

ALC 100

SYNTHETIC METALWORKING FLUID

MATERIAL SAFETY DATA SHEET

Due to regulation (EU) no. 2015/830

Version 1.7

DATE OF REVISION 12/10/2017

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

ALC 100

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

Water based metalworking lubricant

1.3 Details of the supplier of the safety data sheet

BBLubricants s.r.o.

Karla IV. 237

Uherský Brod, 688 01

Czech republic

IČO 02715121

T +420 725 812 101

1.4 Emergency telephone number

ECETOC AISBL: + 32 2 675 3600

Manufacturer: + 420 725 812 101

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not dangerous.

Signal word: NONE

Piktograms: --


Precautionary Statements: --

2.2 Other hazards

Not present.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component	Identification	CAS Number	% weight	Classification
Triethanolamine (TEA)	GHS07 	102-71-6	5%	H315, H318

3.2 Mixtures

None

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- 4.1.1 Eye Contact: Clean with flooding amount of water (min. 15 min). Remove contact lenses, if worn immediately. Seek medical attention.
- 4.1.2 Skin Contact: Product does not irritate skin. In case of irritation appearance wash with clean fresh water. If symptoms persist, seek medical attention.
- 4.1.3 Inhalation: Consult a doctor. Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult give oxygen.
- 4.1.4 Ingestion: Do not induce vomiting. Rinse mouth with water. Drink a lot of water in order to dilute. Do not give fluids if the victim is unconscious. Seek immediate medical help.
- 4.2 **Most important symptoms and effects, both acute and delayed**
Not known.
- 4.3 **Indication of any immediate medical attention and special treatment needed**
There are no specific recommendations.

SECTION 5: FIREFIGHTING MEASURES

- 5.1 **Extinguishing media**
Carbon dioxide, dry chemical foam, foam, powder and water mist. Unsuitable extinguish a full water jet.
- 5.2 **Special hazards arising from the substance or mixture**
The container may burst when exposed to high temperature and pressure.
- 5.3 **Advice for firefighters**
Product is not flammable or explosive.

SECTION 6: ACCIDENTAL RELEASE MEASURE

- 6.1 **Personal precautions, protective equipment and emergency procedures**
Avoid ingestion and eye contact. Danger of slipping on spilled product.
- 6.2 **Environmental precautions**
Dilute with water and remove material from the country.
- 6.3 **Methods and material for containment and cleaning up**
Stop product flow, if without risk.
Small spill: absorb the spilled product with non-combustible absorbent material.
Large leak: use nonflammable absorbent material, such as vermiculite, sand or earth to soak up the product and
Store material in containers for waste collection
- 6.4 **Reference to other sections**
For safe disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling**
Use with adequate ventilation. Avoid contact with eyes.
- 7.2 **Conditions for safe storage, including any incompatibilities**
Store in tightly closed original container in a cool, dry, well-ventilated place. Do not store outdoors where it could freeze.
- 7.3 **Specific end use(s)**
The mixture intended for metalworking operations.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **8.1. Control parameters**
Factor: triethanolamine (TEA)
Permissible Exposure Limit PEL: 5 mg / m³
The highest permissible concentration STEL: 10 mg / m³

Factor conversion from mg / m³ to ppm (25 ° C, 100 kPa): 0.164

8.2 Exposure controls

- 8.2.1 *Exposure controls industrial application:* Protective clothing specified by employee responsible for the safety and health of workers. Follow the laws of the State of the European Union where the product is being used.
- 8.2.2 *Respiratory protection:* No respiratory protection is required.
- 8.2.3 *Hands protection:* Wear protective gloves. (EN 374-1)
- 8.2.4 *Eyes protection:* Wear protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations. (EN 166)
- 8.2.5 *Skin protection:* Wear protective apron if the process could create sprinkling. (EN 340)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

pH	8.0 - 9.0
Melting/freezing point	< 0 °C
Boiling point	> 100 °C
In flammability point	N/A
Burning properties	N/A
Vapour Pressure	N/A
Density	930 - 1020 kg/m ³
Solubility in water	Soluble
Solubility in fat (solvent/fat)	N/A
Viscosity (SUS at 38 °C)	300 cSt
Vapour density	N/A
Evaporating rate	Similar to water

9.2 Other information

- 9.2.1 Appearance: Clear, white translucent liquid
- 9.2.2 Odour: Characteristic without irritating effect.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity or volatility risk is not associated with the product.

10.2 Chemical stability

The product is stable at room temperature in closed containers under normal conditions and handling.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

High temperatures, temperatures below PCIncompatible materials

10.5 Hazardous decomposition products

Incompatible with strong oxidising agents and strong acids. Avoid mixing with nitrites or nitrosating agents.

10.6 Hazardous Decomposition Products

No hazardous substances were found.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 11.1. Information on toxicological effects

Undetected no long-term effects when daily exposure

- 11.1.1 **Acute toxicity:** Not determined for the mixture; based on the properties of the individual components does not meet this classification
- 11.1.2 **Irritation:** Not determined for the mixture; based on the properties of individual components of the mixture does not meet this classification;
- 11.1.3 **Corrosion:** Not determined for the mixture; based on the properties of the individual components does not meet this classification
- 11.1.4 **Sensitization:** Not determined for the mixture; based on the properties of the individual components does not meet this classification
- 11.1.5 **Repeated dose toxicity:** Not determined for the mixture; based on the properties of the individual components does not meet this classification
- 11.1.6 **Carcinogenicity:** Not determined for the mixture; based on the properties of the individual components does not meet this classification
- 11.1.7 **Mutagenicity:** Not determined for the mixture; based on the properties of the individual components does not meet this classification
- 11.1.8 **Reproductive Toxicity:** Not determined for the mixture; based on the properties of the individual components does not meet this classification
- 11.1.9 **Toxicity to specific target organs:** single exposure: Based on the properties of individual components of the mixture does not meet this classification
- 11.1.10 **Toxicity for specific target organs:** repeated exposure: Not determined for the mixture; based on the properties of the individual components does not meet this classification
- 11.1.11 **Aspiration Hazard:** Not determined for the mixture; based on the properties of the individual components does not meet this classification

SECTION 12: ECOLOGICAL INFORMATION

The mixture is not classified as hazardous or toxic to the environment according to Directive 1999/45/EC. Specific environmental information are not available. Do not leave material freely in nature.

12.1 Toxicity

The product is biodegradable.

12.2 Persistence and degradability

Dissolvable in water.

12.3 Bioaccumulative potential

The product is Bio-accumulative

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

SECTION 13: SECTION 13: DISPOSAL CONSIDERATIONS

The mixture is not classified as hazardous or toxic to the environment according to Directive 1999/45/EC. Specific environmental information are not available. Do not leave material freely in nature.

13.1 Waste treatment methods

This product is not listed/classified as hazardous waster. Follow applicable federal, state and local laws and regulations. Contact licensed supplier
Recommended cleaning liquid: water

Cleaned empty packaging is recyclable.

13.1.1 Recommended waste code

12 01 99 (wastes not otherwise specified)

Contaminated packaging - buckets, cans - after thorough cleaning, dispose or recycle priority. incineration in approved facilities or save to a designated municipal waste facility. Contaminated packaging Dispose of as hazardous waste

13.1.2 Waste code category

15 01 10 * (soiled packaging) Packaging containing residues of hazardous substances or contaminated by.

15 01 02 (rinsed containers) Plastic Packaging

Empty containers will then be eliminated within the meaning of the Act. no. 185/2001 Coll, according cat. no. 15 01 10.

Empty containers can be landfilled and paneling, cut and recycled (must be in accordance with rules of operation authorized person) or burned (again only in designated facilities).

SECTION 14: SECTION 14: TRANSPORT INFORMATION

14.1	<u>UN number</u>	Not regulated
14.2	<u>UN proper shipping name</u>	Not regulated
14.3	<u>Transport hazard class(es)</u>	Not regulated
14.4	<u>Packing group</u>	Not regulated
14.5	<u>Environmental hazards</u>	No
14.6	<u>Special precautions for user</u>	Not regulated
14.7	<u>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</u>	Not regulated

SECTION 15: SECTION 15: REGULATORY INFORMATION

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

MSDS: Developed due to European Parliament and Council Regulation (EC), No. 1907/2006 (REACH), as amended, the Commission Regulation (EU) No. 2015/830.

Substances subject to authorization (Annex XIV of the REACH Regulation): no.

Regulation of the European Parliament and Council Regulation (EC) no. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction Chemicals (REACH), as amended

Regulation of the European Parliament and Council Regulation (EC) no. 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP), as amended

Act no. 350/2011 Coll., On chemical substances and mixtures, incl. implementing regulations

Act no. 258/2000 Coll., On public health protection, as amended

Act no. 262/2006 Coll., The Labour Code, as amended

Act no. 201/2012 Coll., On Air Protection

Act no. 254/2001 Coll., On waters, as amended

Government Regulation of Czech republic no. 361/2007 Coll., Laying down the conditions of health of workers at work

This product is not regulated by any transport regulation by legislation:

European Agreement concerning the International Carriage of Dangerous Goods (ADR), Regulations concerning the International Carriage of Dangerous Goods by Rail (RID), European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN), International Maritime Dangerous Goods (IMDG), Technical instructions for the Safe transport of Dangerous Goods (ICAO) (=air transport).

15.2 **Chemical safety assessment**

The substance is not chemically hazardous.

SECTION 16: SECTION 16: OTHER INFORMATION

The information and recommendations contained herein are based upon to our current knowledge and experience. However, with respect to the information contained herein does not convey any guarantees or warranty. The original safety data sheet serves as the main base, which is archived.

Regulatory requirements are subject to change and may vary depending on the point of use. It is the buyer's responsibility to ensure that activities in accordance with the applicable laws of the European Union. BBLubricants are not responsible for any injury, loss or damage, direct or indirect, arising from the use of or inability to use the product. The suitability and accuracy of the product must be tested before use. The mixture may be used only as specified in the technical documentation.

User assumes all risks and liabilities arising from use of the product.

Instructions for training

See the Labour Code Act no. 262/2006 Coll., As amended.

MSDS has been created and designed only for use with this product.

H315: Causes skin irritation.

H318: Causes serious eye damage.

Date of revision:

v1.3 adjusted value of viscosity.

v1.4 Update dexposure limits and regulation by the EU CLP 1272/2008.

v1.5 Tweaked H-phrases Classification according to the wording of the EU CLP 1272/2008.

v1.6 Updated to regulation EU. 2015/830.

Abbreviations:

CAS - Chemical Abstracts Service Organizations leads most comprehensive list of chemicals. Each substance registered in the CAS Registry is assigned a CAS Registry Number. CAS Registry Number (commonly referred to as CAS number) is widely used as a specific numerical identifier of chemical substances.

WWTP - wastewater

EINECS - European Inventory of Existing Commercial Chemical Substances IOELVs - Indicative

Occupational Exposure Limit values - recommended exposure limits

LC50 - median lethal concentration (concentration that causes the death of 50% of the test fish in the chosen period)

LD50 - median lethal dose LOEL - lowest dose observed-effect, means the lowest tested dose or exposure level at which the study was a statistically significant effect in the exposed population compared with an appropriate control group

CLP Regulation - Regulation of the European Parliament and Council Regulation (EC) no. 1272/200

REACH - Regulation of the European Parliament and Council Regulation (EC) no. 1907/2006

NPK-P - highest admissible concentration (mg.m-3)

PBT - Persistent bioaccumulative, toxic

Lab - permissible exposure limit for total concentration of dust - inhalable (mg.m-3)

Pelri - permissible exposure limit respirable fraction (mg.m-3)

PEL - Permissible Exposure Limit (mg.m-3) Permissible Exposure Limit chemicals or dust all-shifts time weighted average concentrations of gas, vapor or aerosol in the workplace atmosphere, which may be the current state of knowledge exposed worker in eight hours or shorter working week inning time without there had been even in life-long occupational health damage, undermining their ability to work and performance. Permissible exposure limit is set for the work that the average ventilation employees does not exceed 20 liters per minute per eight-hour shift.

TWA - Time Weighted Average (TWA) - the concentration of hazardous chemicals which worker can be exposed daily for eight hours (the normal working day) without any harmful effects on health.

vPvB - substance is highly persistent, very bioaccumulative.