

ECO-SOL MAX, ESL3-LM  
ECO-SOL MAX, ESL3-4LM

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 12/13/2024 Version: 7.0

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

## 1.1. Product identifier

Product form : Mixture  
Trade name : ECO-SOL MAX, ESL3-LM  
ECO-SOL MAX, ESL3-4LM  
UFI : 6EME-5WM9-RDKA-SEUK

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

## Relevant identified uses

Main use category : Professional use  
Function or use category : Inkjet Printing ink

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

## Manufacturer

Roland DG Corporation  
1-1-2 Shinmiyakoda, Hamana-ku,  
Hamamatsu-shi, Shizuoka-ken, 431-2103 Japan  
〒431-2103  
T +81-53-484-1200

## Supplier

Roland DG EMEA N.V.  
Bell Telephonelaan 2G, 2440 Geel, Belgium  
T +32 (0) 14 57 59 11  
[deu-demand-planning@rolanddg.com](mailto:deu-demand-planning@rolanddg.com)

## 1.4. Emergency telephone number

| Country/Area   | Organisation/Company                                     | Emergency number                                                      | Comment          |
|----------------|----------------------------------------------------------|-----------------------------------------------------------------------|------------------|
| Ireland        | Poisons Information Centre of Ireland                    | +353 18 37 99 64 (medical professionals)<br>+353 18 09 21 66 (public) |                  |
| Malta          | Malta Competition and Consumer Affairs Authority (MCCAA) | +356 2395 2000<br>1774 helpline for accidental poisoning              |                  |
| United Kingdom | Emergency number England                                 | 999<br>NHS 111                                                        | or call a doctor |

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 1 H318  
Reproductive toxicity, Category 1B H360  
Full text of H- and EUH-statements: see section 16

## Adverse physicochemical, human health and environmental effects

May damage fertility or the unborn child. Causes skin irritation. Causes serious eye damage.

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### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS05

GHS08

Signal word (CLP)

: Danger

Contains

: 2(3H)-Furanone, dihydro-; 2,5,8,11,14-Pentaoxapentadecane

Hazard statements (CLP)

: H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H360 - May damage fertility or the unborn child.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name                                                                                                     | Product identifier                                                   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]                             |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------|
| Ethane, 1,1'-oxybis[2-ethoxy-                                                                            | CAS-No.: 112-36-7<br>EC-No.: 203-963-7<br>REACH-no: 01-2119969946-13 | 55 – 65 | Skin Irrit. 2, H315                                                                         |
| 2(3H)-Furanone, dihydro-                                                                                 | CAS-No.: 96-48-0<br>REACH-no: 01-2119471839-21                       | < 20    | Acute Tox. 4 (Oral), H302 (ATE=800 mg/kg bodyweight)<br>Eye Dam. 1, H318<br>STOT SE 3, H336 |
| 2,5,8,11,14-Pentaoxapentadecane substance listed as REACH Candidate (Bis(2-(2-methoxyethoxy)ethyl)ether) | CAS-No.: 143-24-8<br>REACH-no: 01-2119958965-16                      | 10 – 20 | Repr. 1B, H360FD                                                                            |
| 3,6,9,12-tetraoxahexadecan-1-ol                                                                          | CAS-No.: 1559-34-8                                                   | 1 – 5   | Eye Irrit. 2, H319                                                                          |
| Colourants                                                                                               | -                                                                    | < 1     | Not classified                                                                              |

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

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**SECTION 4: First aid measures****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.                                                                                     |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.                           |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion    | : 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   | : 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 | : Irritation.                                                                                                                           |
| Symptoms/effects after eye contact  | : Serious damage to eyes.                                                                                                               |
| 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.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

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

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| 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 | : Stop leak if safe to do so. Absorb spillage to prevent material damage. |
|------------------|---------------------------------------------------------------------------|

**For non-emergency personnel**

|                      |                                                                                       |
|----------------------|---------------------------------------------------------------------------------------|
| Protective equipment | : Wear recommended personal protective equipment.                                     |
| Emergency procedures | : Only qualified personnel equipped with suitable protective equipment may intervene. |

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## For emergency responders

|                      |                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                               |

## 6.2. Environmental precautions

Avoid release to the environment.

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

|                         |                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material.                                                                                                                                       |
| 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

|                               |                                                                                                                                                                                                                                        |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. Wear personal protective equipment. Avoid contact with skin and eyes. |
| Hygiene measures              | : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. 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.                                                          |
| Packaging materials | : Store always product in container of same material as original container. |

## 7.3. Specific end use(s)

Inkjet Printing ink.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## DNEL and PNEC

| Ethane, 1,1'-oxybis[2-ethoxy- (112-36-7) |                           |
|------------------------------------------|---------------------------|
| DNEL/DMEL (Workers)                      |                           |
| Long-term - systemic effects, dermal     | 3.43 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 50.05 mg/m <sup>3</sup>   |

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## Ethane, 1,1'-oxybis[2-ethoxy- (112-36-7)

## DNEL/DMEL (General population)

|                                          |                           |
|------------------------------------------|---------------------------|
| Long-term - systemic effects,oral        | 1.71 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 5.96 mg/m <sup>3</sup>    |
| Long-term - systemic effects, dermal     | 1.71 mg/kg bodyweight/day |

## 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.

## Eye and face protection

## Eye protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear EN166 approved safety glasses or chemical splash goggles.

## Skin protection

## Skin and body protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear protective clothing.

## Hand protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, use protective gloves. Recommended impervious gloves is EN420/374 approved butyl rubber glove.

## Respiratory protection

## Respiratory protection:

In case of inadequate ventilation and exposure limits are exceeded or if irritation or other symptoms are experienced, use a NIOSH/MSHA or European Standard EN149 approved respirator (with activated carbon layer for organic vapour).

## Environmental exposure controls

## Environmental exposure controls:

Avoid release to the environment.

## Other information:

Wash hands immediately after handling the product.And wash it before reuse.Do not eat, drink or smoke during work.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

|                 |                   |
|-----------------|-------------------|
| Physical state  | : Liquid          |
| Colour          | : Magenta.        |
| Odour           | : characteristic. |
| Odour threshold | : Not available   |
| Melting point   | : Not applicable  |
| Freezing point  | : Not available   |

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|                                                 |                   |
|-------------------------------------------------|-------------------|
| Boiling point                                   | : Not available   |
| Flammability                                    | : Non flammable.  |
| Lower explosion limit                           | : Not available   |
| Upper explosion limit                           | : Not available   |
| Flash point                                     | : > 71 °C         |
| Auto-ignition temperature                       | : Not available   |
| Decomposition temperature                       | : Not available   |
| pH                                              | : Not available   |
| Viscosity, kinematic                            | : Not available   |
| Solubility                                      | : Easily soluble. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available   |
| Vapour pressure                                 | : Not available   |
| Vapour pressure at 50°C                         | : Not available   |
| Density                                         | : 0.9 – 1         |
| Relative density                                | : Not available   |
| Relative vapour density at 20°C                 | : Not available   |
| Particle characteristics                        | : Not applicable  |

**9.2. Other information****Other safety characteristics**

VOC content : &lt; 950 g/l

**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**

None under recommended storage and handling conditions.

**10.5. Incompatible materials**

No additional information available

**10.6. Hazardous decomposition products**

Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met).

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|                                   |                                                                                              |
|-----------------------------------|----------------------------------------------------------------------------------------------|
| Acute toxicity (dermal)           | : Not classified (Based on available data, the classification criteria are not met)          |
| Acute toxicity (inhalation)       | : Not classified (Based on available data, the classification criteria are not met)          |
| Skin corrosion/irritation         | : Causes skin irritation.<br>pH: Not available                                               |
| Serious eye damage/irritation     | : Causes serious eye damage.<br>pH: Not available                                            |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met)          |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)          |
| Carcinogenicity                   | : IARC evaluated printing ink as a Group3(Not classifiable as to carcinogenicity to humans). |

### 2(3H)-Furanone, dihydro- (96-48-0)

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| IARC group             | 3 - Not classifiable                                                                |
| Reproductive toxicity  | : May damage fertility or the unborn child.                                         |
| STOT-single exposure   | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard      | : Not classified (Based on available data, the classification criteria are not met) |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met)                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met)                                     |

### 12.2. Persistence and degradability

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|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | No data 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. Endocrine disrupting properties

No additional information available

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## 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.                                    |
| 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 | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.                                                             |
| European List of Waste (LoW, EC 2000/532)  | : 08 03 12* - waste ink containing dangerous substances                                       |

## SECTION 14: Transport information

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

| ADR                                    | IMDG          | IATA          | ADN           | RID           |
|----------------------------------------|---------------|---------------|---------------|---------------|
| 14.1. UN number or ID number           |               |               |               |               |
| Not regulated for transport            |               |               |               |               |
| 14.2. UN proper shipping name          |               |               |               |               |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es)       |               |               |               |               |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.4. Packing group                    |               |               |               |               |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5. Environmental hazards            |               |               |               |               |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available |               |               |               |               |

## 14.6. Special precautions for user

## Overland transport

Not regulated

## Transport by sea

Not regulated

## Air transport

Not regulated

## Inland waterway transport

Not regulated



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## Rail transport

Not regulated

## 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 XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

## REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations  $\geq 0.1\%$  or SCL: Bis(2-(2-methoxyethoxy)ethyl)ether (CAS 143-24-8)

## PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

## POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

## Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

## 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.

## VOC Directive (2004/42)

VOC content : &lt; 950 g/l

## 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)

## 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                                     |

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| Abbreviations and acronyms: |                     |
|-----------------------------|---------------------|
| ED                          | Endocrine disruptor |

| Full text of H- and EUH-statements: |                                                                        |
|-------------------------------------|------------------------------------------------------------------------|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                      |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                          |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                          |
| H302                                | Harmful if swallowed.                                                  |
| H315                                | Causes skin irritation.                                                |
| H318                                | Causes serious eye damage.                                             |
| H319                                | Causes serious eye irritation.                                         |
| H336                                | May cause drowsiness or dizziness.                                     |
| H360                                | May damage fertility or the unborn child.                              |
| H360FD                              | May damage fertility. May damage the unborn child.                     |
| Repr. 1B                            | Reproductive toxicity, Category 1B                                     |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                                  |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Narcosis |

RDG 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.