

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date August 3, 2015

Revision: August 3, 2015

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

- **1.1 Product identifier**
- **Trade name: KleenBore® Number 10 Copper Cutter 100 CU**
- **Article number: C10 (1009083)**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Cleaning agent/ Cleaner
- **Uses advised against** Contact manufacturer.
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Safariland, LLC  
13386 International Parkway  
Jacksonville, FL 32218  
Customer Care (800) 347-1200
- **1.4 Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924, +1 (813)248-0585



## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).



flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

STOT RE 1 H372 Causes damage to the central nervous system through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

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STOT SE 3 H335 May cause respiratory irritation.

· **Additional information:**

There are no other hazards not otherwise classified that have been identified.

0 % of the mixture consists of component(s) of unknown toxicity.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02 GHS05 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Stoddard solvent

2-aminoethanol

1-pentanol

· **Hazard statements**

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H340 May cause genetic defects.

H350 May cause cancer.

H335 May cause respiratory irritation.

H372 Causes damage to the central nervous system through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

· **Precautionary statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P240 Ground/bond container and receiving equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.
- P321 Specific treatment (see on this label).
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P363 Wash contaminated clothing before reuse.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P314 Get medical advice/attention if you feel unwell.
- P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.
- P405 Store locked up.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

Restricted to professional users.

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



\* - Indicates a long term health hazard from repeated or prolonged exposures.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

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

· **Dangerous components:**

|   |   |         |
|---|---|---------|
| CAS: 8052-41-3<br>EINECS: 232-489-3<br>Index number: 649-345-00-4 | Stoddard solvent<br>Flam. Liq. 3, H226<br>Muta. 1B, H340; Carc. 1B, H350; STOT RE 1, H372; Asp.<br>Tox. 1, H304 | 50-100% |
|---|---|---------|

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|  |   | (Cont'd. from page 3) |
|--|---|-----------------------|
| CAS: 71-41-0<br>EINECS: 200-752-1<br>Index number: 603-200-00-1  | 1-pentanol<br> Flam. Liq. 3, H226<br> Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335  | 2,5-10%               |
| CAS: 628-63-7<br>EINECS: 211-047-3<br>Index number: 607-130-00-2 | pentyl acetate<br> Flam. Liq. 3, H226  | 2,5-10%               |
| CAS: 111-76-2<br>EINECS: 203-905-0<br>Index number: 603-014-00-0 | 2-butoxyethanol<br> Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319  | 2,5-10%               |
| CAS: 141-43-5<br>EINECS: 205-483-3<br>Index number: 603-030-00-8 | 2-aminoethanol<br> Skin Corr. 1B, H314<br> Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335<br>Aquatic Chronic 3, H412 | 2,5-10%               |

· **Additional information:**  
For the listed ingredient(s), the identity and exact percentages are being withheld as a trade secret.

## SECTION 4: First aid measures

### · 4.1 Description of first aid measures

#### · **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air.

#### · **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

In case of unconsciousness place patient stably in side position for transportation.

#### · **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

Seek immediate medical help for blistering or open wounds.

#### · **After eye contact:**

Protect unharmed eye.

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. Then consult a doctor.

#### · **After swallowing:**

A person vomiting while laying on their back should be turned onto their side.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

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

Breathing difficulty

Coughing

Dizziness

Strong caustic effect on skin and mucous membranes.

May cause gastro-intestinal irritation if ingested.

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May cause respiratory irritation.  
Disorientation

- **Hazards**

Danger of gastric perforation.  
Danger of pulmonary oedema.  
Danger of impaired breathing.  
Causes serious eye damage.  
May be fatal if swallowed and enters airways.  
Causes damage to the central nervous system through prolonged or repeated exposure.  
May cause cancer.  
May cause genetic defects.

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

If swallowed or in case of vomiting, danger of entering the lungs.  
Medical supervision for at least 48 hours.  
If necessary oxygen respiration treatment.  
Later observation for pneumonia and pulmonary oedema.  
If medical advice is needed, have product container or label at hand.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:**

Alcohol resistant foam  
Foam  
Water haze or fog  
Carbon dioxide  
Gaseous extinguishing agents  
Fire-extinguishing powder

- **For safety reasons unsuitable extinguishing agents:**

Water spray  
Water with full jet

- **5.2 Special hazards arising from the substance or mixture**

Flammable liquid and vapour.  
During heating or in case of fire poisonous gases are produced.

- **5.3 Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.  
Wear fully protective suit.

- **Additional information**

Eliminate all ignition sources if safe to do so.  
Use large quantities of foam as it is partially destroyed by the product.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.

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Ensure adequate ventilation

Keep away from ignition sources.

- **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 non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).

Dispose contaminated material as waste according to section 13.

Send for recovery or disposal in suitable receptacles.

- **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

- **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Flammable liquid and vapour.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Provide ventilation for receptacles.

Store only in the original receptacle.

Avoid storage near extreme heat, ignition sources or open flame.

- **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidising agents.

Do not store together with acids.

- **Further information about storage conditions:**

Keep container tightly sealed.

Protect from humidity and water.

- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see section 7.

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

**8052-41-3 Stoddard solvent**

|           |   |
|-----------|---|
| PEL (USA) | Long-term value: 2900 mg/m <sup>3</sup> , 500 ppm |
|-----------|---|

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|                                 |  |
|---------------------------------|--|
| REL (USA)                       | Long-term value: 350 mg/m <sup>3</sup><br>Ceiling limit: 1800* mg/m <sup>3</sup><br>*15-min                |
| TLV (USA)                       | Long-term value: 525 mg/m <sup>3</sup> , 100 ppm   |
| EL (Canada)                     | Short-term value: 580 mg/m <sup>3</sup><br>Long-term value: 290 mg/m <sup>3</sup>                          |
| EV (Canada)                     | Long-term value: 525 mg/m <sup>3</sup>   |
| <b>71-41-0 1-pentanol</b>       |  |
| WEEL (USA)                      | Long-term value: 100 ppm   |
| <b>628-63-7 pentyl acetate</b>  |  |
| IOELV (EU)                      | Short-term value: 540 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 270 mg/m <sup>3</sup> , 50 ppm       |
| PEL (USA)                       | Long-term value: 525 mg/m <sup>3</sup> , 100 ppm   |
| REL (USA)                       | Long-term value: 525 mg/m <sup>3</sup> , 100 ppm   |
| TLV (USA)                       | Short-term value: 532 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 266 mg/m <sup>3</sup> , 50 ppm       |
| EL (Canada)                     | Short-term value: 100 ppm<br>Long-term value: 50 ppm   |
| EV (Canada)                     | Short-term value: 100 ppm<br>Long-term value: 50 ppm   |
| <b>111-76-2 2-butoxyethanol</b> |  |
| IOELV (EU)                      | Short-term value: 246 mg/m <sup>3</sup> , 50 ppm<br>Long-term value: 98 mg/m <sup>3</sup> , 20 ppm<br>Skin |
| PEL (USA)                       | Long-term value: 240 mg/m <sup>3</sup> , 50 ppm<br>Skin  |
| REL (USA)                       | Long-term value: 24 mg/m <sup>3</sup> , 5 ppm<br>Skin  |
| TLV (USA)                       | Long-term value: 97 mg/m <sup>3</sup> , 20 ppm<br>BEI  |
| EL (Canada)                     | Long-term value: 20 ppm  |
| EV (Canada)                     | Long-term value: 20 ppm<br>Skin  |
| <b>141-43-5 2-aminoethanol</b>  |  |
| IOELV (EU)                      | Short-term value: 7,6 mg/m <sup>3</sup> , 3 ppm<br>Long-term value: 2,5 mg/m <sup>3</sup> , 1 ppm<br>Skin  |
| PEL (USA)                       | Long-term value: 6 mg/m <sup>3</sup> , 3 ppm   |
| REL (USA)                       | Short-term value: 15 mg/m <sup>3</sup> , 6 ppm<br>Long-term value: 8 mg/m <sup>3</sup> , 3 ppm             |
| TLV (USA)                       | Short-term value: 15 mg/m <sup>3</sup> , 6 ppm<br>Long-term value: 7,5 mg/m <sup>3</sup> , 3 ppm           |

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|             |  |
|-------------|--|
| EL (Canada) | Short-term value: 6 ppm<br>Long-term value: 3 ppm  |
| EV (Canada) | Short-term value: 15 mg/m <sup>3</sup> , 6 ppm<br>Long-term value: 7,5 mg/m <sup>3</sup> , 3 ppm |

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.

· **Ingredients with biological limit values:**

**111-76-2 2-butoxyethanol**

|           |  |
|-----------|--|
| BEI (USA) | 200 mg/g creatinine<br>Medium: urine<br>Time: end of shift<br>Parameter: Butoxyacetic acid with hydrolysis |
|-----------|--|

- **Additional information:** No further relevant information available.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves**

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

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

· **Eye protection:**

Contact lenses should not be worn.



Safety glasses

- **Body protection:** Protective work clothing

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- **Limitation and supervision of exposure into the environment**  
No further relevant information available.

## SECTION 9: Physical and chemical properties

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

#### · General Information

#### · Appearance:

|                  |                 |
|------------------|-----------------|
| Form:            | Liquid          |
| Colour:          | Colourless      |
| Odour:           | Solvent-like    |
| Odour threshold: | Not determined. |

· pH-value: Not determined.

#### · Change in condition

|                              |                  |
|------------------------------|------------------|
| Melting point/Melting range: | Not Determined.  |
| Boiling point/Boiling range: | >90 °C (>194 °F) |

· Flash point: >32 °C (>90 °F)

· Flammability (solid, gaseous): Not applicable.

· Auto/Self-ignition temperature: 230 °C (446 °F)

· Decomposition temperature: Not determined.

· Self-igniting: Product is not self-igniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

#### · Explosion limits:

|        |            |
|--------|------------|
| Lower: | 1,0 Vol %  |
| Upper: | 10,6 Vol % |

· Oxidising properties: Non-oxidising.

· Vapour pressure at 20 °C (68 °F): 5,3 hPa (4 mm Hg)

· Density at 20 °C (68 °F): 0,96 g/cm<sup>3</sup> (8,011 lbs/gal)

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with water:

Partly miscible.

· Partition coefficient (n-octanol/water): Not determined.

#### · Viscosity:

|            |                 |
|------------|-----------------|
| Dynamic:   | Not determined. |
| Kinematic: | Not determined. |

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· **9.2 Other information**

No further relevant information available.

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## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Flammable.  
Used empty containers may contain product gases which form explosive mixtures with air.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.  
Flammable liquid and vapour.  
Toxic fumes may be released if heated above the decomposition point.  
Exothermic reaction with acids.  
Reacts with oxidising agents.
- **10.4 Conditions to avoid**  
Keep ignition sources away - Do not smoke.  
Store away from oxidising agents.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides  
Hydrocarbons

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:**

**71-41-0 1-pentanol**

|        |      |                     |
|--------|------|---------------------|
| Oral   | LD50 | 2200 mg/kg (rat)    |
| Dermal | LD50 | 3600 mg/kg (rabbit) |

**111-76-2 2-butoxyethanol**

|            |         |                  |
|------------|---------|------------------|
| Oral       | LD50    | 1480 mg/kg (rat) |
| Dermal     | LD50    | 400 mg/kg (rab)  |
| Inhalative | LC50/4h | 450 ppm (rat)    |

**141-43-5 2-aminoethanol**

|        |      |                     |
|--------|------|---------------------|
| Oral   | LD50 | 2050 mg/kg (rat)    |
| Dermal | LD50 | 1000 mg/kg (rabbit) |

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes severe skin burns and eye damage.

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- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**  
Toxic and/or corrosive effects may be delayed up to 24 hours.  
Danger through skin adsorption.
- **Acute effects (acute toxicity, irritation and corrosivity):**  
Causes severe skin burns and eye damage.  
Irritating to respiratory system.
- **Repeated dose toxicity:**  
Danger of very serious irreversible effects.  
Causes damage to the central nervous system through prolonged or repeated exposure.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- **Germ cell mutagenicity**  
May cause genetic defects.
- **Carcinogenicity**  
May cause cancer.
- **Reproductive toxicity**  
Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause respiratory irritation.
- **STOT-repeated exposure**  
Causes damage to the central nervous system through prolonged or repeated exposure.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Danger to drinking water if even small quantities leak into the ground.  
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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## SECTION 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.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

#### Uncleaned packaging:

**Recommendation:** Disposal must be made according to local official regulations.

## SECTION 14: Transport information

### 14.1 UN-Number

DOT, ADR, IMDG, IATA

UN2924

### 14.2 UN proper shipping name

DOT

Flammable liquids, corrosive, n.o.s. (Mineral Spirits, Ethanolamine)

ADR

2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (MINERAL SPIRITS, ETHANOLAMINE)

IMDG, IATA

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (MINERAL SPIRITS, ETHANOLAMINE)

### 14.3 Transport hazard class(es)

DOT



Class

8 Corrosive substances.

Label

3, 8

ADR



Class

3 (FC) Flammable liquids.

Label

3+8

IMDG



Class

3 Flammable liquids.

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|   |   |                        |
|---|---|------------------------|
| · Label   | 3/8   | (Cont'd. from page 12) |
| -----   |   |                        |
| · IATA  |   |                        |
|  |                        |                        |
| · Class   | 3 Flammable liquids.  |                        |
| · Label   | 3 (8)   |                        |
| · 14.4 Packing group  |   |                        |
| · DOT, ADR, IMDG, IATA  | III   |                        |
| · 14.5 Environmental hazards:   | Not applicable.   |                        |
| · 14.6 Special precautions for user   | Warning: Flammable liquids.   |                        |
| · Danger code (Kemler):   | 83  |                        |
| · EMS Number:   | F-E,S-C   |                        |
| · Segregation groups  | Alkalis   |                        |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code         | Not applicable.   |                        |
| · Transport/Additional information:   |   |                        |
| -----   |   |                        |
| · ADR   |   |                        |
| · Limited quantities (LQ)   | 5L  |                        |
| · Excepted quantities (EQ)  | Code: E1  |                        |
|   | Maximum net quantity per inner packaging: 30 ml   |                        |
|   | Maximum net quantity per outer packaging: 1000 ml   |                        |
| · Transport category  | 3   |                        |
| · Tunnel restriction code   | D/E   |                        |
| -----   |   |                        |
| · IMDG  |   |                        |
| · Limited quantities (LQ)   | 5L  |                        |
| · Excepted quantities (EQ)  | Code: E1  |                        |
|   | Maximum net quantity per inner packaging: 30 ml   |                        |
|   | Maximum net quantity per outer packaging: 1000 ml   |                        |
| · UN "Model Regulation":  | UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHANOLAMINE, Stoddard solvent, AMYL ACETATES), 3 (8), III |                        |

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

### Section 355 (extremely hazardous substances):

None of the ingredients are listed.

### Section 313 (Specific toxic chemical listings):

111-76-2 | 2-butoxyethanol

(Cont'd. on page 14)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date August 3, 2015

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|  |
|--|
| <b>Trade name: KleenBore® Number 10 Copper Cutter 100 CU</b> |
|--|

(Cont'd. from page 13)

|   |
|---|
| <b>· TSCA (Toxic Substances Control Act):</b> |
|---|

|                             |
|-----------------------------|
| All ingredients are listed. |
|-----------------------------|

|                                       |
|---------------------------------------|
| <b>· Proposition 65 (California):</b> |
|---------------------------------------|

|   |
|---|
| <b>· Chemicals known to cause cancer:</b> |
|---|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

|  |
|--|
| <b>· Chemicals known to cause reproductive toxicity for females:</b> |
|--|

|                                     |
|-------------------------------------|
| None of the ingredients are listed. |
|-------------------------------------|

|  |
|--|
| <b>· Chemicals known to cause reproductive toxicity for males:</b> |
|--|

|                                     |
|-------------------------------------|
| None of the ingredients are listed. |
|-------------------------------------|

|   |
|---|
| <b>· Chemicals known to cause developmental toxicity:</b> |
|---|

|                                     |
|-------------------------------------|
| None of the ingredients are listed. |
|-------------------------------------|

|                                  |
|----------------------------------|
| <b>· Carcinogenic Categories</b> |
|----------------------------------|

|  |
|--|
| <b>· EPA (Environmental Protection Agency)</b> |
|--|

|                            |
|----------------------------|
| 111-76-2   2-butoxyethanol |
|----------------------------|

|    |
|----|
| NL |
|----|

|   |
|---|
| <b>· IARC (International Agency for Research on Cancer)</b> |
|---|

|                            |
|----------------------------|
| 111-76-2   2-butoxyethanol |
|----------------------------|

|   |
|---|
| 3 |
|---|

|   |
|---|
| <b>· TLV (Threshold Limit Value established by ACGIH)</b> |
|---|

|                            |
|----------------------------|
| 111-76-2   2-butoxyethanol |
|----------------------------|

|    |
|----|
| A3 |
|----|

|   |
|---|
| <b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b> |
|---|

|                                     |
|-------------------------------------|
| None of the ingredients are listed. |
|-------------------------------------|

|                 |
|-----------------|
| <b>· Canada</b> |
|-----------------|

|  |
|--|
| <b>· Canadian Domestic Substances List (DSL)</b> |
|--|

|                             |
|-----------------------------|
| All ingredients are listed. |
|-----------------------------|

|   |
|---|
| <b>· Canadian Ingredient Disclosure list (limit 0.1%)</b> |
|---|

|                                     |
|-------------------------------------|
| None of the ingredients are listed. |
|-------------------------------------|

|   |
|---|
| <b>· Canadian Ingredient Disclosure list (limit 1%)</b> |
|---|

|                             |
|-----------------------------|
| All ingredients are listed. |
|-----------------------------|

|                               |
|-------------------------------|
| <b>· Directive 2012/18/EU</b> |
|-------------------------------|

|   |
|---|
| <b>· Named dangerous substances - ANNEX I</b> |
|---|

|                                     |
|-------------------------------------|
| None of the ingredients are listed. |
|-------------------------------------|

|   |
|---|
| <b>· Other regulations, limitations and prohibitive regulations</b> |
|---|

|  |
|--|
| This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. |
|--|

|  |
|--|
| <b>· Substances of very high concern (SVHC) according to REACH, Article 57</b> |
|--|

|                                     |
|-------------------------------------|
| None of the ingredients are listed. |
|-------------------------------------|

|  |
|--|
| <b>· 15.2 Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out. |
|--|

(Cont'd. on page 15)

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(Cont'd. from page 14)

## SECTION 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.

### · Relevant phrases

- H226 Flammable liquid and vapour.
- 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.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H372 Causes damage to the central nervous system through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

### · Abbreviations and acronyms:

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- ACGIH: American Conference of Governmental Industrial Hygienists
- 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)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- 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
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids, Hazard Category 3
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- Muta. 1B: Germ cell mutagenicity, Hazard Category 1B
- Carc. 1B: Carcinogenicity, Hazard Category 1B
- STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
- STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1
- Asp. Tox. 1: Aspiration hazard, Hazard Category 1
- Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

### · Sources

- Website, European Chemicals Agency ([http://http://echa.europa.eu/](http://echa.europa.eu/))
- Website, US EPA Substance Registry Services ([http://http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do))
- Website, Chemical Abstracts Registry, American Chemical Society (<https://www.cas.org>)

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**Safety Data Sheet**  
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date August 3, 2015

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**Trade name: KleenBore® Number 10 Copper Cutter 100 CU**

(Cont'd. from page 15)

Patty's Industrial Hygiene, 6th ed. , Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6  
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN:  
978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: [www.chemtelinc.com](http://www.chemtelinc.com)