

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

### 1.1 Product identifier

Trade name : Z261

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

Use of the Sub-  
stance/Mixture : High speed lubrication spray

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

Company : HASCO Hasenclever GmbH+Co KG  
Römerweg 4  
D-58513 Lüdenscheid  
Telephone : +49 (0) 23 51 - 95 70  
Telefax : +49 (0) 23 51 - 95 72 37  
Contact person product safety  
Telephone : +49(0)2351 9570  
E-mail address : info@hasco.com

### 1.4 Emergency telephone number

Emergency telephone number : +49(0)2351-9570 (MO-FR 8-16 H)

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1 H222: Extremely flammable aerosol.  
H229: Pressurised container: May burst if heated.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.

Supplemental Hazard  
Statements : EUH066 Repeated exposure may cause skin dryness or  
cracking.

Precautionary statements : **Prevention:**

- P260 Do not breathe spray.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P251 Do not pierce or burn, even after use.  
 P211 Do not spray on an open flame or other ignition source.

**Storage:**

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**2.3 Other hazards**

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.

The information required is contained in this Material Safety Data Sheet.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

Chemical nature : Preparation of metal soap, extreme pressure additives and bonding agent dissolved in hydrocarbons

**Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
Hydrocarbons, C10 - C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics	Not Assigned 918-481-9 01-2119457273-39	Asp. Tox. 1; H304 Note N	>= 50 - < 65
Hydrocarbons, C11 - C14, isoalkanes, cyclics, < 2 % aromatics	90622-58-5 927-285-2 01-2119480162-45	Asp. Tox. 1; H304	>= 10 - < 25
Substances with a workplace exposure limit :			
1-Methoxy-2-propanol	107-98-2 203-539-1 01-2119457435-35	Flam. Liq. 3; H226 STOT SE 3; H336	>= 2.5 - < 10

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

General advice : Call a physician if symptoms occur.

If inhaled : Provide fresh air.  
 Keep patient warm and at rest.  
 If symptoms persist, call a physician.

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- In case of skin contact : Take off immediately all contaminated clothing.  
Wash skin thoroughly with soap and water or use recognized skin cleanser.  
Do NOT use solvents or thinners.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : Call a physician immediately.  
Keep at rest.  
Do NOT induce vomiting.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.
- Risks : No information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet

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

- Specific hazards during fire-fighting : Combustion may cause:  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide

#### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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### SECTION 6: Accidental release measures

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

- Personal precautions : Provide sufficient air exchange and/or exhaust in work rooms.  
Remove all sources of ignition.  
Do not breathe vapour.

Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Inform the relevant authorities if it enters sewers, aquatic environment or soil.

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

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See chapter  
8  
and  
13

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours or spray mist. When using do not eat, drink or smoke. For personal protection see section 8. Take precautionary measures against static discharges. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep away from children.

Advice on protection against fire and explosion : Vapours are heavier than air and may spread along floors.

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

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards. Follow the water regulations.

Further information on storage conditions : Keep only in the original container in a cool, well-ventilated place. Keep away from heat. Keep away from sources of ignition - No smoking.

Advice on common storage : Incompatible with oxidizing agents.

### 7.3 Specific end use(s)

Specific use(s) : High speed lubrication spray

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
1-Methoxy-2-propanol	107-98-2	TWA	100 ppm 375 mg/m <sup>3</sup>	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	150 ppm 568 mg/m <sup>3</sup>	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	100 ppm 375 mg/m <sup>3</sup>	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	150 ppm 560 mg/m <sup>3</sup>	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
1-Methoxy-2-propanol	Workers	Inhalation	Long-term systemic effects	369 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	553.5 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	50.6 mg/kg bw/day

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
1-Methoxy-2-propanol	Fresh water	10 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	41.6 mg/kg
	Marine sediment	4.17 mg/kg
	Soil	2.47 mg/kg

### 8.2 Exposure controls

#### Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

#### Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed.

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- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Do not breathe gas/fumes/vapour/spray.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Protective measures : Handle in accordance with good industrial hygiene and safety practice.  
Follow the skin protection plan.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance : aerosol
- Colour : yellow
- Odour : mild
- Odour Threshold : No data available
- pH : Not applicable
- Melting point/freezing point : No data available
- Boiling point/boiling range : No data available
- Flash point : > 21 °C
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Upper explosion limit : Upper flammability limit  
7 %(V)
- Lower explosion limit : lower flammability limit  
0.6 %(V)
- Vapour pressure : 5,750 hPa (20 °C)  
Information taken from reference works and the literature.
- Relative vapour density : No data available
- Relative density : No data available
- Density : 0.79 g/cm<sup>3</sup> (20 °C)  
Method: DIN 51757
- Solubility(ies)  
Water solubility : 50 g/l
- Solubility in other solvents : No data available

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Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	240 °C
Decomposition temperature	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Flow time	:	No data available
Explosive properties	:	Vapours may form explosive mixture with air.
Oxidizing properties	:	No data available

## 9.2 Other information

Other physico-chemical properties: This information is not available/not determined.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as:

Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Smoke

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Product:

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

### Acute toxicity

#### Components:

#### **Hydrocarbons, C10 - C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402

#### **1-Methoxy-2-propanol:**

Acute oral toxicity : LD50 (Rat): 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 6 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rat): 13,500 mg/kg

### Skin corrosion/irritation

#### Product:

Remarks: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.  
May cause eye and skin irritation.

### Serious eye damage/eye irritation

#### Product:

Remarks: The liquid splashed in the eyes may cause irritation and reversible damage.

### Respiratory or skin sensitisation

#### Product:

Remarks: This information is not available.

### Germ cell mutagenicity

#### Product:

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

### Carcinogenicity

#### Product:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### Reproductive toxicity

#### Product:

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



**STOT - single exposure**

**Product:**

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

**STOT - repeated exposure**

**Product:**

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

**Aspiration toxicity**

**Product:**

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

**Further information**

**Product:**

Remarks: Health injuries are not known or expected under normal use.

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Product:**

Ecotoxicology studies for the product are not available.

**Components:**

**Hydrocarbons, C10 - C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics:**

Toxicity to fish : (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : (Daphnia magna (Water flea)): > 1,000 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 1,000 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

**12.2 Persistence and degradability**

**Product:**

Biodegradability : Remarks: No data available

**12.3 Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: No data available

#### 12.4 Mobility in soil

**Product:**

Mobility : Remarks: No data available

#### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : 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..

#### 12.6 Other adverse effects

**Product:**

Additional ecological information : Do not flush into surface water or sanitary sewer system.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.  
Do not let product enter drains.  
Do not dispose of with domestic refuse.

Contaminated packaging : Dispose of in accordance with local regulations.

Waste Code : 160504 : gases in pressure containers (including halons) containing dangerous substances

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### SECTION 14: Transport information

#### 14.1 UN number

ADR : UN 1950  
RID : UN 1950  
IMDG : UN 1950  
IATA : UN 1950

#### 14.2 UN proper shipping name

ADR : AEROSOLS  
RID : AEROSOLS  
IMDG : AEROSOLS  
IATA : Aerosols, flammable

#### 14.3 Transport hazard class(es)

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**ADR** : 2  
**RID** : 2  
**IMDG** : 2.1  
**IATA** : 2.1

#### 14.4 Packing group

##### **ADR**

Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1  
Tunnel restriction code : (D)

##### **RID**

Packing group : Not assigned by regulation  
Classification Code : 5F  
Hazard Identification Number : 23  
Labels : 2.1

##### **IMDG**

Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U  
Remarks : "IMDG-Code segregation group not applicable"., Protected from sources of heat., For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters., For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

##### **IATA (Cargo)**

Packing instruction (cargo aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable gas

##### **IATA (Passenger)**

Packing instruction (passenger aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable gas

#### 14.5 Environmental hazards

##### **ADR**

Environmentally hazardous : no

##### **RID**

Environmentally hazardous : no

##### **IMDG**

Marine pollutant : no

#### 14.6 Special precautions for user

Refer to protective measures listed in sections 7 and 8.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.  
Regional or national implementations of GHS may not implement all hazard classes and categories.

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

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### SECTION 16: Other information

#### Full text of H-Statements

H226 : Flammable liquid and vapour.  
H304 : May be fatal if swallowed and enters airways.  
H336 : May cause drowsiness or dizziness.

#### Full text of other abbreviations

Asp. Tox. : Aspiration hazard  
Flam. Liq. : Flammable liquids  
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No

1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

Other information : The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.  
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

GB / EN