

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: 04575

Issue date: 4/9/2014 Revision date: 9/4/2024 Supersedes version of: 4/9/2015 Version: 1.0

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

#### 1.1. Product identifier

Product form : Substance

Trade name : MERCURIC IODIDE RED EXTRA PURE

 EC Index-No.
 : 080-002-00-6

 EC-No.
 : 231-873-8

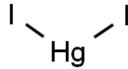
 CAS-No.
 : 7774-29-0

 Product code
 : 04575

Type of product : Inorganic compound

Formula : Hgl2

Chemical structure : •



Synonyms : Mercury (II) iodide, Mercury diiodide, Red Mercury

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

#### Relevant identified uses

Industrial/Professional use spec : Industrial

Use of the substance/mixture For professional use only Laboratory chemicals

Manufacture of substances

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

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba

400005 Mumbai

INDIA

T +91 22 6663 6663, F +91 22 6663 6699 <u>info@lobachemie.com</u>, <u>www.lobachemie.com</u>

# 1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (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]

Acute toxicity (oral), Category 1 H300
Acute toxicity (dermal), Category 1 H310
Acute toxicity (inhal.), Category 2 H330
Specific target organ toxicity – Repeated exposure, Category 2 H373
Hazardous to the aquatic environment – Chronic Hazard, H410

Category 1

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

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

May cause damage to organs through prolonged or repeated exposure. Fatal in contact with skin. Fatal if swallowed. Fatal if inhaled. Very toxic to aquatic life with long lasting effects.

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#### 2.2. Label elements

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

Hazard pictograms (CLP)







GHS06

GHS08

GHS09

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled.

H373 - May cause damage to organs through prolonged or repeated exposure.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P262 - Do not get in eyes, on skin, or on clothing.

P264 - Wash hands, forearms and face thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, respiratory protection.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

## 2.3. Other hazards

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

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

## 3.1. Substances

Substance type : Mono-constituent

| Name                | Product identifier  | %   |
|---------------------|---|-----|
| MERCURIC IODIDE RED | CAS-No.: 7774-29-0<br>EC-No.: 231-873-8<br>EC Index-No.: 080-002-00-6 | 100 |

# **SECTION 4: First aid measures**

First-aid measures after ingestion

## 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

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. Call a physician

immediately. Call a doctor.

First-aid measures after skin contact : Immediately call a POISON CENTER/doctor. Specific measures (see supplemental first aid

instruction on this label). Gently wash with plenty of soap and water. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Wash skin with plenty

of water. Call a physician immediately.

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.

Rinse mouth. Immediately call a POISON CENTER/doctor. Specific treatment (see

supplemental first aid instruction on this label). Call a physician immediately.

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 : Fatal if inhaled.

Symptoms/effects after skin contact : Fatal in contact with skin.

Symptoms/effects after eye contact : None under normal conditions. Dust from this product may cause eye irritation.

Symptoms/effects after ingestion : Fatal if swallowed.

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry

powder. Foam.

Unsuitable extinguishing media : Do not use extinguishing media containing water.

#### 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

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper

protective equipment, including respiratory protection.

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

breathing apparatus. Complete protective clothing.

## **SECTION 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.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Only

qualified personnel equipped with suitable protective equipment may intervene.

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 : Evacuate unnecessary personnel.

#### 6.2. Environmental precautions

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product. Clean up immediately by sweeping or vacuum.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

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Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe

dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Use only outdoors

or in a well-ventilated area.

Hygiene measures : Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when

using this product. Wash contaminated clothing before reuse. 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 in original container. Store in a dry place. Store locked up. Store in a well-ventilated

place. Keep container tightly closed.

Packaging materials : Store always product in container of same material as original container.

# 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

#### **Appropriate engineering controls**

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Personal protective equipment symbol(s):







#### Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses

# Skin protection

#### Skin and body protection:

Wear a mask

#### Hand protection:

Protective gloves

# **Respiratory protection**

# Respiratory protection:

Wear appropriate mask

#### **Environmental exposure controls**

# **Environmental exposure controls:**

Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Solid

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: Reddish orange. Colour Appearance : Powder. Molecular mass 454.4 g/mol Odour Odourless. Not available Odour threshold Melting point 259 °C Freezing point Not applicable Boiling point 350 °C Flammability : Not available : Not applicable Lower explosion limit Upper explosion limit : Not applicable : Not applicable Flash point : Not applicable Auto-ignition temperature Decomposition temperature : Not available рΗ : Not available pH solution : Not available

Solubility : Water: 0.006 g/100ml at 25 °C - Insoluble in water

Ethanol: Slightly soluble Ether: Slightly soluble Acetone: Slightly soluble

: Not applicable

Partition coefficient n-octanol/water (Log Kow) : Not available

Vapour pressure : 100 mm Hg at 261.8 °C

Vapour pressure at 50°C : Not available

Density : 6.36 g/cm³ at 20 °C

Relative density : Not available

Relative vapour density at 20°C : Not applicable

Particle size : Not available

## 9.2. Other information

Viscosity, kinematic

No additional information available

# **SECTION 10: Stability and reactivity**

# 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

Air contact. Direct sunlight. 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.

# **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Fatal if swallowed.

Acute toxicity (dermal) : Fatal in contact with skin.

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Acute toxicity (inhalation) : Fatal if inhaled. : Not classified Skin corrosion/irritation Serious eye damage/irritation : Not classified : Not classified Respiratory or skin sensitisation : Not classified Germ cell mutagenicity Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Additional information : There are potential chronic health effects to consider

Aspiration hazard

## **MERCURIC IODIDE RED EXTRA PURE (7774-29-0)**

Viscosity, kinematic Not applicable

#### 11.2. Information on other hazards

#### Other information

Potential adverse human health effects and

symptoms

: Fatal if swallowed, Fatal in contact with skin.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

: Very toxic to aquatic life with long lasting effects. Ecology - general : Very toxic to aquatic life with long lasting effects. Ecology - water

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Very toxic to aquatic life with long lasting effects.

# 12.2. Persistence and degradability

#### **MERCURIC IODIDE RED EXTRA PURE (7774-29-0)**

Persistence and degradability Rapidly degradable

#### 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. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

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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. Ecological information : Hazardous waste due to toxicity.

# **SECTION 14: Transport information**

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

#### 14.1. UN number or ID number

 UN-No. (ADR)
 : UN 1638

 UN-No. (IMDG)
 : UN 1638

 UN-No. (IATA)
 : UN 1638

 UN-No. (ADN)
 : UN 1638

 UN-No. (RID)
 : UN 1638

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : MERCURY IODIDE
Proper Shipping Name (IMDG) : MERCURY IODIDE
Proper Shipping Name (IATA) : Mercury iodide
Proper Shipping Name (ADN) : MERCURY IODIDE
Proper Shipping Name (RID) : MERCURY IODIDE

Transport document description (ADR) : UN 1638 MERCURY IODIDE, 6.1, II, (D/E)

Transport document description (IMDG) : UN 1638 MERCURY IODIDE, 6.1, II, MARINE POLLUTANT/ENVIRONMENTALLY

**HAZARDOUS** 

Transport document description (IATA)

: UN 1638 Mercury iodide, 6.1, II, ENVIRONMENTALLY HAZARDOUS

Transport document description (ADN)

: UN 1638 MERCURY IODIDE, 6.1, II, ENVIRONMENTALLY HAZARDOUS

Transport document description (RID)

: UN 1638 MERCURY IODIDE, 6.1, II, ENVIRONMENTALLY HAZARDOUS

# 14.3. Transport hazard class(es)

#### **ADR**

Transport hazard class(es) (ADR) : 6.1
Danger labels (ADR) : 6.1

.



#### **IMDG**

Transport hazard class(es) (IMDG) : 6.1
Danger labels (IMDG) : 6.1

#### IATA

Transport hazard class(es) (IATA) : 6.1

Danger labels (IATA) : 6.1



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#### **ADN**

Transport hazard class(es) (ADN) : 6.1 Danger labels (ADN) : 6.1

:



**RID** 

Transport hazard class(es) (RID) : 6.1 Danger labels (RID) : 6.1

.



#### 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
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-A

Other information : No supplementary information available

## 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : T5
Limited quantities (ADR) : 500g
Excepted quantities (ADR) : E4
Packing instructions (ADR) : P002, IBC08

Special packing provisions (ADR) : B4
Mixed packing provisions (ADR) : MP10
Portable tank and bulk container instructions (ADR) : T3
Portable tank and bulk container special provisions : TP33

(ADR)

Tank code (ADR) : SGAH
Tank special provisions (ADR) : TU15, TE19
Vehicle for tank carriage : AT

Transport category (ADR) : 2
Special provisions for carriage - Packages (ADR) : V11
Special provisions for carriage - Loading, unloading : CV13, CV28

and handling (ADR)

Special provisions for carriage - Operation (ADR) : S9, S19 Hazard identification number (Kemler No.) : 60

Orange plates :

60 1638

Tunnel restriction code (ADR) : D/E EAC code : 2X

#### Transport by sea

Limited quantities (IMDG) : 500 g
Excepted quantities (IMDG) : E4

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Packing instructions (IMDG) : P002
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B21, B4
Tank instructions (IMDG) : T3
Tank special provisions (IMDG) : T933
Stowage category (IMDG) : A

Segregation (IMDG) : SGG7, SGG11

Properties and observations (IMDG) : Red crystals or powder. Insoluble in water. Toxic if swallowed, by skin contact or by dust

inhalation.

MFAG-No : 151

#### Air transport

PCA Excepted quantities (IATA) : E4 PCA Limited quantities (IATA) Y644 PCA limited quantity max net quantity (IATA) 1kg PCA packing instructions (IATA) 669 PCA max net quantity (IATA) : 25kg CAO packing instructions (IATA) : 676 CAO max net quantity (IATA) : 100kg ERG code (IATA) : 6L

#### **Inland waterway transport**

Classification code (ADN) : T5

Special provisions (ADN) : 802

Limited quantities (ADN) : 500 g

Excepted quantities (ADN) : E4

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 2

#### Rail transport

Classification code (RID) : T5
Limited quantities (RID) : 500g
Excepted quantities (RID) : E4

Packing instructions (RID) : P002, IBC08

Special packing provisions (RID) : B4
Mixed packing provisions (RID) : MP10
Portable tank and bulk container instructions (RID) : T3
Portable tank and bulk container special provisions : TP33

(RID)

Tank codes for RID tanks (RID) : SGAH
Special provisions for RID tanks (RID) : TU15
Transport category (RID) : 2
Special provisions for carriage – Packages (RID) : W11

Special provisions for carriage - Loading, unloading : CW13, CW28, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE9
Hazard identification number (RID) : 60

# 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# **SECTION 15: Regulatory information**

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

# **EU-Regulations**

#### **REACH Annex XVII (Restriction List)**

Not listed on REACH Annex XVII

#### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

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#### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Listed on the PIC list (Regulation EU 649/2012): mercury diiodide

#### **POP Regulation (Persistent Organic Pollutants)**

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

## Ozone Regulation (1005/2009)

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

#### **Dual-Use Regulation (428/2009)**

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.

#### **Explosives Precursors Regulation (2019/1148)**

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

#### **Drug Precursors Regulation (273/2004)**

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)

#### **National regulations**

#### **France**

| Occupational diseases |   |
|-----------------------|---|
| Code                  | Description   |
| RG 2                  | Occupational diseases caused by mercury and its compounds |

#### Germany

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

Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic

requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the

shipping route (according to  $\S$  10).

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

## Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not 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 – : The substance is not listed

SZW-lijst van reprotoxische stoffen – : The subst Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not 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

# **SECTION 16: Other information**

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |

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| Abbreviations and acronyms: |  |  |
|-----------------------------|--|--|
| ATE                         | Acute Toxicity Estimate  |  |
| BCF                         | Bioconcentration factor  |  |
| BLV                         | Biological limit value   |  |
| BOD                         | Biochemical oxygen demand (BOD)  |  |
| COD                         | Chemical oxygen demand (COD)   |  |
| 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 disruptor  |  |

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| Acute Tox. 1 (Dermal)               | Acute toxicity (dermal), Category 1                               |
| Acute Tox. 1 (Oral)                 | Acute toxicity (oral), Category 1                                 |
| Acute Tox. 2 (Inhalation)           | Acute toxicity (inhal.), Category 2                               |
| Aquatic Chronic 1                   | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |

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| Full text of H- and EUH-statements: |  |  |
|-------------------------------------|--|--|
| H300                                | Fatal if swallowed.  |  |
| H310                                | Fatal in contact with skin.  |  |
| H330                                | Fatal if inhaled.  |  |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |  |
| H410                                | Very toxic to aquatic life with long lasting effects.              |  |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2     |  |

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.