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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

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

Lubricant

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

Company name:	BIZOL BITA Trading GmbH	
Street:	Martin-Buber-Str. 12	
Place:	D-14163 Berlin	
Telephone:	+49 (30) 804 869-0	Telefax: +49 (30) 804 869-2860
e-mail:	support@bizol.de	
Internet:	www.bizol.com	

**1.4. Emergency telephone number:**

Germany: +49 (30) 804 869-0 (08.00-17.00, Mo-Fr)  
In England and Wales: NHS Direct: 0845 4647 or 111 In Scotland: NHS 24 - 08454  
24 24 24 In Republic of Ireland: 01 809 2166

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:  
Hazardous to the aquatic environment: Aquatic Chronic 3  
Hazard Statements:  
Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.

**2.3. Other hazards**

Results of PBT and vPvB assessment: not applicable.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Mineral oil-based mixture. Mineral oil with DMSO extract &lt; 3 % as measured by IP 346.

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**Hazardous components**

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
64742-65-0	distillates (petroleum), solvent-dewaxed heavy paraffinic	1 - < 2.5 %
	265-169-7	
	649-474-00-6	
	01-2119471299-27	
	Asp. Tox. 1; H304	
	phosphonic acid, dibutyl ester, reaction products with 2-(octylthio)- ethanol	0.1 - < 0.3 %
	424-820-7	
	01-0000017126-75	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H312 H314 H318 H400 H410	
1213789-63-9	C16-18-(even numbered, saturated and unsaturated)-alkylamines	< 0.1 %
	627-034-4	
	01-2119473797-19	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H335 H373 H304 H400 H410	

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
	424-820-7	phosphonic acid, dibutyl ester, reaction products with 2-(octylthio)- ethanol	0.1 - < 0.3 %
		dermal: ATE = 1100 mg/kg M akut; H400: M=10 M chron.; H410: M=10	
1213789-63-9	627-034-4	C16-18-(even numbered, saturated and unsaturated)-alkylamines	< 0.1 %
		oral: ATE = 500 mg/kg M akut; H400: M=10 M chron.; H410: M=10	

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

When in doubt or if symptoms are observed, get medical advice. If unconscious but breathing normally, place in recovery position and seek medical advice. Remove contaminated, saturated clothing immediately.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap.

**After contact with eyes**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Let water be drunken in little sips (dilution effect). Call a physician immediately. Do NOT induce vomiting.

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

When in doubt or if symptoms are observed, get medical advice.

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

No information available.

**SECTION 5: Firefighting measures**
**5.1. Extinguishing media**

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### Suitable extinguishing media

alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO<sub>2</sub>).

### Unsuitable extinguishing media

Full water jet.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Do not inhale explosion and combustion gases.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Do not allow to enter into soil/subsoil.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### General measures

Protective measures: see section 7 + 8.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Clean contaminated articles and floor according to the environmental legislation.

### 6.3. Methods and material for containment and cleaning up

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Protective measures: see section 7 + 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Use personal protection equipment. Do not eat, drink or smoke when using this product. Provide fresh air. Handle and open container with care. Conditions to avoid: generation/formation of aerosols.

#### Advice on protection against fire and explosion

No special measures are necessary.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Protect against: Frost. Keep away from heat. Protect from direct sunlight. Keep container tightly closed in a cool, well-ventilated place.

### 7.3. Specific end use(s)

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### PNEC values

CAS No	Substance	
	Environmental compartment	Value
	phosphonic acid, dibutyl ester, reaction products with 2-(octylthio)- ethanol	
	Freshwater	0,036 mg/l
	Freshwater sediment	0,128 mg/kg
	Soil	0,104 mg/kg

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### 8.2. Exposure controls

#### **Appropriate engineering controls**

See section 7. No additional measures necessary.

#### **Protective and hygiene measures**

When using do not eat, drink, smoke, sniff.

#### **Eye/face protection**

Eye glasses with side protection.

#### **Hand protection**

Wear suitable gloves. Recommended glove articles: EN ISO 374. Suitable material: NBR (Nitrile rubber). Breakthrough time: > 480 min (Thickness of the glove material: 0.4 mm). Breakthrough times and swelling properties of the material must be taken into consideration. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

#### **Skin protection**

Protective clothing.

#### **Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required. When splashes or fine mist form, a permitted breathing apparatus suitable for these purposes must be used. Suitable respiratory protection apparatus: Filtering Half-face mask (DIN EN 149), e.g. FFA P / FFP3.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	red
Odour:	characteristic

	Test method
pH-Value:	not applicable
<b>Changes in the physical state</b>	
Melting point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Pour point:	<= -45 °C ASTM D 7346
Flash point:	>= 200 °C EN ISO 2592
Lower explosion limits:	0,6 vol. %
Upper explosion limits:	6,5 vol. %
Auto-ignition temperature:	not determined
Decomposition temperature:	No information available.
Vapour pressure: (at 20 °C)	< 0,1 hPa
Density (at 15 °C):	0,85 g/cm <sup>3</sup> DIN EN ISO 12185
Water solubility:	insoluble
Partition coefficient n-octanol/water:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic: (at 40 °C)	38 mm <sup>2</sup> /s ASTM D 7042
Flow time:	not determined
Relative vapour density:	not determined

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Evaporation rate: not determined

### 9.2. Other information

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

No information available.

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

Heat.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No information available.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	phosphonic acid, dibutyl ester, reaction products with 2-(octylthio)- ethanol				
	dermal	ATE 1100 mg/kg			
1213789-63-9	C16-18-(even numbered, saturated and unsaturated)-alkylamines				
	oral	ATE 500 mg/kg			

#### Irritation and corrosivity

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

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

### 11.2. Information on other hazards

#### Other information

Keeping to the general worker's protection rules and the industrial hygienics, there is no risk in handling this product through the personnel.

## SECTION 12: Ecological information

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**12.1. Toxicity**

There are no data available on the mixture itself.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
	phosphonic acid, dibutyl ester, reaction products with 2-(octylthio)- ethanol					
	Acute fish toxicity	LC50 1,5 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA	
	Acute algae toxicity	ErC50 mg/l 0,31	72 h	Pseudokirchneriella subcapitata	ECHA	
	Acute crustacea toxicity	EC50 mg/l 0,09	48 h	Daphnia magna (Big water flea)	ECHA	
	Crustacea toxicity	NOEC mg/l 0,14	21 d	ECHA		
1213789-63-9	C16-18-(even numbered, saturated and unsaturated)-alkylamines					
	Acute fish toxicity	LC50 0,11 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute crustacea toxicity	EC50 mg/l 0,011	48 h	Daphnia pulex (water flea)		
	Crustacea toxicity	NOEC mg/l 0,013	21 d	Daphnia pulex (water flea)		

**12.2. Persistence and degradability**

There are no data available on the mixture itself.

**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

**BCF**

CAS No	Chemical name	BCF	Species	Source
1213789-63-9	C16-18-(even numbered, saturated and unsaturated)-alkylamines	500		

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

No data available

**12.7. Other adverse effects**

No data available

**SECTION 13: Disposal considerations**
**13.1. Waste treatment methods**
**Disposal recommendations**

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

**List of Wastes Code - residues/unused products**

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

**Contaminated packaging**

Non-contaminated packages may be recycled. Consult the appropriate local waste disposal expert about waste disposal.

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**SECTION 14: Transport information****Land transport (ADR/RID)**

- 14.1. UN number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

- 14.1. UN number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.  
Marine pollutant: NO

**Air transport (ICAO-TI/IATA-DGR)**

- 14.1. UN number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No data available

**14.7. Maritime transport in bulk according to IMO instruments**

No data available

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**Restrictions on use (REACH, annex XVII):  
Entry 3

2010/75/EU (VOC): 0 %  
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

**Abbreviations and acronyms**

ADR: Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations concerning the International Carriage of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
CAS: Chemical Abstracts Service (a division of the American Chemical Society)

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DNEL/DMEL: Derived No-Effect Level / Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
WEL (UK): Workplace Exposure Limits  
TWA (EC): Time-Weighted Average  
STEL (EC): Short Term Exposure Limit  
ATE: Acute Toxicity Estimate  
LD50: Lethal Dose, 50% (median lethal dose)  
LC50: Lethal Concentration, 50% (median lethal concentration)  
EC50: half maximal Effective Concentration  
ErC50: EC50 in terms of reduction of growth rate  
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

**Relevant H and EUH statements (number and full text)**

H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

**Further Information**

Safety Data Sheet according to COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*