



# SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

## Lamdex 5 EC

Revision date 15-Sep-2022

Version 1.02

Supersedes Date:

13-Sep-2022

Product Code(s) INS05039-27

Print Date 15-Sep-2022

ADM.02750.1.3.C

## 1. Identification

### Product identifier

## Lamdex 5 EC

### Other means of identification

Synonyms Lambda cyhalothrin 50 EC  
Formulation type EC  
Registration Number(s) L7578

### Recommended use of the chemical and restrictions on use

Recommended use Insecticide  
Uses advised against No information available

### Detailed information about the manufacturer, supplier, and/or importer

Supplier ADAMA SOUTH AFRICA (PTY) LTD  
Ground Floor, Simeka House  
The Vineyards Office Estate  
99 Jip de Jager Drive  
Bellville 7530

### Emergency telephone number

Emergency Telephone +27 82 446 8946 (Griffon Poison Centre)  
+27 86 155 5777 (Tygerberg Poison Information Centre)  
+27 86 100 6366 and +27 83 253 6618 (SPILL TECH)

E-mail address SDS@ADAMA.COM

## 2. Hazard(s) identification

### Classification of the substance or mixture

|  |                     |
|--|---------------------|
| Aspiration hazard                                | Category 1 - (H304) |
| Acute toxicity - Oral                            | Category 4 - (H302) |
| Acute toxicity - Inhalation (Dusts/Mists)        | Category 4 - (H332) |
| Serious eye damage/eye irritation                | Category 2 - (H319) |
| Specific target organ toxicity (single exposure) | Category 3 - (H336) |
| Acute aquatic toxicity                           | Category 1 - (H400) |
| Chronic aquatic toxicity                         | Category 1 - (H410) |
| Flammable liquids                                | Category 4 - (H227) |

**Label elements****Signal word**

Danger

**Hazard pictograms****Hazard statements**

H302 - Harmful if swallowed  
 H304 - May be fatal if swallowed and enters airways  
 H319 - Causes serious eye irritation  
 H332 - Harmful if inhaled  
 H336 - May cause drowsiness or dizziness  
 H410 - Very toxic to aquatic life with long lasting effects  
 H227 - Combustible liquid

**Precautionary statements**

P102 - Keep out of reach of children  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
 P243 - Take precautionary measures against static discharge  
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
 P264 - Wash face, hands and any exposed skin thoroughly after handling  
 P264 + P265 - Wash face, hands and any exposed skin thoroughly after handling. Do not touch eyes  
 P270 - Do not eat, drink or smoke when using this product  
 P271 - Use only outdoors or in a well-ventilated area  
 P273 - Avoid release to the environment  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P301 + P316 - IF SWALLOWED: Get emergency medical help immediately  
 P301+317 - IF SWALLOWED: Get medical help  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P319 - Get medical help if you feel unwell  
 P330 - Rinse mouth  
 P331 - Do NOT induce vomiting  
 P337 + P317 - If eye irritation persists: Get medical help  
 P391 - Collect spillage  
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
 P405 - Store locked up  
 P501 - Dispose of contents/ container to an approved waste disposal plant

**Additional information**

This product is classified as hazardous according to the criteria in South Africa - GHS classification and labelling of chemicals – SANS10234 and the Regulations for Hazardous Chemical Agents - 2021.

**Other hazards**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**3. Composition/information on ingredients**

**Substance**

Not applicable

**Mixture****Synonyms**

Lambda cyhalothrin 50 EC

| Chemical name                           | CAS No     | Weight-% | EC No     | INTERNATIONAL GHS CLASSIFICATION   | M-Factor |
|---|------------|----------|-----------|--|----------|
| Solvent naphtha, petroleum, heavy arom. | 64742-94-5 | 78-87    | 265-198-5 | Flam. Liq. 4 (H227)<br>Asp. Tox. 1 (H304)<br>STOT SE 3 (H336)<br>Acute aquatic 2 (H401)<br>Aquatic Chronic 2 (H411)  |          |
| Castor oil ethoxylated                  | 61791-12-6 | 5-8      |           | Acute Tox. 4, oral (H302)  |          |
| lambda-cyhalothrin                      | 91465-08-6 | 4-7      | 415-130-7 | Acute Tox. 3 (H301)<br>Acute Tox. 4 (H312)<br>Acute Tox. 2 (H330)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)  | M=10000  |
| 2-Ethylhexane-1-ol                      | 104-76-7   | 2-4      |           | Acute toxicity, oral (H302)<br>Acute toxicity, dermal (H313) par<br>Skin Corr./Irrit. 2 (315) par Eye<br>Dam./Irrit. 1 (H318)<br>Aquatic Chronic 4 par STOT SE 3<br>(H335) par Flam. Liq. 3 (H226) |          |
| calcium dodecylbenzenesulphonate        | 26264-06-2 | 1-3      | 247-557-8 | Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)  |          |

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

Note: The other ingredients do not cause or contribute towards the correct GHS classification of Lamdex 5 EC and are therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021. Regulation 14(b), not listed in the table above.

**4. First-aid measures****Description of necessary first aid measures****General advice**

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider: Pay attention to self-protection.

**Inhalation**

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

**Skin contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

**Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention immediately if symptoms occur.

**Ingestion**

Rinse mouth. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

**For emergency responders**

**Self-protection of the first aider** Use personal protective equipment as required.

**Most important symptoms/effects, acute and delayed**

**Symptoms** None known.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Note to physicians** Treat symptomatically.

## **5. Fire-fighting measures**

**Suitable Extinguishing Media**

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

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

**Specific hazards arising from the chemical**

**Specific hazards arising from the chemical** Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.

**Flammable properties** Combustible material

**Explosive properties** No data available.

**Specific/special fire-fighting measures**

**Specific/special fire-fighting measures** No information available.

**Special protective equipment and precautions for fire-fighters**

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

## **6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Do not breathe dust.

**Environmental precautions**

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up**

**Methods for containment** Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**Other information** Refer to protective measures listed in Sections 7 and 8.

## 7. Handling and storage

### Preventive measures for safe handling

**Advice on safe handling** Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment.

### Precautions for safe handling

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children. Store locked up. Store away from other materials.

## 8. Exposure controls/personal protection

### Control parameters

**Exposure guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

### Appropriate engineering controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Use suitable protective clothing and equipment if required, such as safety goggles certified to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water repellent woven coverall with 65% polyester and 35 % cotton.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Local authorities should be advised if significant spillages cannot be contained.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

| <u>Property</u>                              | <u>Values</u>       | <u>Method</u> | <u>Remarks</u>                                       |
|--|---------------------|---------------|--|
| <b>Appearance</b>                            |                     |               |  |
| Physical state                               | : Liquid            |               |  |
| Color  | : yellow            |               |  |
| Odor   | : Pungent           |               |  |
| Odor threshold                               | : No data available |               |  |
| pH   | : 6.0 - 7.0         | CIPAC MT 75.3 | solution (1%)  |
| Melting point / freezing point °C            | : ----              |               | Not applicable                                       |
| Boiling point / boiling range °C             | : No data available |               |  |
| Flash point °C                               | : 63                | EEC A.9       |  |
| Evaporation rate                             | : ----              |               | No data available                                    |
| Flammability (solid, gas)                    | : Not applicable    |               |  |
| Upper/lower flammability or explosive limits | : No data available |               |  |
| Vapor pressure kPa                           | : ----              |               | Not applicable                                       |
| Vapor density                                | : No data available |               |  |
| Relative density                             | : 0.87 - 0.97       | EEC A.3       |  |
| Solubility(ies) mg/l                         | : ----              |               | Not applicable                                       |
| Partition coefficient Log Pow                | :                   |               | See Section 12 for additional Ecological Information |
| Autoignition temperature °C                  | : ----              |               | No data available                                    |
| Decomposition temperature °C                 | : No data available |               |  |
| Kinematic viscosity mm <sup>2</sup> /s 40 °C | : 1.8 - 4.2         | OECD 114      |  |
| Explosive properties                         | : No data available |               |  |
| Oxidizing properties                         | : No data available |               |  |
| Surface tension                              | : ----              |               | No data available                                    |
| Particle Size                                | : Not applicable    |               |  |
| <b>Other information</b>                     |                     |               |  |
| Bulk density g/ml                            | : ----              |               |  |

## 10. Stability and reactivity

### Reactivity

**Reactivity** No information available.

### Chemical stability

**Stability** Stable under normal conditions.

### Explosion data

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** Yes.

### Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

### Conditions to avoid

**Conditions to avoid** Heat, flames and sparks. Excessive heat.

**Incompatible materials**

**Incompatible materials** None known based on information supplied.

**Hazardous decomposition products**

**Hazardous decomposition products** None known based on information supplied.

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

|  | <u>Values</u>                | <u>Species</u> | <u>Method</u>  | <u>Remarks</u> |
|--|------------------------------|----------------|----------------|----------------|
| <b>Oral LD50 mg/kg</b>                   | : 500                        | Rat            | OECD 423       |                |
| <b>Dermal LD50 mg/kg</b>                 | : > 2000                     | Rat            | OPPTS 870.1200 |                |
| <b>Inhalation LC50 LC50</b>              | : 4.2                        | Rat            | OPPTS 870.1300 |                |
| <b>Skin corrosion/irritation</b>         | : Non-irritating to the skin | Rabbit         | OPPTS 870.2500 |                |
| <b>Serious eye damage/eye irritation</b> | : Irritating to eyes         | Rabbit         | OPPTS 870.2400 |                |
| <b>Sensitization</b>                     | : Not a skin sensitizer      | Guinea pig     | OPPTS 870.2600 |                |

**Chronic toxicity****Germ cell mutagenicity**

**Chemical name**  
lambda-cyhalothrin : Not classified

**Carcinogenicity**

**Chemical name**  
lambda-cyhalothrin : Not Carcinogenic

**Reproductive toxicity**

**Chemical name**  
lambda-cyhalothrin : Not toxic for the reproductive system

**STOT - Single Exposure**

**Chemical name**  
lambda-cyhalothrin : No data available

**STOT - Repeated Exposure**

**Chemical name**  
lambda-cyhalothrin : No data available

**Aspiration hazard**

**Chemical name**  
lambda-cyhalothrin : No data available

**12. Ecological information****Ecotoxicity****Aquatic toxicity**

|                                    | <u>Values</u> | <u>Species</u>      | <u>Method</u> | <u>Remarks</u>    |
|------------------------------------|---------------|---------------------|---------------|-------------------|
| <b>Acute toxicity</b>              |               |                     |               |                   |
| <b>Fish 96-hour LC50 mg/l</b>      | : 0.031       | Poecilia reticulata | OECD 203      |                   |
| <b>Crustacea 48-hour EC50 mg/l</b> | : ----        |                     |               | No data available |

|                         |   |      |                   |
|-------------------------|---|------|-------------------|
| Algae 72-hour EC50 mg/l | : | ---- | No data available |
| Other plants EC50 mg/l  | : | ---- | No data available |

|                          | <u>Values</u> | <u>Species</u>    | <u>Method</u> | <u>Remarks</u> |
|--------------------------|---------------|-------------------|---------------|----------------|
| Chronic aquatic toxicity |               |                   |               |                |
| Fish NOEC mg/l           | :             | No data available |               |                |
| Crustacea NOEC mg/l      | :             | No data available |               |                |
| Algae NOEC mg/l          | :             | No data available |               |                |
| Other plants NOEC mg/l   | :             | No data available |               |                |

**Terrestrial Toxicity****Birds Oral LD50 mg/kg****Chemical name**

|                    |   |        |              |
|--------------------|---|--------|--------------|
| lambda-cyhalothrin | : | > 3950 | Mallard duck |
|--------------------|---|--------|--------------|

**Bees Oral LD50 µg/bee****Chemical name**

|                    |   |       |
|--------------------|---|-------|
| lambda-cyhalothrin | : | 0.909 |
|--------------------|---|-------|

**Abiotic Degradation****Water DT50 days****Chemical name**

|                    |   |      |                   |
|--------------------|---|------|-------------------|
| lambda-cyhalothrin | : | ---- | No data available |
|--------------------|---|------|-------------------|

**Soil DT50 days****Chemical name**

|                    |   |      |                   |
|--------------------|---|------|-------------------|
| lambda-cyhalothrin | : | ---- | No data available |
|--------------------|---|------|-------------------|

**Biodegradation****Chemical name**

|                    |   |                   |
|--------------------|---|-------------------|
| lambda-cyhalothrin | : | No data available |
|--------------------|---|-------------------|

**Log Pow**ValuesMethodRemarks**Bioconcentration factor (BCF)****Chemical name**

|                    |   |      |                               |
|--------------------|---|------|-------------------------------|
| lambda-cyhalothrin | : | ---- | Low bioaccumulation potential |
|--------------------|---|------|-------------------------------|

**Adsorption/Desorption****Chemical name**

|                    | <u>Values</u> | <u>Method</u> | <u>Remarks</u>       |
|--------------------|---------------|---------------|----------------------|
| lambda-cyhalothrin | :             | ----          | Low mobility in soil |

**13. Disposal considerations**Disposal methods**Waste from residues/unused products**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging**

Improper disposal or reuse of this container may be dangerous and illegal.

**14. Transport information**ADR**14.1 UN number**

UN3082

**14.2 UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (lambda-cyhalothrin, Solvent naphtha, petroleum, heavy arom.)



|   |   |
|---|---|
| <b>14.3 Transport hazard class(es)</b>    | 9   |
| <b>Labels</b>                             | 9   |
| <b>14.4 Packing group</b>                 | III   |
| <b>Description</b>                        | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (lambda-cyhalothrin, Solvent naphtha, petroleum, heavy arom.), 9, III |
| <b>14.5 Environmental hazard</b>          | Yes   |
| <b>14.6 Special Precautions for Users</b> |   |
| <b>Special Provisions</b>                 | 274, 335, 601, 375  |
| <b>Classification code</b>                | M6  |

**RID**

|   |   |
|---|---|
| <b>14.1 UN number</b>                     | UN3082  |
| <b>14.2 UN proper shipping name</b>       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (lambda-cyhalothrin, Solvent naphtha, petroleum, heavy arom.)                 |
| <b>14.3 Transport hazard class(es)</b>    | 9   |
| <b>Labels</b>                             | 9   |
| <b>14.4 Packing group</b>                 | III   |
| <b>Description</b>                        | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (lambda-cyhalothrin, Solvent naphtha, petroleum, heavy arom.), 9, III |
| <b>14.5 Environmental hazard</b>          | Yes   |
| <b>14.6 Special Precautions for Users</b> |   |
| <b>Special Provisions</b>                 | 274, 335, 375, 601  |
| <b>Classification code</b>                | M6  |

**IMDG**

|   |   |
|---|---|
| <b>14.1 UN number</b>   | UN3082  |
| <b>14.2 UN proper shipping name</b>   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (lambda-cyhalothrin, Solvent naphtha, petroleum, heavy arom.)                                   |
| <b>14.3 Hazard Class</b>  | 9   |
| <b>14.4 Packing group</b>   | III   |
| <b>Description</b>  | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (lambda-cyhalothrin, Solvent naphtha, petroleum, heavy arom.), 9, III, Marine pollutant |
| <b>14.5 Marine pollutant</b>  | P   |
| <b>Environmental hazard</b>   | Yes   |
| <b>14.6 Special Precautions for Users</b>                                       |   |
| <b>Special Provisions</b>   | 274, 335, 969   |
| <b>EmS-No</b>   | F-A, S-F  |
| <b>IMDG Stowage and segregation</b>   | Category A  |
| <b>14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code</b> | No information available  |

**IATA**

|   |   |
|---|---|
| <b>14.1 UN number</b>                     | UN3082  |
| <b>14.2 UN proper shipping name</b>       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (lambda-cyhalothrin, Solvent naphtha, petroleum, heavy arom.)                 |
| <b>14.3 Transport hazard class(es)</b>    | 9   |
| <b>14.4 Packing group</b>                 | III   |
| <b>Description</b>                        | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (lambda-cyhalothrin, Solvent naphtha, petroleum, heavy arom.), 9, III |
| <b>14.5 Environmental hazard</b>          | Yes   |
| <b>14.6 Special Precautions for Users</b> |   |
| <b>Special Provisions</b>                 | A97, A158, A197   |
| <b>ERG Code</b>                           | 9L  |



\* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids

## 15. Regulatory information

### Safety, health and environmental regulations specific for the product in question

Registration Requirements: Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947). Pesticide Handling, Storage and Disposal Safety: SANS10206: 2020. Safety Data Sheet and Occupational Exposure Limit Requirements: Regulations for Hazardous Chemical Agents – 2021 – SA Occupational Health and Safety Act. SANS11014:2010. Control of and handling of poisonous/hazardous and non-poisonous/non-hazardous substances/chemicals in workplaces: Hazardous Substances Act, 1973 (Act No.15 of 1973). Occupational Health and Safety Act No. 85 of 1993.

## 16. Other information

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

H226 - Flammable liquid and vapor  
 H227 - Combustible liquid  
 H301 - Toxic if swallowed  
 H302 - Harmful if swallowed  
 H304 - May be fatal if swallowed and enters airways  
 H312 - Harmful in contact with skin  
 H313 - May be harmful in contact with skin  
 H315 - Causes skin irritation  
 H318 - Causes serious eye damage  
 H330 - Fatal if inhaled  
 H335 - May cause respiratory irritation  
 H336 - May cause drowsiness or dizziness  
 H400 - Very toxic to aquatic life  
 H410 - Very toxic to aquatic life with long lasting effects  
 H411 - Toxic to aquatic life with long lasting effects

**Date of preparation of the SDS** No data available

**Revision date** 15-Sep-2022

**Revision Note** Changes made to the last version are labeled with this sign \*\*\*.

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

|      |   |
|------|---|
| IMDG | International Maritime Dangerous Goods (IMDG)                                       |
| IATA | International Air Transport Association (IATA)                                      |
| ADR  | European Agreement concerning the International Carriage of Dangerous Goods by Road |

### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

### Abbreviations and acronyms

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ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CAS Number - Chemical Abstracts Service number  
EC Number - EINECS and ELINCS Number  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
LC50 - Lethal Concentration to 50 % of a test population  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
OECD - Organization for Economic Co-operation and Development  
PBT - Persistent, Bioaccumulative and Toxic substance  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
STOT - Specific Target Organ Toxicity  
vPvB - Very Persistent and Very Bioaccumulative

### **The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)**

#### **Classification of the mixture**

H302 - Harmful if swallowed  
H304 - May be fatal if swallowed and enters airways  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H336 - May cause drowsiness or dizziness  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

#### **Classification procedure**

Classification based on test data  
Classification based on Calculation method  
Classification based on test data  
Classification based on test data  
Classification based on Calculation method  
Classification based on test data  
Classification based on Calculation method

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**