

Safety Data Sheet

According to 1907/2006/EC, article 31

Version: 1

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

1.1 Trade name:

Lotstop

For professional users

1.2 Relevant identified uses of the substance/mixture and uses advised against

Application of the substance / the preparation Solder stop

Uses advised against of the substance / the preparation -

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier

Bullnheimer & Co GmbH & Co KG
Im Tal 12
D- 86719 Augsburg

Phone: +49 (0) 821 80850-0
Telefax: +49 (0) 821 80850-94
E-Mail: info@bullnheimer.de
Web: http://www.bullnheimer.de

1.4 Emergency telephone number

Poison Info Center Berlin
24 hours service. Languages: german

Phone: +49 (0) 30 / 19240

1.5 Further information obtainable from

Bullnheimer & Co GmbH & Co KG, Contact data see above

SECTION 2: Hazards information

2.1 Classification of the product/mixture according to Regulation (EC) No 1272/2006

No hazardous substance/mixture

2.2 Labelling of the product/mixture according to Regulation (EC) No 1272/2006

Hazard pictograms: none

Signal word: none

Hazard statements: none

Precautionary statements: none

Additional labelling: EUH 210 Safety data sheet available on request.

EUH 208 Contains Benzisothiazolinone May produce an allergic reaction.

2.3 Other hazards

This substance / mixture contains no components, in concentrations of 0.1% or higher, which are either classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Chemical characterization

Aqueous mixture of graphit with non hazardous additions.

3.2 Hazardous ingredients

none

3.3 Additional informations

Contains no SVHC substances

SECTION 4: First aid measures

4.1 Description of first aid measures

General informations	Remove any clothing soiled by the product immediately.
After inhalation	Ensure supply of fresh air. In case of respiratory arrest or irregular breathing artificial respiration or oxygen respiration and seek medical advice immediately. In case of unconsciousness place and transport in stable side position.
After skin contact	Remove any clothing soiled by the product immediately. Wash off with water and soap. If skin irritation persists, consult a doctor.
After eye contact	After contact with the eyes, immediately rinse the open eyes 10 to 15 minutes under running water. Seek medical advice (oculist).
After swallowing	Give water to drink in small sips (dilution effect). Do not induce vomiting. Seek medical advice.
Self protection	First responders: take care of self-protection

4.2 Most important symptoms and effects, both acut and delayed

Symptoms: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 General informations

The product of itself does not burn. Extinguishing measures in accordance to the surrounding conditions.

5.2 Extinguishing media:

suitable: Water-spray, Carbon dioxid (CO₂), foam, extinguishing powder
Unsuitable: Water with full jet

5.3 Special hazards arising from the substance or mixture

In case of fire may be formed: carbon oxides (CO, CO₂)

5.4 Advice for firefighters

Protective equipment
Wear full protective suit with self-contained breathing apparatus.

Additional informations

Collect contaminated fire fighting water separately. Do not allow to enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Do not inhale vapors. Wear personal protective equipment. Remove persons to safety. Keep unprotected persons away.

6.2 Environment precautions

Avoid penetration into drains, pits, cellars, water. Inform respective authorities in case of seepage into water courses or sewage system. Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up

Pick up mechanically. Contaminated material has to be disposed as waste (see section 13). Clean contaminated surface thoroughly.

6.4 Referenco to other sections

See section 7 for information on safe handling

See section 8 for inormation on personal protection equipment

See section 13 for disposal infomation

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Keep containers/bottles tightly closed. Avoid contact with eyes and skin.

Technical measures

No further informations available.

Information about fire- and expolsion protections

No further informations available.

Additional information

No further informations available.

7.2 Conditions for safe storage including any incompatibilities

Technical measures and conditions

Ensure good ventilation. Keep container tightly closed and store in a cool, well-ventilated place.

Packaging materials

Keep containers/bottles tightly closed. Use original containers/bottles only.

Requirements to be met by storerooms and receptacles

Store in cool, dry conditions. Observe official regulations on storage and handling of water harzardous substances.

Information about storage in one common storage facility

Keep away from foodstuffs, beverages and feed.

Further information about storage conditions

No further informations available.

Storage class: 12 non flammable liquids

7.3 Specific end use(s)

No further informations available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

Occupational exposure limits:

Substance:	CAS:	Occupational exposure limit value	Peak:	Remarks:
Dipropylenglykolmonomethylether (1-5%)	34590-94-8	310 mg/m ³ , 50 ml/m ³	1, (I)	DFG, EU

Additional information: The lists valid during the making were used as basis.

DNELs

34590-94-8 Dipropylenglykolmonomethylether (1-5%)

Orally DNEL (population) 1,67 mg/kg bw/day (Long-term)

Dermal DNEL (population) 15 mg/kg bw/day (Long-term-systemic-effects)

Dermal DNEL (worker) 65 mg/kg bw/day (Long-term-systemic-effects)

Inhalative DNEL (population) 37,2 mg/m³ (Long-term-systemic-effects)

Inhalative DNEL (worker) 310 mg/m³ (Long-term-systemic-effects)

PNEC-Werte

34590-94-8 Dipropylenglykolmonomethylether (1-5%)

PNEC 2,74 mg/kg dw (soil)

PNEC 4168 mg/l (sewage treatment plant)

PNEC aqua 19 mg/l (fresh water)

PNEC aqua 1,9 mg/l (marine water)

PNEC sediment 70,2 mg/kg (fresh water)

PNEC sediment 7,02 mg/kg (marine water)

8.2 Exposure controls

General protective and hygiene measures

Usually, clean handling is sufficient when handling the product.

Technical measures and the application of suitable work processes should be given priority over the use of personal protective equipment.

The personal protective equipment must be defined depending on the quantities and concentration of hazardous substances in the workplace. (Risk assessment)

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and the end of work. Store protective clothing separately. Avoid contact with eyes and skin.

Personal protective equipment

Minimum standards for protective measures when handling working substances are listed in TRGS 500.

Breathing equipment

Usually respiratory protection is not required.

Exceeding the minimum triggering level --> breathing filter apparatus

In case of brief exposure or low pollution use breathing filter apparatus. (Face mask according to DIN EN 136) with filter type A (P2) (according DIN EN 14387). In case of intensive or longer exposure use breathing apparatus that is independent of circulating air (according DIN EN 137).

Protection of hands

Chemical-resistant protective gloves (according EN 374-3:2003)

The glove material has to be impermeable and resistant to the product / the substance / the preparation.

Due to missing tests no recommendation to the glove material for the product / the preparation / the chemical mixture can be discharged. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For splash guard:

One way gloves

Material: Nitril-Butyl rubber

For permanent protection:

Material: Butyl rubber

Minimum layer thickness: $\geq 0,7$ mm

Break through time: ≥ 480 min

Eye protection

Tightly fitting safety glasses according DIN EN 166.

Body protection

Usually, no special protective clothing is requires when handling the product.

At larger product release wear protective clothing in accordance with DIN EN 13688:2013. Chemical resistant safety shoes or boots according DIN EN 13832-1:2006. If skin contact is possible, wear impenetrable protective clothing against this substance according DIN EN 13034:2005.

Environmental exposure controls

see section 7. There are no further action is required.

Consumer exposure control

see section 7. There are no further action is required.

8.3 Exposure scenario

none

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance**

Form: Viscous
Color: grey – black
Odour: Weak odour

Safety relevant basic data

	Parameter	Value	Unit	Remark
Density:	at 20°C	approx. 1,2	g/cm ³	
pH:		approx. 7		
Melting point / -range:				No data available
Initial boiling point/boiling range				No data available
Flashpoint				No data available
Ignition properties:				No data available
Lower ignition limits				No data available
Upper igniton limits				No data available
Explosiv properties				Product is not explosive.
Lower explosive limits				No data available
Upper explosive limits				No data available
Auto-ignition temperature				Products has no auto-ignition properties
Auto-ignition temperature				Products has no auto-ignition properties
Decomposition temperature				No data available

Oxidising properties

Products has no oxidising properties

Vapour pressure

No data available

Vapour density

No data available

Evaporation rate

No data available

Solubility in water

miscible

Partition coefficient

No data available

n-octanol/water**Viscosity:**

20°C

approx. mPa*s
2500Rotary viscosimeter
product is thixotropic**Value of solvents:****- organic solvents**

3 %

9.2 Additional information

No further relevant information available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No further relevant information available.

10.2 Chemical Stability

The product is stable under normal conditions.

10.3 Possibility of hazardous reactions

No further relevant information available.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition productsIn case of fire may be formed: carbon oxides (CO, CO₂)**10.7 Additional information**

No further relevant information available.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

No data available for the mixture.

Acute Toxicity

Based on the available data, the classification criteria for acute toxicity are not met.

11.2 Primary irritant effect**On the skin**

No data available.

On the eye

No data available.

After inhalation

No data available.

11.3 Sensitisation

No sensitizing effects known.

11.4 Toxicity at repeated exposure

Specific target organ toxicity – single exposure

No data available.

Specific target organ toxicity – repeated exposure

No data available.

11.5 CMR-effects

Carcinogenity

No effects known.

Mutagenicity

No effects known.

Reproductiv toxicity

No effects known.

11.6 General remarks

No further relevant information available.

Practical experience

There is no information available.

Other observations

There is no information available.

Additional information

No further relevant information available.

SECTION 12: Ecological information

12.1 Information on toxicological effects

No data available for the mixture.

Ecotoxicity

Based on the available data, the classification criteria for acute ecotoxicity are not met.

Substance:	CAS:	Ecotoxicity
Dipropylenglykolmono-methylether (1-5%)	34590-94-8	LC50/96 h: >10.000 mg/l (Pimephales promelas) LC50/48 h: 1919 mg/l (Daphnia magna) EC50/96 h: 969 mg/l (Selenastrum capricornutum)

Data is from the GESTIS substance database

12.2 Persistence and degradability

No further relevant information available

12.3 Bioaccumulative potential

No further relevant information available

12.4 Mobility in soil

No further relevant information available

12.5 Results of PBT- and vPvB-assessment

The product does not meet the criteria for classification as PBT or vPvB.

12.6 Other adverse effects

No further relevant information available

12.7 Additional ecological information

Water hazard class 1 (German Regulation)(Self-assessment): slightly hazardous to water.
Do not allow product to reach ground water, water bodies or sewage system.

12.8 Additional information

No further relevant information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Chemicals must be disposed of in compliance with the respective national regulations.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste disposal key number

Since 01.01.1999 the waste code numbers have not only been product-related but are also essentially application-related.

Our Suggestion:

16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 03 off-specification batches and unused products
16 03 06 organic wastes other than those mentioned in 16 03 05

Uncleaned packagings

Disposal must be made according to official regulations. Packagings that may not be cleansed are not to be disposed in the same manner as the product.

SECTION 14: Transport informations

14.1 UN-Number

ADR, IMDG, IATA no dangerous goods according to ADR

14.2 Proper shipping name

ADR: --

IMDG: --

IATA: --

14.3 Transport hazard class(es)

ADR:

Class: --

Label: --

IMDG, IATA:

Class: --

Label: --

14.4 Packaging group

ADR, IMDG, IATA: --

14.5 Environmental hazards

Product contains environmental hazards: -

Marine pollutant: no

Special marking (ADR): -

14.6 Special precautions for user

Warning: --

Danger code (Kemler): --

EMS-Number: --
Segregation groups: --

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

Not applicable

14.8 Additional information

ADR:

Limited quantities (LQ): --
Excepted quantities (EQ): --
Transport category: --
Tunnel restriction code: --

IMDG:

Limited quantities (LQ): --
Excepted quantities (EQ): --

UN "Model Regulation": --

SECTION 15: Regulatory information

15.1 Classification and labelling

Hazardous components for labeling

Not applicable

Special instructions for the product

none

15.2 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

1999/13/EG on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations

Not relevant

1005/2009/EG on Substances which damage the ozone layer

Not relevant

850/2004/EG on Persistent Organic Pollutants

Not relevant

689/2008/EG on the export and import of dangerous chemicals

Not relevant

648/2004/EG on detergents

Not relevant

1907/2006/EG - Restrictions according title VIII of Regulation

Not relevant

2012/18/EU (Seveso-Directive)

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations

Must be observed

Storage class according VCI (German guideline)

Class 12 non flammable liquids

Substances of very high concern (SVHC) according REACH, Article 57

none

15.3 Information about limitation of use

Employment restrictions concerning young persons must be observed (94/33/EU).

Employment restrictions concerning pregnant and nursing women must be observed.

15.4 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other informations**16.1 Hazard statements under section 3**

Complete wording of hazard statements and risk phrases (H-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

16.2 Training advice

Users of breathing apparatus must be trained.

16.3 Recommended restriction(s) of application

See section 1.

16.4 Additional information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

16.5 Replacement documentaion

First issue

16.6 Origin of datas

Informations taken from reference works and literature as well as the instructions of the raw material suppliers.

16.7 Departement issuing MSDS

See section 1.5

16.8 Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organization
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINECS: European List of Notified Chemical Substances
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
VCI: Verband der chemischen Industrie (German Chemical Industry Association, Germany)
VbF: Verordnung über brennbare Flüssigkeiten (Regulations for flammable liquids, Germany)
TRbF: Technische Regeln für brennbare Flüssigkeiten (Technical regulations for flammable liquids)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted no-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
SVHC: Substance of Very High Concern
PBT: **P**ersistent, **B**ioakkumulierend, **T**oxisch
vPvB: very Persistent and very Bioaccumulative
