

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation	Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. When in doubt or if symptoms are observed, get medical advice.
Skin contact	Wash with plenty of water. When in doubt or if symptoms are observed, get medical advice.
Eye contact	Rinse immediately carefully and thoroughly with eye-bath or water. When in doubt or if symptoms are observed, get medical advice.
In case of ingestion	Rinse mouth thoroughly with water. When in doubt or if symptoms are observed, get medical advice.
Additional advice	First aider: Pay attention to self-protection! Personal protection equipment: see section 8 Never give anything by mouth to an unconscious person or a person with cramps. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

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

Inhalation	No adverse effects are expected. The following symptoms may occur: Inhalation of dust may cause irritation of the respiratory system.
Skin contact	No adverse effects are expected. The following symptoms may occur: Contact with dust can cause mechanical irritation or drying of the skin.
Eye contact	No adverse effects are expected. The following symptoms may occur: Dust contact with the eyes can lead to mechanical irritation.
Ingestion	No adverse effects are expected. The following symptoms may occur: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Other adverse effects	none.

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

Not applicable

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Water spray Foam Dry extinguishing powder

Extinguishing media which must not be used

for safety reasons: Strong water jet

5.2. Special hazards arising from the substance or mixture

Fire hazard Non-flammable.

Specific hazards Evacuate area. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose according to legislation.
Hazardous combustion products: Carbon oxides

5.3. Advice for firefighters

Advice for firefighters Special protective equipment for firefighters.
In case of fire: Wear self-contained breathing apparatus.
Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose according to legislation.
Evacuate area.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Evacuate area.
Provide adequate ventilation.
Use personal protective equipment as required. Personal protection equipment: see section 8

For emergency responders Ensure procedures and training for emergency decontamination and disposal are in place.
Personal protection equipment: see section 8.

6.2. Environmental precautions

Environmental precautions Do not allow to enter into ground-water, surface water or drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal. After cleaning, flush away traces with water. Dispose of waste product or used containers according to local regulations.

6.4. Reference to other sections

Personal protection equipment: see section 8 Disposal: see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling

Provide adequate ventilation.

Do not breathe dust.

Use personal protective equipment as required.

Personal protection equipment: see section 8

Take any precaution to avoid mixing with incompatible materials. See also section 10

Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time).

Do not allow contact with soil, surface or ground water.

Advices on general occupational hygiene

Keep good industrial hygiene.

Wash hands and face before breaks and immediately after handling of the product.

When using do not eat, drink or smoke.

Keep away from food, drink and animal feedingstuffs.

Take off contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Keep in a cool, well-ventilated place.

Recommended storage temperature < 35 °C

Do not store near or with any of the incompatible materials listed in section 10.

Packaging materials

Plastic bag

7.3. Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limit values Not applicable

8.2. Exposure controls

Personal protection equipment	Use personal protective equipment as required.
Respiratory protection	<p>In case of insufficient ventilation, wear suitable respiratory equipment. Effective dust mask. (EN 149)</p> <p>Half-face mask (EN 140)</p> <p>Full face mask (EN 136)</p> <p>Filter type: P (EN 143)</p> <p>The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)</p>
Hand protection	Wear chemically resistant gloves (tested to EN374) ,Wear gloves in accordance with EN 388 as a protection against mechanical risks.,The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Eye protection	Goggles (EN 166)
Body protection	Wear suitable protective clothing.
Thermal hazard protection	Not applicable
Engineering control measures	Provide adequate ventilation as well as local exhaust at critical locations. Organisational measures to prevent/limit releases, dispersion and exposure Avoid generation of dust. Safe handling: see section 7
Environmental exposure controls	Do not allow contact with soil, surface or ground water. Comply with applicable Community environmental protection legislation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Powder
Colour	Yellow, green, orange, pink, blue, Purple
Odour	characteristic

Odour threshold	No data available
pH	7
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	Partially soluble
Solubility in different media	No data available
Partition coefficient n-octanol/water	No data available
Auto-ignition temperature	4000 °C
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	Not applicable The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	Not applicable The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.

9.2. Other information

No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity None under normal processing. Reference to other sections: 10.4 & 10.5

10.2. Chemical stability

Stability : The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

Safe handling: see section 7

10.4. Conditions to avoid

Conditions to avoid

Safe handling: see section 7

10.5. Incompatible materials

Incompatible materials

Safe handling: see section 7

10.6. Hazardous decomposition products

Hazardous decomposition products

Reference to other sections: 5.2

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

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

Skin corrosion/irritation

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

pH: 7

Serious eye damage/eye irritation

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

pH: 7

Respiratory or skin sensitization

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

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

Reproductive toxicity

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

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.)

Other information

Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

12.2. Persistence and degradability

Persistence and degradability No data available

12.3. Bioaccumulative potential

Bioaccumulation No data available

Partition coefficient n-octanol/water No data available

12.4. Mobility in soil

Mobility No data available

12.5. Results of PBT and vPvB assessment

PBT/vPvB data Not applicable

12.6. Other adverse effects

Other information No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product waste: Dispose of empty containers and wastes safely. Safe handling: see section 7 Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration If recycling is not possible, eliminate in accordance with local valid waste disposal regulations Do not allow contact with soil, surface or ground water.

Contaminated packaging	Handle contaminated packages in the same way as the substance itself. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations
List of proposed waste codes/waste designations in accordance with EWC	This material and its container must be disposed of as hazardous waste. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN number NA

14.2. UN proper shipping name

Proper Shipping Name NA

14.3. Transport hazard class(es)

14.3.1. Overland transport

ADR/RID Not classified for this transport way.

Class(es) Not applicable

14.3.2. Inland waterway transport (ADN)

AND Not classified for this transport way.

14.3.3. Transport by sea

IMDG Not classified for this transport way.

Class or Division Not applicable

14.3.4. Air transport

ICAO/IATA Not classified for this transport way.

Class or Division Not applicable

14.4. Packing group

Packing group NA

14.5. Environmental hazards

Other information NA

14.6 Special precautions for user

Special precautions for user NA

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Code: IBC NA

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. Regulations**

Restrictions on use None

This product contains an ingredient according to the candidate list of Annex XIV of the REACH

Regulation 1907/2006/EC. none

Authorisations Not applicable

15.2. Chemical safety assessment

Chemical Safety Assessment No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: OTHER INFORMATION

Key literature references and sources for data

Supplier info LOLI

Abbreviations and acronyms

DNEL = Derived No Effect Level
DMEL = Derived minimal effect level
PNEC = Predicted No Effect Concentration
OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
TWA = time weighted average
LC50 = Median lethal concentration
LD50 = Median lethal dose
LL50 = Median lethal level
EC50 = Median Effective Concentration
EL50 = Median effective level
ErC50 = EC50 in terms of reduction of growth rate
ErL50 = EL50 in terms of reduction of growth rate
NOEL = No-observed-effect level
NOEC = No observed effect concentration
NOELR = No observed effect loading rate
NOAEC = No observed adverse effect concentration
NOAEL = No observed adverse effect level
EWC = European Waste Catalogue
NA = Not applicable
N.O.S. = Not Otherwise Specified
VOC = Volatile organic compounds Quantitative structure-activity relationship (QSAR)
ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)
ABM = Algemene beoordelingsmethodiek

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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