

# Material Safety Data Sheet



**LEAD CHROMATE LR**

VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

**Product Code : 15333**

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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name : LEAD CHROMATE LR  
Product code : 15333  
Identification of the product : LEAD CHROMATE LR  
CAS No : 7758-97-6  
EC Index-No. : 082-004-00-2  
EC No. : 231-846-0  
Synonyms : Lead (II) chromate

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

Identified uses : Laboratory chemicals, Manufacture of substances

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

**Company identification**  
MOLYCHEM INDIA LLP  
Office: Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade, Cuffe Parade, Mumbai 400 005 (INDIA)  
Tel: +91 22 4066 8111, 2205 7772 .  
Email : [info@molychem.net](mailto:info@molychem.net)  
Works: Plot No. B/9, Badlapur M.I.D.C.,  
OPP.Shobhavat Textile Co., Kulgaon, Badlapur (E),  
Dist.-Thane-421 503.

### 1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

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

Carcinogenicity, Category 1B H350  
Reproductive toxicity, Category 1A H360Df  
Specific target organ toxicity – Repeated exposure, Category 2 H373  
Hazardous to the aquatic environment – Acute Hazard, Category 1 H400  
Hazardous to the aquatic environment – Chronic Hazard, Category 1 H410

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

**Adverse physicochemical, human health and environmental effects**

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May cause cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

## 2.2. Label elements

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

Hazard pictograms (CLP)



GHS06 GHS09

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H350 - May cause cancer.

H360Df - May damage the unborn child. Suspected of damaging fertility.

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.

P273 - Avoid release to the environment.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## 3. Composition/information on ingredients

### 3.1. Substances

Name : LEAD CHROMATE LR

CAS-No : 7758-97-6

### 3.2. Mixtures

Not applicable

## 4. First aid measures

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## 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : IF exposed or concerned: Get medical advice/attention.                                                                                                                         |
| 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. Wash skin with plenty of water.                                            |
| 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 out with water. If you feel unwell, seek medical advice. Call a poison center or a doctor if you feel unwell.                                                      |
| First-aid measures for first aider    | : First aid workers will be equipped with suitable personal protective equipment                                                                                                 |

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

|                                     |                                                                                                                                                                                                                                                   |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing                                                                                                                          |
| Symptoms/effects after eye contact  | : None under normal conditions. Dust from this product may cause eye irritation.                                                                                                                                                                  |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                                                                                                                                   |
| Chronic symptoms                    | : May damage fertility or the unborn child.                                                                                                                                                                                                       |

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

Treat symptomatically.

## 5. Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

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Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : No fire hazard.  
Explosion hazard : No direct explosion hazard.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

## 5.3 Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## 6. Accidental release measures

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

General measures : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/ personal protection"  
Emergency procedures : Stop release. Evacuate unnecessary personnel.

### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

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For further information refer to section 13.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapours/spray.

Hygiene measures

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures

: Keep in a cool, well-ventilated place away from heat.

Storage conditions

: Store locked up.

Storage away from

: Direct sunlight. Air contact. Moisture.

### 7.3. Specific end use(s)

No additional information available

## 8. Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

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|                        |                                       |
|------------------------|---------------------------------------|
| Eye protection         | : Chemical goggles or safety glasses  |
| Hand protection        | : Wear protective gloves              |
| Skin protection        | : Wear suitable protective clothing   |
| Respiratory protection | : Wear appropriate mask.              |
| Thermal hazards        | : No additional information available |

## 8.2.3 Environmental exposure controls

Avoid release to the environment

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                              |                             |
|--------------------------------------------------------------|-----------------------------|
| Physical state                                               | : Solid                     |
| Appearance                                                   | : powder.                   |
| Molecular mass                                               | : 323.18 g/mol              |
| Colour                                                       | : Orange yellow             |
| Odour                                                        | : Odourless.                |
| Odour threshold                                              | : Not available             |
| pH                                                           | : Not available             |
| Melting point                                                | : 844 °C                    |
| Freezing point                                               | : Not applicable            |
| Boiling point                                                | : Decomposes                |
| Flash point                                                  | : Not applicable            |
| Auto-ignition temperature                                    | : Not applicable            |
| Decomposition temperature                                    | : Not available             |
| Flammability (solid, gas)                                    | : Not available             |
| Vapour pressure                                              | : Not available             |
| Relative vapour density at 20 °C                             | : Not applicable            |
| Relative density                                             | : Not available             |
| Density                                                      | : 6.12 g/cm <sup>3</sup>    |
| Solubility                                                   | : Water: Insoluble in water |
| Partition coefficient n-octanol/water (Log k <sub>ow</sub> ) | : Not available             |
| Viscosity, kinematic                                         | : Not applicable            |
| Explosive limits                                             | : Not applicable            |

### 9.2. Other information

No additional information available

## 10. Stability and reactivity

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## 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

## 10.5. Incompatible materials

No additional information available

## 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

### 11.1. Information on toxicological effects

|                                   |                                                                      |
|-----------------------------------|----------------------------------------------------------------------|
| Acute toxicity (oral)             | : Not classified                                                     |
| Acute toxicity (dermal)           | : Not classified                                                     |
| Acute toxicity (inhalation)       | : Not classified                                                     |
| Skin corrosion/irritation         | : Not classified                                                     |
| Additional information            | : Not classified                                                     |
| Serious eye damage/irritation     | : Not classified                                                     |
| Respiratory or skin sensitisation | : Not classified                                                     |
| Germ cell mutagenicity            | : Not classified                                                     |
| Carcinogenicity                   | : May cause cancer.                                                  |
| Reproductive toxicity             | : May damage the unborn child. Suspected of damaging fertility.      |
| STOT-single exposure              | : Not classified                                                     |
| STOT-repeated exposure            | : May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard                 | : Not classified                                                     |

## 12. Ecological information

### 12.1. Toxicity

|                                                          |                                                       |
|----------------------------------------------------------|-------------------------------------------------------|
| Ecology - general                                        | Very toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | Very toxic to aquatic life.                           |

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Hazardous to the aquatic environment, long-term (chronic) Very toxic to aquatic life with long lasting effects.

### 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

## 13. Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                                                                                                                                                        |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions                                                                                                                           |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                                                                                                                                             |
| Product/Packaging disposal recommendations | : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Disposal must be done according to official regulations. |
| Additional information                     | : Do not re-use empty containers.                                                                                                                                                                                      |

## 14. Transport information

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

### 14.1. UN number

|               |           |
|---------------|-----------|
| UN-No. (ADR)  | : UN 3077 |
| UN-No. (IMDG) | : UN 3077 |
| UN-No. (IATA) | : UN 3077 |
| UN-No. (ADN)  | : UN 3077 |
| UN-No. (RID)  | : UN 3077 |

### 14.2. UN proper shipping name

|                            |                                                      |
|----------------------------|------------------------------------------------------|
| Proper Shipping Name (ADR) | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
|----------------------------|------------------------------------------------------|

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|---------------------------------------|-------------------------------------------------------------------------------------------|
| Proper Shipping Name (IMDG)           | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.                                      |
| Proper Shipping Name (IATA)           | : Environmentally hazardous substance, solid, n.o.s.                                      |
| Proper Shipping Name (ADN)            | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.                                      |
| Proper Shipping Name (RID)            | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.                                      |
| Transport document description (ADR)  | : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (LEAD CHROMATE), 9, III, (-) |
| Transport document description(IMDG)  | : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT    |
| Transport document description (IATA) | : UN 3077 Environmentally hazardous substance, solid, n.o.s. (LEAD CHROMATE), 9, III      |
| Transport document description (ADN)  | : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III                      |
| Transport document description (RID)  | : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III                      |

## 14.3. Transport hazard class(es)

### ADR

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADR) | : 9 |
| Danger labels (ADR)              | : 9 |

### IMDG

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IMDG) | : 9 |
| Danger labels (IMDG)              | : 9 |

### IATA

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IATA) | : 9 |
| Danger labels (IATA)              | : 9 |

### ADN

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADN) | : 9 |
| Danger labels (ADN)              | : 9 |

### RID

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (RID) | : 9 |
| Danger labels (RID)              | : 9 |

## 14.4. Packing group

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

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## 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) : M7  
Limited quantities (ADR) : 5kg  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P002, IBC08, LP02, R001  
Mixed packing provisions (ADR) : MP10  
Portable tank and bulk container instructions (ADR) : T1, BK1, BK2, BK3  
Portable tank and bulk container special provisions (ADR) : TP33  
Tank code (ADR) : SGAV, LGBV  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Hazard identification number (Kemler No.) : 90  
Tunnel restriction code (ADR) : -  
EAC code : 2Z

### Transport by sea

Limited quantities (IMDG) : 5 kg  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : LP02, P002  
IBC packing instructions (IMDG) : IBC08  
Tank instructions (IMDG) : BK1, BK2, BK3, T1  
Tank special provisions (IMDG) : TP33  
Stowage category (IMDG) : A  
MFAG-No : 171

### Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y956  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA packing instructions (IATA) : 956  
PCA max net quantity (IATA) : 400kg  
CAO packing instructions (IATA) : 956  
CAO max net quantity (IATA) : 400kg  
ERG code (IATA) : 9L

### Inland waterway transport

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Classification code (ADN) : M7  
Limited quantities (ADN) : 5 kg  
Excepted quantities (ADN) : E1  
Carriage permitted (ADN) : T\* B\*\*  
Equipment required (ADN) : PP, A  
Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : M7  
Limited quantities (RID) : 5kg  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P002, IBC08, LP02, R001  
Mixed packing provisions (RID) : MP10  
Portable tank and bulk container instructions (RID) : T1, BK1, BK2, BK3  
Portable tank and bulk container special provisions (RID) : TP33  
Tank codes for RID tanks (RID) : SGAV, LGBV  
Transport category (RID) : 3  
Colis express (express parcels) (RID) : CE11  
Hazard identification number (RID) : 90

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## 15. Regulatory information

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

#### 15.1.1 EU-Regulations

##### EU restriction list (REACH Annex XVII)

| Reference code | Applicable on | Reference code | Applicable on |
|----------------|---------------|----------------|---------------|
| 28.            |               | LEAD CHROMATE  |               |
| 30.            |               | LEAD CHROMATE  |               |

Listed on REACH Annex XIV (Authorisation List): Lead chromate

Listed on the REACH Candidate List: Lead chromate

Listed on the PIC list (Regulation EU 649/2012): lead chromate

Not listed on the POP list (Regulation EU 2019/1021)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

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Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.1.2. National regulations

### France

#### Occupational diseases

| Code | Description                                 |
|------|---------------------------------------------|
| RG 1 | Conditions caused by lead and its compounds |

### Germany

Water hazard class (WGK)

: WGK 3, Highly hazardous to water (Classification according to AwSV).

Hazardous Incident Ordinance (12. BImSchV)

: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

### Netherlands

SZW-lijst van kankerverwekkende stoffen

: LEAD CHROMATE is listed

SZW-lijst van mutagene stoffen

: The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding

: The substance is not listed

SZW-lijst van reprotoxische stoffen –  
Vruchtbaarheid

: LEAD CHROMATE is listed

SZW-lijst van reprotoxische stoffen –  
Ontwikkeling

: LEAD CHROMATE is listed

### Denmark

Danish National Regulations

: 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

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## 16. Other information

### Abbreviations and acronyms

|     |                                                                                                 |
|-----|-------------------------------------------------------------------------------------------------|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
|-----|-------------------------------------------------------------------------------------------------|

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|                                           |                                                                                     |
|-------------------------------------------|-------------------------------------------------------------------------------------|
| ADR                                       | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE                                       | Acute Toxicity Estimate                                                             |
| BCF                                       | Bioconcentration factor                                                             |
| BLV                                       | Biological limit value                                                              |
| BOD                                       | Biochemical oxygen demand                                                           |
| COD                                       | Chemical oxygen demand                                                              |
| COD                                       | Chemical oxygen demand                                                              |
| DMEL                                      | Derived Minimal Effect level                                                        |
| DNEL                                      | Derived-No Effect Level                                                             |
| EC-No.                                    | European Community number                                                           |
| EC50                                      | Median effective concentration                                                      |
| EN                                        | European Standard                                                                   |
| IARC                                      | International Agency for Research on Cancer                                         |
| IATA                                      | International Air Transport Association                                             |
| IMDG                                      | International Maritime Dangerous Goods                                              |
| LC50                                      | Median lethal concentration                                                         |
| LD50                                      | Median lethal dose                                                                  |
| LOAEL                                     | Lowest Observed Adverse Effect Level                                                |
| NOAEC                                     | No-Observed Adverse Effect Concentration                                            |
| NOAEL                                     | No-Observed Adverse Effect Level                                                    |
| NOEC                                      | No-Observed Effect Concentration                                                    |
| OECD                                      | Organisation for Economic Co-operation and Development                              |
| OEL                                       | Occupational Exposure Limit                                                         |
| PBT                                       | Persistent Bioaccumulative Toxic                                                    |
| PNEC                                      | Predicted No-Effect Concentration                                                   |
| RID                                       | Regulations concerning the International Carriage of Dangerous Goods by Rail        |
| SDS                                       | Safety Data Sheet                                                                   |
| STP                                       | Sewage treatment plant                                                              |
| ThOD                                      | Theoretical oxygen demand (ThOD)                                                    |
| TLM                                       | Median Tolerance Limit                                                              |
| VOC                                       | Volatile Organic Compounds                                                          |
| CAS-No.                                   | Chemical Abstract Service number                                                    |
| N.O.S.                                    | Not Otherwise Specified                                                             |
| vPvB                                      | Very Persistent and Very Bioaccumulative                                            |
| ED                                        | Endocrine disrupting properties                                                     |
|                                           |                                                                                     |
| <b>Full text of H- and EUH-statements</b> |                                                                                     |
| Eye Irrit. 2                              | Serious eye damage/eye irritation, Category 2                                       |
| Flam. Liq. 2                              | Flammable liquids, Category 2                                                       |

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|           |                                                                        |
|-----------|------------------------------------------------------------------------|
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H225      | Highly flammable liquid and vapour.                                    |
| H319      | Causes serious eye irritation.                                         |
| H336      | May cause drowsiness or dizziness.                                     |
| EUH066    | Repeated exposure may cause skin dryness or cracking.                  |

Safety Data Sheet (SDS), EU 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.

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