

**ALTO 100 SYNTHETIC METALFORMING GREASE ON POLYMER BASIS**

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

**1.1 Product identifier**

Trade name : ALTO 100  
Product form : Mixture  
REACH no. : All the ingredients of this product in the scope of Regulation 1907/2006/EC (REACH), if not exempted, have been (pre-)registered.

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

**1.2.1 Relevant identified use**

Main use category : Industrial use

Title	Life cycle stage	Use descriptor
Lubricating agent	Industrial	ERC4, ERC7, PROC07, PROC10, PROC17, PROC20, PC24

See section 16 for full phrases of descriptors.

**1.2.2 Used advised against**

No additional info available.

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

Supplier	Manufacturer
<b>Pace1 Tools</b> Ruiskumestarinkatu 8 PORVOO 06100 Finland Tel. +358 207 871 730	<b>BBLubricants s.r.o.</b> Karla IV. 237 Uherský Brod, 688 01 Czech Republic T +420 725 812 101

**1.4 Emergency telephone number**

ECETOC AISBL: + 32 2 675 3600  
Supplier: + 358 207 871 730  
Manufacturer: + 420 725 812 101

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Not classified.

**2.2 Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]  
No labelling applicable

**2.3 Other hazards**

No additional information available.

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

**3.1 Substances**

Component	Identification	CAS number	% weight	Classification
Triethanolamin	No GHS	102-71-6	< = 5	H315, H318

See section 16 for full phrases of H-phrases.

### 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 / m<sup>3</sup>

The highest permissible concentration STEL: 10 mg / m<sup>3</sup>

Factor conversion from mg / m<sup>3</sup> 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

Physical state	:	Grease
Appearance (room temperature)	:	Grease
Molecular mass	:	1227,52 g/mol
Colour	:	Milky white/Yellow
Odour	:	Characteristic non-irritating odour. Sweet odour.
Odour threshold	:	No data available
pH	:	8.0 - 9.0
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	No supplementary information available
Freezing point	:	< 0 °C
Boiling point	:	> 100 °C
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available

Relative vapour density at 20 °C	:	No data available
Relative density	:	1,024 (15,6 °C)
Solubility (in water)	:	Dispersible in water.
Solubility (in fats)	:	Not soluble in fats.
Viscosity, kinematic	:	250 000 cSt (at 20 °C)
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

## 9.2 Other information

No data available.

## 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 hazardour 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.  
V1.7      Added descriptors  
            Added symbols of safe use

Descriptors of use:

ERC4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC7 - Use of functional fluid at industrial site

PROC07 - Industrial spraying

PROC10 - Roller application or brushing

PROC17 - Lubrication at high energy conditions in metal working operations

PROC20 - Use of functional fluids in small devices

PC24 - Lubricants, greases, release products

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.