 (6.1) |
| Danger labels (ADR) | : 5.1, 6.1 |



IMDG

| | |
|-----------------------------------|-------------|
| Transport hazard class(es) (IMDG) | : 5.1 (6.1) |
| Danger labels (IMDG) | : 5.1, 6.1 |



IATA

| | |
|-----------------------------------|-------------|
| Transport hazard class(es) (IATA) | : 5.1 (6.1) |
| Hazard labels (IATA) | : 5.1, 6.1 |



ADN

| | |
|----------------------------------|-------------|
| Transport hazard class(es) (ADN) | : 5.1 (6.1) |
| Danger labels (ADN) | : 5.1, 6.1 |



RID

| | |
|----------------------------------|-------------|
| Transport hazard class(es) (RID) | : 5.1 (6.1) |
| Danger labels (RID) | : 5.1, 6.1 |

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14.4. Packing group

| | |
|----------------------|------|
| Packing group (ADR) | : II |
| Packing group (IMDG) | : II |
| Packing group (IATA) | : II |
| Packing group (ADN) | : II |
| Packing group (RID) | : II |

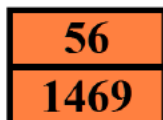
14.5. Environmental hazards

| | |
|-------------------------------|------------------------------------------|
| Dangerous for the environment | : Yes |
| Marine pollutant | : Yes |
| Other information | : No supplementary information available |

14.6. Special precautions for user

- Overland transport

| | |
|-------------------------------------------------------------------------|---------------|
| Classification code (ADR) | : OT2 |
| Limited quantities (ADR) | : 1kg |
| Excepted quantities (ADR) | : E2 |
| Packing instructions (ADR) | : P002, IBC08 |
| Special packing provisions (ADR) | : B4 |
| Mixed packing provisions (ADR) | : MP2 |
| Portable tank and bulk container instructions (ADR) | : T3 |
| Portable tank and bulk container special provisions (ADR) | : TP33 |
| Tank code (ADR) | : SGAN |
| Tank special provisions (ADR) | : TU3 |
| Vehicle for tank carriage | : AT |
| Transport category (ADR) | : 2 |
| Special provisions for carriage - Packages (ADR) | : V11 |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV24, CV28 |
| Hazard identification number (Kemler No.) | : 56 |
| Orange plates | : |



| | |
|-------------------------------|------|
| Tunnel restriction code (ADR) | : E |
| EAC code | : 1Y |

- Transport by sea

| | |
|---------------------------------|-----------|
| Limited quantities (IMDG) | : 1 kg |
| Excepted quantities (IMDG) | : E2 |
| Packing instructions (IMDG) | : P002 |
| IBC packing instructions (IMDG) | : IBC08 |
| IBC special provisions (IMDG) | : B2, B4 |
| Tank instructions (IMDG) | : T3, BK2 |
| Tank special provisions (IMDG) | : TP33 |
| EmS-No. (Fire) | : F-A |

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|-------------------------|-------|
| EmS-No. (Spillage) | : S-Q |
| Stowage category (IMDG) | : A |
| MFAG-No | : 141 |

- Air transport

| | |
|----------------------------------------------|--------|
| PCA Excepted quantities (IATA) | : E2 |
| PCA Limited quantities (IATA) | : Y543 |
| PCA limited quantity max net quantity (IATA) | : 1kg |
| PCA packing instructions (IATA) | : 558 |
| PCA max net quantity (IATA) | : 5kg |
| CAO packing instructions (IATA) | : 562 |
| CAO max net quantity (IATA) | : 25kg |
| ERG code (IATA) | : 5P |

- Inland waterway transport

| | |
|-----------------------------------|----------|
| Classification code (ADN) | : OT2 |
| Special provisions (ADN) | : 802 |
| Limited quantities (ADN) | : 1 kg |
| Excepted quantities (ADN) | : E2 |
| Equipment required (ADN) | : PP, EP |
| Number of blue cones/lights (ADN) | : 2 |

- Rail transport

| | |
|---------------------------------------------------------------|---------------|
| Classification code (RID) | : OT2 |
| Limited quantities (RID) | : 1kg |
| Excepted quantities (RID) | : E2 |
| Packing instructions (RID) | : P002, IBC08 |
| Special packing provisions (RID) | : B4 |
| Mixed packing provisions (RID) | : MP2 |
| Portable tank and bulk container instructions (RID) | : T3 |
| Portable tank and bulk container special provisions (RID) | : TP33 |
| Tank codes for RID tanks (RID) | : SGAN |
| Special provisions for RID tanks (RID) | : TU3 |
| Transport category (RID) | : 2 |
| Special provisions for carriage – Packages (RID) | : W11 |
| Special provisions for carriage – Loading and unloading (RID) | : CW24, CW28 |
| Colis express (express parcels) (RID) | : CE10 |
| Hazard identification number (RID) | : 56 |

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

LEAD NITRATE Extra Pure is not on the REACH Candidate List

LEAD NITRATE Extra Pure is not on the REACH Annex XIV List

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15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

| | |
|---------------------------|-------------------------------------------------------------------------------------------------|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Ox. Sol. 2 | Oxidising Solids, Category 2 |
| Repr. 1A | Reproductive toxicity, Category 1A |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| H272 | May intensify fire; oxidiser |
| H302 | Harmful if swallowed |
| H332 | Harmful if inhaled |
| H360 | May damage fertility or the unborn child |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H410 | Very toxic to aquatic life with long lasting effects |
| R20/22 | Harmful by inhalation and if swallowed |
| R33 | Danger of cumulative effects |
| R41 | Risk of serious damage to eyes |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R61 | May cause harm to the unborn child |
| R62 | Possible risk of impaired fertility |
| R8 | Contact with combustible material may cause fire |
| N | Dangerous for the environment |
| O | Oxidising |
| Xi | Irritant |

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| | |
|----|---------|
| Xn | Harmful |
|----|---------|

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