

# Page 1/7 Safety Data Sheet according to 1907/2006/EC, Article 31 and 453/2010/EC Printing date 09.07.2015 Version number 3 Revision: 09.07.2015 1 Identification of the substance/mixture and of the company/undertaking Product identifier · Trade name: Coolant cutting fluid KSS-Top · Article number: 26510-01 • 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. • Application of the substance / the preparation: For industrial use only Screw cutting fluid Metal working fluid · 1.3 Details of the supplier of the safety data sheet Manufacturer / Supplier: Orbitalum Tools GmbH Josef-Schüttler-Straße 17 DE-78224 Singen Germany Tel. +49 (0) 77 31 - 792 0 Fax +49 (0) 77 31 - 792 500 tools@orbitalum.com www.orbitalum.com · Further information obtainable from: lubrication@orbitalum.com · 1.4 Emergency telephone number: Germany: Giftinformationszentrum Berlin Tel.: +49 (0)30-19240 2 Hazards identification · 2.1 Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008 Acute Tox. 4 H302 Harmful if swallowed. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms GHS07 GHS08 · Signal word Warning Hazard-determining components of labelling: ethanediol · Hazard statements H302 Harmful if swallowed. H373 May cause damage to organs through prolonged or repeated exposure.

- Precautionary statements
- Do not breathe dust/fume/gas/mist/vapours/spray. P260
- Wash thoroughly after handling. P264
- Do not eat, drink or smoke when using this product. P270
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- Dispose of contents/container in accordance with local/regional/national/international P501 regulations.

(Contd. on page 2)

GB



according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 09.07.2015

Version number 3

Revision: 09.07.2015

(Contd. of page 1)

### Trade name: Coolant cutting fluid KSS-Top

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

# **3** Composition/information on ingredients

### · 3.2 Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

### · Declarable, or hazardous components:

CAS-no.

EINECS: 203-473-3 ethanediol Reg.nr.: 01-2119456816-28-0000 STOT RE 2, H373; Acute Tox. 4, H302

>20-<30%

### · Additional information:

For the wording of the listed risk phrases refer to section 16.

Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/ Confidential.

# 4 First aid measures

### · 4.1 Description of first aid measures

- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

# **5** Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

# 6 Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Not required.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

(Contd. on page 3)



according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 09.07.2015

Version number 3

Revision: 09.07.2015

## Trade name: Coolant cutting fluid KSS-Top

(Contd. of page 2)

See Section 13 for disposal information.

# 7 Handling and storage

· 7.1 Precautions for safe handling

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

Observe the general safety regulations when handling chemicals.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle. • Information about storage in one common storage facility:

Do not store together with oxidising and acidic materials. Store away from oxidising agents.

• Further information about storage conditions: Protect from heat and direct sunlight. Protect from frost.

Optimal storage temperature between -20 °C and +40 °C.

- Duration of storage: In closed original container, at least 36 months.
- · 7.3 Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

### · 8.1 Control parameters

Ingredients with limit values at the workplace:

General indication value for metalworking fluids (without obligation): 10 mg/m<sup>3</sup>.

## Propylene glycol (>20-<30%)

WEL Long-term value: 474\* 10\*\* mg/m<sup>3</sup>, 150\* ppm \*total vapour and particulates \*\*particulates

### ethanediol (>20-<30%)

WEL Short-term value: 104\*\* mg/m<sup>3</sup>, 40\*\* ppm Long-term value: 10\* 52\*\* mg/m<sup>3</sup>, 20\*\* ppm Sk \*particulate \*\*vapour

• Additional information: The lists valid during the making were used as basis.

### · 8.2 Exposure controls

· Personal protective equipment:

- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · **Respiratory protection:** Not required.
- Material of gloves

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the resultant standard EN 374.

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 break through, among others, depending on material density and the type of glove and therefore must be determined in each individual case.

Gloves must be inspected prior to use. Replace when worn!

Impervious gloves: nitrile rubber, minimum thickness of 0.3 mm.

### · Penetration time of glove material

The exact breaktrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 4)



according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 09.07.2015

Version number 3

Revision: 09.07.2015

# Trade name: Coolant cutting fluid KSS-Top

(Contd. of page 3)

- Eye protection: Eye protector with side protection (framed eyeglasses) EN 166.
- Body protection: Protective work clothing

9.1 Information on basic physic General Information	cal and chemical properties
Appearance: Form:	Fluid
Colour:	Colourless
Odour:	Weak, characteristic
Change in condition:	
Melting point/Melting range:	Not applicable
Boiling point/Boiling range:	> 100 °C (DIN 51751 / ASTM D86)
Drip point: Pour point:	Not applicable < 0 °C (ISO 3016 / ASTM D97)
•	
Flash point:	> 100 °C (ISO 2592 / ASTM D92)
Ignition temperature:	> 300 °C (DIN 51794 / ASTM E659)
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits (@1013 mbar)	:
Lower:	2.6 Vol %
Upper:	53.0 Vol %
Vapour pressure at 20 °C:	23 hPa
Density at 20 °C:	1.00 g/cm <sup>3</sup> (DIN 51757 / ASTM D1217)
Solubility in / Miscibility with	
water:	Fully miscible.
Viscosity:	
Kinematic:	Not determined.
9.2 Other information:	safety relevant data, which has to be considered as product specifications.

# 10 Stability and reactivity

- · 10.1 Reactivity None known if used as directed.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions Reacts with strong acids and oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

(Contd. on page 5)

GB



according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 09.07.2015

Version number 3

Revision: 09.07.2015

## Trade name: Coolant cutting fluid KSS-Top

(Contd. of page 4)

11 Toxicological information         • 11.1 Information on toxicological effects         • Acute toxicity         Harmful if swallowed.         • LD/LC50 values relevant for classification:         > 2000 - < 5000 mg / kg (oral, rat)         > 5,100 mg/m³ 4h (inhalation, rat)         ATE (Acute Toxicity Estimates)         Oral       LD50         Oral       LD50         Db 7692 mg/kg (rat)         ethanediol         Oral       LD50         Dermal       LD50         9530 mg/kg (rat)         Primary irritant effect:         Skin corrosion/irritation Based on available data, the classification criteria are not met.         Serious eye damage/irritation Based on available data, the classification criteria are not met.         Respiratory or skin sensitisation Based on available data, the classification criteria are not met.         Germ cell mutagenicity         Based on available data, the classification criteria are not met.         • Carcinogenicity         Based on available data, the classification criteria are not met.         • Reproductive toxicity         Based on available data, the classification criteria are not met.         • StoT-single exposure         Based on available data, the classification criteria are not met.         • StoT-single exposure	
<ul> <li>Acute toxicity Harmful if swallowed.</li> <li>LD/LC50 values relevant for classification:</li> <li>2000 - &lt; 5000 mg / kg (oral, rat)</li> <li>5,100 mg/m<sup>3</sup> 4h (inhalation, rat)</li> <li>ATE (Acute Toxicity Estimates)</li> <li>Oral LD50 7692 mg/kg (rat)</li> <li>ethanediol</li> <li>Oral LD50 9530 mg/kg (rat)</li> <li>Primary irritant effect:</li> <li>Skin corrosion/irritation Based on available data, the classification criteria are not met.</li> <li>Serious eye damage/irritation Based on available data, the classification criteria are not met.</li> <li>Germ cell mutagenicity Based on available data, the classification criteria are not met.</li> <li>Carcinogenicity Based on available data, the classification criteria are not met.</li> <li>Storosenicity Based on available data, the classification criteria are not met.</li> <li>Storosenicity Based on available data, the classification criteria are not met.</li> <li>Storosenicity Based on available data, the classification criteria are not met.</li> <li>Storosenicity Based on available data, the classification criteria are not met.</li> <li>Storosenicity Based on available data, the classification criteria are not met.</li> <li>Storosenicity Based on available data, the classification criteria are not met.</li> <li>Storosenicity Based on available data, the classification criteria are not met.</li> <li>Storosenicity Based on available data, the classification criteria are not met.</li> <li>Storosenicity Based on available data, the classification criteria are not met.</li> <li>Storosenicity Based on available data, the classification criteria are not met.</li> <li>Storosenicity Based on available data, the classification criteria are not met.</li> <li>Storosenicity Based on available data, the classification criteria are not met.</li> <li>Storosenicity Based on available data, the classification criteria are not met.</li> <li>Storosenicity Based on available data, the classification criteria are not met.</li> <li>Storosenicity Based on available data, the c</li></ul>	11 Toxicological information
Harmful if swallowed.         LD/LC50 values relevant for classification:         > 2000 - < 5000 mg / kg (oral, rat)         > 5,100 mg/m³ 4h (inhalation, rat)         ATE (Acute Toxicity Estimates)         Oral       LD50         Point       LD50         7692 mg/kg (rat)         ethanediol         Oral       LD50         9530 mg/kg (rat)         Dermal       LD50         9530 mg/kg (rabbit)         Primary irritant effect:         Skin corrosion/irritation Based on available data, the classification criteria are not met.         Serious eye damage/irritation Based on available data, the classification criteria are not met.         Germ cell mutagenicity         Based on available data, the classification criteria are not met.         Carcinogenicity         Based on available data, the classification criteria are not met.         Reproductive toxicity         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         May cause damage to organs through prolonged or repeated exposure.	· 11.1 Information on toxicological effects
<ul> <li>LD/LC50 values relevant for classification:</li> <li>2000 - &lt; 5000 mg / kg (oral, rat)</li> <li>5,100 mg/m³ 4h (inhalation, rat)</li> <li>ATE (Acute Toxicity Estimates)</li> <li>Oral LD50 7692 mg/kg (rat)</li> <li>ethanediol</li> <li>Oral LD50 9530 mg/kg (rat)</li> <li>permal LD50 9530 mg/kg (rab)</li> <li>Primary irritant effect:</li> <li>Skin corrosion/irritation Based on available data, the classification criteria are not met.</li> <li>Serious eye damage/irritation Based on available data, the classification criteria are not met.</li> <li>Germ cell mutagenicity</li> <li>Based on available data, the classification criteria are not met.</li> <li>Carcinogenicity</li> <li>Based on available data, the classification criteria are not met.</li> <li>Reproductive toxicity</li> <li>Based on available data, the classification criteria are not met.</li> <li>STOT-single exposure</li> <li>Based on available data, the classification criteria are not met.</li> <li>STOT-repeated exposure</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> </ul>	
<ul> <li>&gt; 2000 - &lt; 5000 mg / kg (oral, rat)</li> <li>&gt; 5,100 mg/m³ 4h (inhalation, rat)</li> <li>ATE (Acute Toxicity Estimates)</li> <li>Oral LD50 7692 mg/kg (rat)</li> <li>ethanediol</li> <li>Oral LD50 5840 mg/kg (rat)</li> <li>Dermal LD50 9530 mg/kg (rabbit)</li> <li>Primary irritant effect:</li> <li>Skin corrosion/irritation Based on available data, the classification criteria are not met.</li> <li>Serious eye damage/irritation Based on available data, the classification criteria are not met.</li> <li>Germ cell mutagenicity</li> <li>Based on available data, the classification criteria are not met.</li> <li>Carcinogenicity</li> <li>Based on available data, the classification criteria are not met.</li> <li>StoT-single exposure</li> <li>Based on available data, the classification criteria are not met.</li> <li>STOT-repeated exposure</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> </ul>	
<ul> <li>&gt; 5,100 mg/m<sup>3</sup> 4h (inhalation, rat)</li> <li>ATE (Acute Toxicity Estimates)</li> <li>Oral LD50 7692 mg/kg (rat)</li> <li>ethanediol</li> <li>Oral LD50 5840 mg/kg (rat)</li> <li>Dermal LD50 9530 mg/kg (rabbit)</li> <li>Primary irritant effect:</li> <li>Skin corrosion/irritation Based on available data, the classification criteria are not met.</li> <li>Serious eye damage/irritation Based on available data, the classification criteria are not met.</li> <li>Germ cell mutagenicity</li> <li>Based on available data, the classification criteria are not met.</li> <li>Carcinogenicity</li> <li>Based on available data, the classification criteria are not met.</li> <li>Reproductive toxicity</li> <li>Based on available data, the classification criteria are not met.</li> <li>STOT-single exposure</li> <li>Based on available data, the classification criteria are not met.</li> <li>STOT-repeated exposure</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> </ul>	
ATE (Acute Toxicity Estimates)         Oral       LD50       7692 mg/kg (rat)         ethanediol         Oral       LD50       5840 mg/kg (rat)         Dermal       LD50       9530 mg/kg (rabbit)         Primary irritant effect:       Skin corrosion/irritation Based on available data, the classification criteria are not met.         Serious eye damage/irritation Based on available data, the classification criteria are not met.         Respiratory or skin sensitisation Based on available data, the classification criteria are not met.         Germ cell mutagenicity         Based on available data, the classification criteria are not met.         Carcinogenicity         Based on available data, the classification criteria are not met.         Reproductive toxicity         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         May cause damage to organs through prolonged or repeated exposure.	
Oral       LD50       7692 mg/kg (rat)         ethanediol          Oral       LD50       5840 mg/kg (rat)         Dermal       LD50       9530 mg/kg (rabbit)         Primary irritant effect:       Skin corrosion/irritation Based on available data, the classification criteria are not met.         Serious eye damage/irritation Based on available data, the classification criteria are not met.         Respiratory or skin sensitisation Based on available data, the classification criteria are not met.         Germ cell mutagenicity         Based on available data, the classification criteria are not met.         Carcinogenicity         Based on available data, the classification criteria are not met.         Reproductive toxicity         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         May cause damage to organs through prolonged or repeated exposure.	
Oral       LD50       5840 mg/kg (rat)         Dermal       LD50       9530 mg/kg (rabbit)         • Primary irritant effect:       Skin corrosion/irritation Based on available data, the classification criteria are not met.         • Serious eye damage/irritation Based on available data, the classification criteria are not met.         • Respiratory or skin sensitisation Based on available data, the classification criteria are not met.         • Germ cell mutagenicity         Based on available data, the classification criteria are not met.         • Carcinogenicity         Based on available data, the classification criteria are not met.         • Reproductive toxicity         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         May cause damage to organs through prolonged or repeated exposure.	
Dermal       LD50       9530 mg/kg (rabbit)         Primary irritant effect:       Skin corrosion/irritation Based on available data, the classification criteria are not met.         Serious eye damage/irritation Based on available data, the classification criteria are not met.         Respiratory or skin sensitisation Based on available data, the classification criteria are not met.         Germ cell mutagenicity         Based on available data, the classification criteria are not met.         Carcinogenicity         Based on available data, the classification criteria are not met.         Reproductive toxicity         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         May cause damage to organs through prolonged or repeated exposure.	ethanediol
Dermal       LD50       9530 mg/kg (rabbit)         Primary irritant effect:       Skin corrosion/irritation Based on available data, the classification criteria are not met.         Serious eye damage/irritation Based on available data, the classification criteria are not met.         Respiratory or skin sensitisation Based on available data, the classification criteria are not met.         Germ cell mutagenicity         Based on available data, the classification criteria are not met.         Carcinogenicity         Based on available data, the classification criteria are not met.         Reproductive toxicity         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         May cause damage to organs through prolonged or repeated exposure.	Oral LD50 5840 mg/kg (rat)
<ul> <li>Primary irritant effect:</li> <li>Skin corrosion/irritation Based on available data, the classification criteria are not met.</li> <li>Serious eye damage/irritation Based on available data, the classification criteria are not met.</li> <li>Respiratory or skin sensitisation Based on available data, the classification criteria are not met.</li> <li>Germ cell mutagenicity Based on available data, the classification criteria are not met.</li> <li>Carcinogenicity Based on available data, the classification criteria are not met.</li> <li>Reproductive toxicity Based on available data, the classification criteria are not met.</li> <li>STOT-single exposure Based on available data, the classification criteria are not met.</li> <li>STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.</li> </ul>	
<ul> <li>Skin corrosion/irritation Based on available data, the classification criteria are not met.</li> <li>Serious eye damage/irritation Based on available data, the classification criteria are not met.</li> <li>Respiratory or skin sensitisation Based on available data, the classification criteria are not met.</li> <li>Germ cell mutagenicity Based on available data, the classification criteria are not met.</li> <li>Carcinogenicity Based on available data, the classification criteria are not met.</li> <li>Reproductive toxicity Based on available data, the classification criteria are not met.</li> <li>STOT-single exposure Based on available data, the classification criteria are not met.</li> <li>STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.</li> </ul>	
Based on available data, the classification criteria are not met.	<ul> <li>Skin corrosion/irritation Based on available data, the classification criteria are not met.</li> <li>Serious eye damage/irritation Based on available data, the classification criteria are not met.</li> <li>Respiratory or skin sensitisation Based on available data, the classification criteria are not met.</li> <li>Germ cell mutagenicity Based on available data, the classification criteria are not met.</li> <li>Carcinogenicity Based on available data, the classification criteria are not met.</li> <li>Reproductive toxicity Based on available data, the classification criteria are not met.</li> <li>STOT-single exposure Based on available data, the classification criteria are not met.</li> <li>STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.</li> <li>Aspiration hazard</li> </ul>
	12 Ecological information
12 Ecological information	
· 12.1 Toxicity	
<ul> <li>• 12.1 Toxicity</li> <li>• Aquatic toxicity: No further relevant information available.</li> </ul>	· Other information:
<ul> <li>• 12.1 Toxicity</li> <li>• Aquatic toxicity: No further relevant information available.</li> <li>• 12.2 Persistence and degradability Easily biodegradable</li> </ul>	Biodegradation according OECD 301 B; after 10 days: > 60%.
<ul> <li>• 12.1 Toxicity</li> <li>• Aquatic toxicity: No further relevant information available.</li> <li>• 12.2 Persistence and degradability Easily biodegradable</li> <li>• Other information: Biodegradation according OECD 301 B; after 10 days: &gt; 60%.</li> </ul>	The product is easily biodegradable according to the OECD 301 and 302 guidelines.
<ul> <li>• 12.1 Toxicity</li> <li>• Aquatic toxicity: No further relevant information available.</li> <li>• 12.2 Persistence and degradability Easily biodegradable</li> <li>• Other information: Biodegradation according OECD 301 B; after 10 days: &gt; 60%. The product is easily biodegradable according to the OECD 301 and 302 guidelines.</li> </ul>	
<ul> <li>12.1 Toxicity</li> <li>Aquatic toxicity: No further relevant information available.</li> <li>12.2 Persistence and degradability Easily biodegradable</li> <li>Other information: Biodegradation according OECD 301 B; after 10 days: &gt; 60%. The product is easily biodegradable according to the OECD 301 and 302 guidelines.</li> <li>12.3 Bioaccumulative potential No further relevant information available.</li> </ul>	•
<ul> <li>12.1 Toxicity</li> <li>Aquatic toxicity: No further relevant information available.</li> <li>12.2 Persistence and degradability Easily biodegradable</li> <li>Other information: Biodegradation according OECD 301 B; after 10 days: &gt; 60%. The product is easily biodegradable according to the OECD 301 and 302 guidelines.</li> <li>12.3 Bioaccumulative potential No further relevant information available.</li> <li>12.4 Mobility in soil No further relevant information available.</li> </ul>	
<ul> <li>Aquatic toxicity: No further relevant information available.</li> <li>12.2 Persistence and degradability Easily biodegradable</li> <li>Other information: Biodegradation according OECD 301 B; after 10 days: &gt; 60%. The product is easily biodegradable according to the OECD 301 and 302 guidelines.</li> <li>12.3 Bioaccumulative potential No further relevant information available.</li> <li>12.4 Mobility in soil No further relevant information available.</li> <li>Additional ecological information:</li> </ul>	
<ul> <li>12.1 Toxicity</li> <li>Aquatic toxicity: No further relevant information available.</li> <li>12.2 Persistence and degradability Easily biodegradable</li> <li>Other information: Biodegradation according OECD 301 B; after 10 days: &gt; 60%. The product is easily biodegradable according to the OECD 301 and 302 guidelines.</li> <li>12.3 Bioaccumulative potential No further relevant information available.</li> <li>12.4 Mobility in soil No further relevant information available.</li> </ul>	Do not allow product to reach ground water, water course or sewage system.

- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

# **13 Disposal considerations**

- · 13.1 Waste treatment methods
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.



according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 09.07.2015

Version number 3

Revision: 09.07.2015

Trade name: Coolant cutting fluid KSS-Top

(Contd. of page 5)

# · European waste catalogue

12 01 10\* synthetic machining oils

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

14.1 UN-Number ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA Class	Void
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Ann of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
ΙΑΤΑ	IATA Dangerous Goods Regulation (DGR) 56th Edition 2015
UN "Model Regulation":	

# 15 Regulatory information

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

· National regulations: no further regulations.

· Other regulations, limitations and prohibitive regulations

- · Substances of very high concern (SVHC) according to REACH, Article 57
- This preparation does not contain any SVHC ("Substances of Very High Concern")

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

## Regulations / approvals / listings:

Information on REACH registration numbers in section 3: In case of lack of REACH registration numbers on mentioned hazardous substances at the end of (Contd. on page 7) Safety Data Sheet according to 1907/2006/EC, Article 31 and 453/2010/EC



Printing date 09.07.2015

Version number 3

Revision: 09.07.2015

## Trade name: Coolant cutting fluid KSS-Top

(Contd. of page 6)

2010, then these numbers will be known and indicated only in section 3 within its tonnage band for registration, after the end of 2013, respectively by the end of 2018, or are exempt from the REACH regulation (e.g. polymers).

### RoHS:

The product is compliant with European Directives 2011/65/EC, 2002/95/EC, WEEE 2002/96/EC, 2003/11/EC, 2005/53/EC and RoHS.

The following substances ARE NOT contained:

Pentabromodiphenylether, Octabromodiphenylether, polybrominated diphenylether (PDBE) and / or polybrominated biphenyls (PBB), lead or it's compounds, cadmium or it's compounds, mercury or it's compounds, chromium Cr<sup>6</sup>+-compounds.

### · Relevant phrases

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

### · Department issuing MSDS: Product Stewardship

### · Editor's notice:

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.

### · Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation RoHS: Restriction of Hazardous Substances ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) ISO: International Organisation for Standardisation DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic CLP: Classification, Labeling and Packaging (European GHS) PBT: Persistent, Bioaccumulative and Toxic chemicals vPvB: very Persistent and very Bioaccumulative chemicals Acute Tox. 4: Acute toxicity, Hazard Category 4 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 \* Data compared to the previous version altered.

The asterisk (\*) on the left side indicate the respective changes from the previous version.

GB