

SAFETY DATA SHEET ACCORDING TO OSHA HAZCOM 29 CFR 1910.1200**Product name: Harzlöser****Creation date: 07.12.2023, Revision: 07.12.2023, version: 1.0****Applicable to Shaper SKUs: SU1-BC1 and SU1-BC-1000L-BP****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Product name
Harzlöser

<https://my.chemius.net/p/3IMUal/en/pd/e5>**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses
Hard-surface cleaner.

Uses advised against
No information.

1.3 Details of the supplier of the safety data sheet**Supplier**

Washington Trading Company, Inc. - BALLISTOL USA
500 Sand Dune Drive
Units A & B
PO Box 900
NC 27949 Kitty Hawk, US
1-800-253-2460

Manufacturer

Ballistol GmbH
Ballistolweg 1
D-84168 Aham, Germany
+49 8744 96 99 - 0
info@ballistol.de

1.4 Emergency Telephone Number

Emergency
1-800-222-1222

Supplier
1-800-253-2460

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

OSHA HAZCOM 29 CFR 1910.1200: Classified in accordance with paragraph (d) of 29 CFR 1910.1200
Skin Irrit. 2; H315 Causes skin irritation.
Eye Irrit. 2; H319 Causes serious eye irritation.

2.2 Label elements

Label requirements in accordance with 29 CFR 1910.1200



Signal word: WARNING

H315 Causes skin irritation.

H319 Causes serious eye irritation.

P264 Wash hands thoroughly after handling.

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

P302 + P352 IF ON SKIN: Wash with plenty of soap and 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.

P321 Specific treatment (see instructions on this label).

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

2.3 Hazard(s) not otherwise classified (HNOC)**PBT/vPvB**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Additional information

No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

For mixtures see 3.2.

3.2 Mixtures

Name	CAS	%
C8 Alkyl glycoside	-	5-10
Chelating agents	-	2.5-5
potassium hydroxide	1310-58-3	1-2.5

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures****General notes**

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

Following inhalation

Remove patient to fresh air - move out of dangerous area. In case of unconsciousness bring patient into stable side position and seek medical attention. If breathing is irregular or respiratory arrest occurs provide artificial respiration. Keep at rest in a position comfortable for breathing. Seek medical help immediately.

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. Immediately obtain professional medical help!

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. After 5 minutes of rinsing, remove contact lenses, if present, and continue rinsing. Consult a physician immediately!

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

Immediately consult a doctor. Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Coughing, sneezing, nasal discharge, labored breathing.

Following skin contact

Itching, redness, pain.

Following eye contact

Redness, tearing, pain.

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort.

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

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3 Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (NFPA 1971) and NIOSH-approved self-contained breathing apparatus (SCBA) under 42 CFR Part 84.

Additional information

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

No information.

Precautionary measures

Ensure adequate ventilation.

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected

personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

Other information

No information.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Keep away from food, drink and animal feeding stuffs.

Packaging materials

Store only in original container.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

No information.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

No information.

Information on monitoring procedures

The permissible limits for air contaminants in the workplace: OSHA General Industry Standards (29 CFR Part 1910), Subpart Z - Toxic and Hazardous Substances, 1910.1000 - Air Contaminants.

OSHA 1910.134(a)(1): In the control of those occupational diseases caused by breathing air contaminated with harmful dusts, fogs, fumes, mists, gases, smokes, sprays, or vapors, the primary objective shall be to prevent atmospheric contamination. This shall be accomplished as far as feasible by accepted engineering control measures (for example, enclosure or confinement of the operation, general and local ventilation, and substitution of less toxic materials). When effective engineering controls are not feasible, or while they are being instituted, appropriate respirators shall be used pursuant to this section.

DNEL/DMEL values

For product

No information.

For components

No information.

PNEC values

For product

No information.

For components

No information.

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse. Keep eyewash bottles or personal eyewash units and emergency showers available.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

Safety glasses with side protection (ANSI/ISEA Z87.1).

Hand protection

Protective gloves (ANSI/ISEA 105). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must

be observed.

Appropriate materials

Skin protection

Cotton protective clothing and shoes that cover the entire foot (ASTM F2412, ASTM F2413).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (NIOSH approved) with filter A2-P2.

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

No information.

Odour

No information.

Important health, safety and environmental information

Odour threshold	No information.
Melting point/Freezing point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	No information.
Viscosity	No information.
Solubility	No information.
Partition coefficient	No information.
Vapour pressure	No information.
Density and/or relative density	No information.
Relative vapour density	No information.
Particle characteristics	No information.

9.2 Other information

Explosive properties	No information.
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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

No information.

10.4 Conditions to avoid

No information.

10.5 Incompatible materials

No information.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

(a) Acute toxicity

For product

Exposure route	Type	Species	Time	value	Method	Remark
oral	LD ₅₀	rat	/	> 15000 mg/kg	/	/

For components

Name	Exposure route	Type	Species	Time	value	Method	Remark
potassium hydroxide	oral	LD ₅₀	rat	/	365 mg/kg	/	/

Additional information

The product is not classified as acutely toxic.

(b) Skin corrosion/irritation

For product

Species	Time	result	Method	Remark
/	/	Non corrosive.	OECD 431	/

Additional information

Causes skin irritation.

(c) Serious eye damage/irritation

For product

Species	Time	result	Method	Remark
/	/	Irritating to eyes.	/	/

Additional information

Causes serious eye irritation.

(d) Respiratory or skin sensitisation

No information.

Additional information

The product is not classified as sensitising.

(e) (Germ cell) mutagenicity**For product**

Type	Species	Time	result	Method	Remark
/	/	/	Based on the available data, the classification criteria are not met.	/	/
in-vitro mutagenicity	/	/	Negative.	/	Ames test
in-vivo mutagenicity	/	/	Negative.	/	Micronucleus assay

(f) Carcinogenicity**For product**

Exposure route	Type	Species	Time	value	result	Method	Remark
/	/	/	/	/	Based on the available data, the classification criteria are not met.	/	/

(g) Reproductive toxicity**For product**

Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
/	/	/	/	/	Based on the available data, the classification criteria are not met.	/	/

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

No information.

Additional information

STOT SE (single exposure): Not classified.

(i) STOT-repeated exposure

No information.

Additional information

STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

No information.

Additional information

Aspiration hazard: Not classified.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 Information on other hazards**Endocrine disrupting properties****For product**

The product does not contain substances with the potential for endocrine disorders in concentration ≥ 0.1 %.

Other information

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For product

Type	Exposure time	Species	organism	Method	Remark	value
LC ₅₀	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/	> 5000 mg/L
EC ₅₀	48 h	crustacea	<i>Daphnia magna</i>	/	/	> 1500 mg/L
EC ₅₀	72 h	algae	<i>Selenastrum capricornutum</i>	/	/	> 1000 mg/L
EC ₅₀	4 h	microorganisms	Bacteria	/	/	> 10000 mg/L

Chronic (long-term) toxicity

No information.

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

No information.

12.3 Bioaccumulative potential

Partition coefficient

No information.

Bioconcentration factor (BCF)

No information.

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

12.7 Other adverse effects

No information.

12.8 Additional information

For product

Product is not classified as dangerous for environment. Do not allow to reach ground water, water courses or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

DOT	IMDG	IATA
14.1 UN number or ID number		
Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.
14.2 UN proper shipping name		
Not given/not applicable	Not given/not applicable	Not given/not applicable
14.3 Transport hazard class(es)		
Not given/not applicable	Not given/not applicable	Not given/not applicable
14.4 Packing group		
Not given/not applicable	Not given/not applicable	Not given/not applicable
14.5 Environmental hazards		
NO	NO	NO
14.6 Special precautions for user		
	Limited quantities Not given/not applicable	
14.7 Maritime transport in bulk according to IMO instruments		
	Not given/not applicable	

SECTION 15: REGULATORY INFORMATION

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

29 CFR 1910.1200: Hazard Communication
ACGIH® Threshold Limit Values (TLVs®) and Biological Exposure Indices (BEIs®)
National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (RELs)
Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)
40 CFR Part 355 - Emergency Planning and Notification
49 CFR 100-185 - Hazardous Material Regulations
NFPA 704: Standard System for the Identification of the Hazards of Materials for Emergency Response
NFPA 30: Flammable and Combustible Liquids Code
Toxic Substances Control Act (TSCA)
Clean Air Act
Clean Water Act
Resource Conservation and Recovery Act (RCRA)
Occupational Safety and Health Administration (OSHA) General Industry Standards
European Union Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation
Canada's Workplace Hazardous Materials Information System (WHMIS)
Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Special instructions

All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical inventory.

U.S. federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standards, 29 CFR 1910.1200.

EPCRA Section 302: This material does not contain any extremely hazardous substances (40 CFR Part 355).

CERCLA: This material does not contain any substance which is regulated as a hazardous substances under the Comprehensive Environmental Response compensation and Liability Act (40 CFR Part 302).

CAA Section 112(r): This material does not contain any substances that are on the list of regulated substances (40 CFR Part 68).

EPCRA Section 313: This material does not contain any chemicals which are subject to the reporting requirements of the Act and 40 CFR Part 372.

U.S. State regulations:

California Proposition 65: This material does not contain any chemicals that are included on the California Proposition 65 list.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes

No information.

Key literature references and sources for data

No information.

Abbreviations and acronyms

CAS: Chemical Abstracts Service
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
CFR: Code of Federal Regulations
DOT: Department of Transportation
EPCRA: Emergency Planning and Community Right-to-Know Act
EPA: Environmental Protection Agency
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
HMIS: Hazardous Materials Identification System
HMR: Hazardous Materials Regulations
IARC: International Agency for Research on Cancer
LD50: Median Lethal Dose
LC50: Median Lethal Concentration
N/A: Not Applicable
NFPA: National Fire Protection Association
NIOSH: National Institute for Occupational Safety and Health
OEL: Occupational Exposure Limit
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
PPE: Personal Protective Equipment
RCRA: Resource Conservation and Recovery Act
STEL: Short-Term Exposure Limit
TLV: Threshold Limit Value
TSCA: Toxic Substances Control Act
TWA: Time-Weighted Average
UN: United Nations
VOC: Volatile Organic Compound
WHMIS: Workplace Hazardous Materials Information System

List of relevant H phrases

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.