SECTION 1. IDENTIFICATION

Commercial Product Name: CUT COOL CUTTING/DRILLING OIL 400ml
Product number: 0893050004
SDS-Identcode: 10034092
Product Use Description: Anti-friction agent and lubricant
Company: Wurth USA Inc.
93 Grant St.
07446 Ramsey, NJ
USA
Telephone: +1 201 825 27 10
Telefax: +1 201 825 16 43
Responsible/issuing person: prodsafe@wuerth.com
Emergency telephone number: +1 800 255 3924

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
- Flammable aerosols: Category 1
- Gases under pressure: Liquefied gas
- Skin irritation: Category 2
- Reproductive toxicity: Category 2

GHS Label element
- Hazard pictograms:
- Signal word: Danger
- Hazard statements:
  - H222 Extremely flammable aerosol.
  - H280 Contains gas under pressure; may explode if heated.
  - H315 Causes skin irritation.
  - H361 Suspected of damaging fertility or the unborn child.
Precautionary statements:

**Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves.
P281 Use personal protective equipment as required.

**Response:**
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

**Storage:**
P405 Store locked up.
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.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight percent-Weight percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>distillates (petroleum), hydrotreated heavy paraffinic</td>
<td>64742-54-7</td>
<td>&gt;= 50 - &lt; 70</td>
</tr>
<tr>
<td>isobutane</td>
<td>75-28-5</td>
<td>&gt;= 20 - &lt; 30</td>
</tr>
<tr>
<td>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</td>
<td>64742-49-0</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>propane</td>
<td>74-98-6</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>butane</td>
<td>106-97-8</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>n-hexane</td>
<td>110-54-3</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
</tbody>
</table>
SECTION 4. FIRST AID MEASURES

General advice : If you feel unwell, seek medical advice (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.

Inhalation : If breathed in, move person into fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Skin contact : In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician. Wash off with polyethylene glycol and afterwards with plenty of water.

Eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

Notes to physician

Treatment : Treat symptomatically and supportively.

SECTION 5. FIREFIGHTING MEASURES

Form : Aerosol containing a liquefied gas

Flash point : -11.98 °C (10.44 °F)
Note: Active ingredient

Suitable extinguishing media : Carbon dioxide (CO2)
Foam
Dry powder

Unsuitable extinguishing : High volume water jet
media

Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire. Exposure to decomposition products may be a hazard to health.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Remove all sources of ignition. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Contaminated surfaces will be extremely slippery. Immediately evacuate personnel to safe areas. Avoid inhalation of vapour or mist. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions : Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities. Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Methods for cleaning up: Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Clean contaminated surface thoroughly.

CERCLA Hazardous substances and corresponding RQs:

<table>
<thead>
<tr>
<th>Hazardous Substance</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>110-54-3</td>
<td>5,000 lbs final RQ</td>
</tr>
</tbody>
</table>

SECTION 7. HANDLING AND STORAGE

Handling:
- For personal protection see section 8.
- Limit the stocks at work place.
- Use only in well-ventilated areas.
- Do not breathe vapours or spray mist.
- Avoid contact with skin and eyes.
- Do not spray on a naked flame or any incandescent material.
- Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.
- Take precautionary measures against static discharges.
- Do not carry cloths that have come into contact with the product in your clothing.

Advice on protection against fire and explosion:
- Normal measures for preventive fire protection.
- Vapours are heavier than air and may spread along floors.
- Vapours may form explosive mixtures with air.
- Keep away from heat and sources of ignition.
- Do not smoke.
- No sparking tools should be used.
- Electrical equipment should be protected to the
Dust explosion class: Not applicable

Storage
Requirements for storage areas and containers: Store in original container. BEWARE: Aerosol is pressurized. Keep away from heat. Keep away from direct sunlight. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep containers tightly closed in a cool, well-ventilated place. Please observe the storage instructions for aerosols!

Advice on common storage: Incompatible with oxidizing agents.

Storage temperature: >= 10 °C (>= 50 °F)

Other data: No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>List</th>
<th>Type:</th>
<th>Value</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated heavy paraffinic</td>
<td>64742-54-7</td>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>2011-07-01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>NIOSH REL</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>2013-10-08</td>
</tr>
<tr>
<td>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</td>
<td>64742-49-0</td>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>500 ppm 3,000 mg/m³</td>
<td>2007-01-01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Engineering measures: Provide sufficient air exchange and/or exhaust in work rooms.

Eye protection: Tightly fitting safety goggles

Hand protection
Glove material: Nitrile rubber

Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Skin and body protection: Flame retardant antistatic protective clothing.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection: In the case of vapour formation use a respirator with an approved filter.
Respirator with filter type A

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Do not inhale aerosol.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Take off all contaminated clothing immediately.
Wash contaminated clothing before re-use.
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Aerosol containing a liquefied gas
Physical state: aerosol

Colour: red brown
Odour: bitter almond
Odour Threshold: No data available
Flash point: -11.98 °C (10.44 °F)
Note: Active ingredient

Ignition temperature: No data available
Thermal decomposition: No data available
Lower explosion limit: 1.0 % (V)

Upper explosion limit: 11 % (V)

Flammability: Extremely flammable aerosol.

Molecular weight: No data available
pH: Not applicable
Boiling point/boiling range: 80 °C (176 °F)

Vapour pressure: No data available
Relative vapour density: No data available
Evaporation rate: No data available
Density: 0.83 g/cm³
at 20 °C (68 °F) Active ingredient

Relative density: No data available
Bulk density: No data available
Water solubility: insoluble
Partition coefficient: n-octanol/water: No data available
Solubility in other solvents: No data available
Viscosity, dynamic: No data available
Viscosity, kinematic: No data available
Volatil organic compounds (VOC) content: 47.9 %

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid: Heat, flames and sparks.

Materials to avoid: Oxidizing agents
Avoid contact with other chemicals.

Hazardous decomposition products: Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

Hazardous reactions: Note: No decomposition if stored and applied as directed.
Vapours may form explosive mixtures with air.
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenicity: No data is available on the product itself.
Reproductive toxicity: No data is available on the product itself.
Teratogenicity: No data is available on the product itself.

Component:
- distillates (petroleum)
- hydrotreated heavy paraffinic

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

Acute dermal toxicity: LD50 Rabbit
Dose: > 5,000 mg/kg
Method: OECD Test Guideline 402

Acute inhalation toxicity: LC50 Rat
Dose: > 5.53 mg/L/Exposure time: 4 h
Method: OECD Test Guideline 403

Skin irritation: Rabbit
Result: No skin irritation

Eye irritation: Rabbit
Result: No eye irritation
Carcinogenicity: Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

isobutane 75-28-5 Acute inhalation toxicity: LC50 Mouse
Dose: 1,237 mg/l Exposure time: 120 min
Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Reproductive toxicity: No toxicity to reproduction

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane 64742-49-0 Skin irritation: Result: irritating
Carcinogenicity: Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)
Mutagenicity: Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

butane 106-97-8 Acute inhalation toxicity: LC50 Mouse
Dose: 1,237 mg/l 520400 ppm Exposure time: 2 h

n-hexane 110-54-3 Acute oral toxicity: LD50 Rat
Dose: ca. 16 g/kg Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 Rabbit
Dose: > 3,350 mg/kg Method: OECD Test Guideline 402

Acute inhalation toxicity: LC50
Dose: 259.354 mg/l 73860 ppm Exposure time: 4 h Method: OECD Test Guideline 403

Skin irritation: Rabbit Result: irritating Method: OECD Test Guideline 404

Eye irritation: Rabbit Result: No eye irritation Method: OECD Test Guideline 405

Reproductive toxicity: Suspected human reproductive toxicant
Suspected of damaging fertility.

Carcinogenicity: ACGIH
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or
potential carcinogen by ACGIH.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### SECTION 12. ECOLOGICAL INFORMATION

| Volatile organic compounds (VOC) content | 47.9 % |
| Additional ecological information | The product should not be allowed to enter drains, water courses or the soil. |

**Component:**

- **distillates (petroleum), hydrotreated heavy paraffinic**

<table>
<thead>
<tr>
<th>Toxicity to fish:</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50</td>
</tr>
<tr>
<td>Species: Pimephales promelas (fathead minnow)</td>
</tr>
<tr>
<td>Dose: &gt; 100 mg/l</td>
</tr>
<tr>
<td>Exposure time: 96 h</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acute and prolonged toxicity for aquatic invertebrates:</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50</td>
</tr>
<tr>
<td>Species: Daphnia magna (Water flea)</td>
</tr>
<tr>
<td>Dose: &gt; 10,000 mg/l</td>
</tr>
<tr>
<td>Exposure time: 48 h</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxicity to algae:</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOEC</td>
</tr>
<tr>
<td>Species: Pseudokirchneriella subcapitata (algae)</td>
</tr>
<tr>
<td>Dose: &gt;= 100 mg/l</td>
</tr>
<tr>
<td>Exposure time: 72 h</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxicity to bacteria:</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOEC</td>
</tr>
<tr>
<td>Species: Photobacterium phosphoreum</td>
</tr>
<tr>
<td>Dose: &gt; 1.93 mg/l</td>
</tr>
</tbody>
</table>
Exposure time: 10 min

n-hexane 110-54-3 Toxicity to fish:
LC50:
Species: Oryzias latipes (Orange-red killifish)
Dose: > 1,000 µg/l
Exposure time: 48 h

Acute and prolonged toxicity for aquatic invertebrates:
EC50:
Species: Daphnia magna (Water flea)
Dose: 30 mg/l
Exposure time: 48 h

Toxicity to algae:
ErC50
Species: Pseudokirchneriella subcapitata (algae)
Dose: 9.285 mg/l
Exposure time: 72 h
Calculation
Toxicity to algae:
Growth inhibition NOEC
Species: Pseudokirchneriella subcapitata (algae)
Dose: 2.077 mg/l
Exposure time: 72 h
Method:
Calculation
Toxicity to bacteria:
EC50
Species: Bacteria
Dose: 48.396 mg/l
Exposure time: 48 h
Calculation
Toxicity to bacteria:
NOEC
Species: Bacteria
Dose: 10.82 mg/l
Exposure time: 48 h
Calculation

SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal: In accordance with local and national regulations. This material and its container must be disposed of as hazardous waste.

SECTION 14. TRANSPORT INFORMATION
DOT 49 CFR
ID No : UN 1950
Proper shipping name : Aerosols
Class : 2.1
Labels : 2.1
Emergency Response : 126
Guidebook Number

TDGR
ID No : UN 1950
Proper shipping name : AEROSOLS
Class : 2.1
Labels : 2.1

ICAO/IATA-DGR
ID No : UN 1950
Proper shipping name : Aerosols, flammable
Class : 2.1
ICAO-Labels : 2.1
Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203
Packing instruction (passenger aircraft) : Y203
Environmentally hazardous : no

IMDG-Code
ID No : UN 1950
Description of the goods : AEROSOLS
Class : 2.1
IMDG-Labels : 2.1
EmS Number 1 : F-D
EmS Number 2 : S-U
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard
Fire Hazard
Sudden Release of Pressure Hazard

**CERCLA Reportable Quantity**

Calculated RQ exceeds reasonably attainable upper limit.

**EPCRA_313**
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**EPCRA_302**
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**PENN RTK**
US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>distillates (petroleum), hydrotreated heavy</td>
<td>64742-54-7</td>
</tr>
<tr>
<td>paraffinic</td>
<td></td>
</tr>
<tr>
<td>isobutane</td>
<td>75-28-5</td>
</tr>
<tr>
<td>Hydrocarbons, C6-C7, n-alkanes, isoalkanes,</td>
<td>64742-49-0</td>
</tr>
<tr>
<td>cyclics, &lt;5% n-hexane</td>
<td></td>
</tr>
<tr>
<td>propane</td>
<td>74-98-6</td>
</tr>
<tr>
<td>butane</td>
<td>106-97-8</td>
</tr>
</tbody>
</table>

**MASS RTK**
US. Massachusetts Commonwealth’s Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>distillates (petroleum), hydrotreated heavy</td>
<td>64742-54-7</td>
</tr>
<tr>
<td>paraffinic</td>
<td></td>
</tr>
<tr>
<td>isobutane</td>
<td>75-28-5</td>
</tr>
<tr>
<td>propane</td>
<td>74-98-6</td>
</tr>
<tr>
<td>butane</td>
<td>106-97-8</td>
</tr>
</tbody>
</table>

**NJ RTK**
US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>distillates (petroleum), hydrotreated heavy</td>
<td>64742-54-7</td>
</tr>
<tr>
<td>paraffinic</td>
<td></td>
</tr>
</tbody>
</table>
isobutane: 75-28-5
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane: 64742-49-0
propane: 74-98-6
butane: 106-97-8

California Prop. 65: WARNING! This product contains a chemical known to the State of California to cause cancer.

SECTION 16. OTHER INFORMATION

Further information

NFPA: Flammability

Health: 3
Reactivity: 4
Specific Hazard: 0

HMIS III:

HEALTH 3*
FLAMMABILITY 4
PHYSICAL 2

0 = Insignificant, 1 =Slight, 2 =Moderate, 3 =High, 4 = Extreme

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Prepared by: SAP Business Compliance Services GmbH
Birkenbacher Str. 19
D-57078 Siegen
Germany
Telephone: +49-(0)271-88072-0

Revision Date: 02/16/2015
### Safety Data Sheet

**CUT COOL CUTTING/DRILLING OIL 400ml**

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date</th>
<th>Print Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0</td>
<td>02/16/2015</td>
<td>02/19/2015</td>
</tr>
</tbody>
</table>

- **Date of last issue**: 08/15/2014
- **Date of first issue**: 12/23/2009