

#### Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 01 Dec 2023

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product name:

Linuron

# 1.1. Catalog No.:

691508

# 1.2. Relevant identified uses of the substance or mixture Identified: Laboratory chemical uses: R&D

#### 1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

04451 Cunnersdorf Deutschland

Tel. +49 34291 3372-36 Fax. +49 34291 3372-39 contact@hpc-standards.com

#### 1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36 This number is only available during office hours.

# 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Reproductive toxicity (Category 1B) Carcinogenicity (Category 2) Acute toxicity, Oral (Category 4) Specific target organ toxicity - repeated exposure (Category 2) Acute aquatic toxicity (Category 1) Chronic aquatic toxicity (Category 1) Classification according to EU Directives 67/548/EEC or 1999/45/EC Limited evidence of a carcinogenic effect. May cause harm to the unborn of Limited evidence of a carcinogenic effect. May cause harm to the unborn child. Possible risk of impaired fertility. Harmful if swallowed. Harmful: danger of serious damage to health by prolonged exposure if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

# 2.2. Label elements

2.2.1. Pictogram





#### 2.2.2.

Signal word Danger Hazard statement(s) H302 Harmful if swallowed. H351 Suspected of causing 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 statement(s) P201 Obtain special instructions before use. P273 Avoid release to the environment. P281 Use personal protective equipment as required. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P501 Dispose of contents/ container to an approved waste disposal plant. Supplemental Hazard Statements none Restricted to professional users. 2.3 Other hazards - none

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Formula : C9H10Cl2N2O2 Molecular Weight : 249,09 g/mol Component Concentration Linuron CAS-No. EC-No. Index-No. 330-55-2 206-356-5 006-021-00-1

## 3.1.1. Formula

C9H10Cl2N2O2

# 3.1.2. Molecular Weight (g/mol)

249.09



# 3.1.3. CAS-No.

330-55-2

# 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. 4.2 Most important symptoms and effects, both acute and delayed To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed no data available

## 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. 5.2 Special hazards arising from the substance or mixture Hydrogen chloride gas Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas 5.3 Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary. 5.4 Further information no data available

# 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. 6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. 6.4 Reference to other sections For disposal see section 13.



# 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.

Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. 7.3 Specific end uses

no data available

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters 8.2 Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Personal protective equipment

Eye/face protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
a) Appearance Form: solid
b) Odour no data available
c) Odour Threshold no data available
d) ph a data available

- d) pH no data availablee) Melting point/freezing
- point
- no data available
- f) Initial boiling point and
- boiling range
- no data available
- g) Flash point no data available
   h) Evaporation rate no data available
- i) Flammability (solid, gas) no data available
   j) Upper/lower no data available flammability or
- explosive limits
- k) Vapour pressure no data available
- Napour density no data available
   Napour density no data available
   Relative density no data available
   Nater solubility slightly soluble
   Partition coefficient: noctanol/

- water
- log Pow: 3



p) Autoignition
temperature
no data available
q) Decomposition
temperature
no data available
r) Viscosity no data available
s) Explosive properties no data available
t) Oxidizing properties no data available
9.2 Other safety information
no data available

# **10. STABILITY AND REACTIVITY**

10.1 Reactivity no data available 10.2 Chemical stability no data available 10.3 Possibility of hazardous reactions no data available 10.4 Conditions to avoid no data available 10.5 Incompatible materials Bases 10.6 Hazardous decomposition products Other decomposition products - no data available

# **11. TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects Acute toxicity LD50 Oral - rat - 1.146 mg/kg LC50 Inhalation - rat - 4 h - 6.150 mg/m3 LD50 Dermal - rabbit - > 5.000 mg/kg Skin corrosion/irritation Skin - rabbit - No skin irritation Serious eye damage/eye irritation Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGH, NTP, or EPA classification. Limited evidence of carcinogenicity in animal studies IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity May cause congenital malformation in the fetus. Presumed human reproductive toxicant Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure no data available Specific target organ toxicity - repeated exposure no data available Specific target organ toxicity - repeated exposure no data available Specific target organ toxicity - repeated exposure no data available Specific target organ toxicity - repeated exposure no data available Specific target organ toxicity - repeated exposure no data available Specific target organ toxicity - repeated exposure no data available Specific target organ toxicity - repeated exposure no data available Specific target organ toxicity - repeated exposure no data available Specific target organ toxicity - repeated exposure no data available Specific target organ toxicity - repeated exposure no data available Specific target organ toxicity - repeated exposure no data available Specific target organ toxicity - repeated exposure no data available Specific target organ toxicity - repeated exposure no data available Specific target organ toxicity - repeated



Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes Causes eye irritation. Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Additional Information RTECS: YS9100000

# **12. ECOLOGICAL INFORMATION**

12.1 Toxicity Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 3 mg/l - 96,0 h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 0,12 mg/l - 48 h Toxicity to algae mortality LOEC - Chlamydomonas moewusii - 7,47 mg/l - 7 d mortality NOEC - Chlamydomonas moewusii - 4,98 mg/l - 7 d 12.2 Persistence and degradability no data available 12.3 Bioaccumulative potential no data available 12.4 Mobility in soil no data available 12.5 Results of PBT and vPvB assessment no data available 12.6 Other adverse effects Very toxic to aquatic life.

# 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contaminated packaging Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

14.1 UN number ADR/RID: 3077 IMDG: 3077 IATA: 3077 14.2 UN proper shipping name ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Linuron) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Linuron) IATA: Environmentally hazardous substance, solid, n.o.s. (Linuron) 14.3 Transport hazard class(es) ADR/RID: 9 IMDG: 9 IATA: 9 14.4 Packaging group ADR/RID: III IMDG: III IATA: III



14.5 Environmental hazards ADR/RID: yes IMDG Marine pollutant: yes IATA: yes 14.6 Special precautions for user no data available

# **15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available 15.2 Chemical Safety Assessment no data available

# **16. OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!