1 Identification

· Product identifier
  · Trade name: Drislide Multi-Purpose Lubricant-Liquid
  · Relevant identified uses of the substance or mixture and uses advised against
    No further relevant information available.
  · Application of the substance / the mixture
    Lubricant

· Details of the supplier of the safety data sheet
  · Manufacturer/Supplier:
    Cortec Corporation
    4119 White Bear Parkway
    St. Paul, MN 55110 USA
    Phone (651) 429-1100
    Fax (651) 429-1122
  · Information department:
    regulatory@cortecvci.com
    Product safety department.
  · Emergency telephone number:
    Spill, Leak, Fire, Exposure, or Accident
    24 hour CHEMTREC contact:
    USA and Canada 1-800-424-9300
    International +1 703-527-3887 (collect calls accepted)

2 Hazard(s) identification

· Classification of the substance or mixture
  · GHS02 Flame
    Flam. Liq. 3 H226 Flammable liquid and vapor.
  · GHS08 Health hazard
    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.
  · GHS07
    Acute Tox. 4 H332 Harmful if inhaled.

· Label elements
  · GHS label elements
    The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms
  · GHS02
  · GHS07
  · GHS08

· Signal word Danger
3 Composition/information on ingredients

· Chemical characterization: Mixtures
· Description: Mixture of the substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Chemical characterization</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 64742-88-7</td>
<td>Solvent naphtha (petroleum), medium aliph.</td>
</tr>
<tr>
<td>EINECS: 265-191-7</td>
<td>STOT RÉ 1, H372; Asp. Tox. 1, H304; Flam. Liq. 4, H227</td>
</tr>
<tr>
<td>CAS: 64742-53-6</td>
<td>Process oil</td>
</tr>
<tr>
<td>EINECS: 265-156-6</td>
<td>Carc. 1B, H350</td>
</tr>
<tr>
<td>CAS: 68649-42-3</td>
<td>Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts</td>
</tr>
<tr>
<td>EINECS: 272-028-3</td>
<td>Eye Dam. 1, H318; Skin Irrit. 2, H315</td>
</tr>
</tbody>
</table>

· Additional information
Molybdenum Disulfide is present at 2.5-10%
For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

· Description of first aid measures
· After inhalation Supply fresh air; consult doctor in case of complaints.
· After skin contact Immediately rinse with water.
· After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
· After swallowing 
  If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label
· Information for doctor
· Most important symptoms and effects, both acute and delayed No further relevant information available.
· Indication of any immediate medical attention and special treatment needed
No further relevant information available.
5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents

CO2, sand, extinguishing powder. Do not use water.

- For safety reasons unsuitable extinguishing agents
  Water.
  Water with full jet.
- Special hazards arising from the substance or mixture
  In certain fire conditions, traces of other toxic gases cannot be excluded.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures

  Wear protective equipment. Keep unprotected persons away.

  Ensure adequate ventilation
  Keep away from ignition sources
- Environmental precautions: Do not allow undiluted product to enter sewers/surface or ground water
- Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
  Do not flush with water or aqueous cleansing agents
- 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.

7 Handling and storage

- Handling
- Precautions for safe handling
  Ensure good ventilation/exhaustion at the workplace.
  Prevent formation of aerosols.
- Information about protection against explosions and fires:

  Keep ignition sources away - Do not smoke.

  Protect against electrostatic charges.
  Use explosion-proof apparatus / fittings and spark-proof tools.
Safety Data Sheet
acc. to OSHA HCS

Trade name: Drislide Multi-Purpose Lubricant-Liquid

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
  - Components with limit values that require monitoring at the workplace:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
  - Personal protective equipment
    - General protective and hygienic measures
      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.
  - Breathing equipment:
    Use suitable respiratory protective device in case of insufficient ventilation.
  - Protection of hands:
    Protective gloves
    I.E., Nitrile, Viton, Neoprene
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  - 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: Tightly sealed goggles.
  - Body protection: Protective work clothing.

9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
  - Appearance:
    Form: Liquid
Trade name: Drislide Multi-Purpose Lubricant-Liquid

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH-value</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Change in condition</td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range</td>
<td>Undetermined</td>
</tr>
<tr>
<td>Boiling point/Boiling range</td>
<td>&gt; 260 °C (&gt; 500 °F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>46 °C (115 °F)</td>
</tr>
<tr>
<td>Flammability (solid, gaseous)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>265 °C (509 °F)</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto igniting</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>Danger of explosion</td>
<td>Product is not explosive. However, formation of explosive air/vapor mixtures are possible.</td>
</tr>
<tr>
<td>Explosion limits</td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>0.6 Vol %</td>
</tr>
<tr>
<td>Upper</td>
<td>6.5 Vol %</td>
</tr>
<tr>
<td>Vapor pressure at 20 °C (68 °F):</td>
<td>6.6 hPa (5 mm Hg)</td>
</tr>
<tr>
<td>Density at 20 °C (68 °F):</td>
<td>0.85-0.89 g/cm³ (7.093-7.427 lbs/gal)</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water</td>
<td>Not miscible or difficult to mix</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>dynamic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>kinematic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solvent content</td>
<td></td>
</tr>
<tr>
<td>Organic solvents</td>
<td>75-80 %</td>
</tr>
<tr>
<td>Solids content</td>
<td>20-25 %</td>
</tr>
<tr>
<td>Other information</td>
<td>VOC: 0.72 g/cm³ (6.01 lb/gal)</td>
</tr>
</tbody>
</table>

The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted.

### 10 Stability and reactivity

- **Reactivity**: No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided**: No decomposition if used according to specifications.
- **Possibility of hazardous reactions**: No dangerous reactions known.
- **Conditions to avoid**: No further relevant information available.
- **Incompatible materials**: No further relevant information available.
Trade name: Drislide Multi-Purpose Lubricant-Liquid

- **Hazardous decomposition products:** No dangerous decomposition products known

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
  - **LD/LC50 values that are relevant for classification:**
    | Solvent naphtha (petroleum), medium aliph. | Oral LD50 | >6500 mg/kg (rat) |
    | Dermal LD50 | >3000 mg/kg (rab) |
    | Inhalative LC50/4 h | >14 mg/l (rat) |
    | Process oil | Oral LD50 | >2000 mg/kg (rat) |
  - **Primary irritant effect:**
    - **on the skin:** Repeated or prolonged skin contact with this product may produce skin irritation.
    - **on the eye:** May be irritating.
    - **Sensitization:** No sensitizing effects known.
  - **Additional toxicological information:**
    The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
  - **Carcinogenic categories**
    - **IARC (International Agency for Research on Cancer)**
      IARC Category 3 : Not classifiable as to its carcinogenicity to humans
    - **NTP (National Toxicology Program)**
      None of the ingredients is listed.
    - **OSHA-Ca (Occupational Safety & Health Administration)**
      None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **Persistence and degradability** No further relevant information available.
  - **Behavior in environmental systems:**
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.
  - **Additional ecological information:**
  - **General notes:**
    Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
  - **Other adverse effects** No further relevant information available.

(Contd. on page 7)
13 Disposal considerations

- Waste treatment methods
- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
- DOT, IMDG, IATA UN1300
- ADR UN1300
  Not applicable

- UN proper shipping name
- DOT Turpentine substitute
- ADR 1300 Turpentine substitute
- IMDG, IATA TURPENTINE SUBSTITUTE

- Transport hazard class(es)
- DOT
  - Class 3
  - Label 3
- ADR, IMDG, IATA
  - Class 3
  - Label 3

- Packing group
- DOT, ADR, IMDG, IATA III

- Environmental hazards:
- Marine pollutant: No

- Special precautions for user
- Warning: Flammable liquids
- Danger code (Kemler): 30
- EMS Number: F-E,S-E

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
## Safety Data Sheet

**Trade name:** Drislide Multi-Purpose Lubricant-Liquid

### 15 Regulatory information

**SARA Section 355 (extremely hazardous substances)**
None of the ingredients is listed.

**SARA Section 313 (specific toxic chemical listings)**
None of the ingredients is listed.

**TSCA (Toxic Substances Control Act)**
All ingredients are listed.

**Prop 65 - Chemicals known to cause cancer**
None of the ingredients is listed.

**Cancerogenity categories**
None of the ingredients is listed.

**EPA (Environmental Protection Agency)**
None of the ingredients is listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

**Canadian Domestic Substances List (DSL)**
All ingredients are listed.

**Philippines Inventory of Chemicals and Chemical Substances**
All ingredients are listed.

**Chinese Chemical Inventory of Existing Chemical Substances**
All ingredients are listed.

**Australian Inventory of Chemical Substances**
All ingredients are listed.

**New Zealand Inventory of Chemicals**
All ingredients are listed.

**Existing Chemical Substances**
Solvent naphtha (petroleum), medium aliph.
Graphite 1-481
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

**GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
Safety Data Sheet
acc. to OSHA HCS

Printing date 08/10/2015 Reviewed on 08/10/2015

Trade name: Drislide Multi-Purpose Lubricant-Liquid

· **Hazard pictograms**

![Pictograms]

GHS02  GHS07  GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
  Solvent naphtha (petroleum), medium aliph.
  Process oil

· **Hazard statements**
  Flammable liquid and vapor.
  Harmful if inhaled.
  May cause cancer.
  Causes damage to the central nervous system through prolonged or repeated exposure.
  May be fatal if swallowed and enters airways.

· **Precautionary statements**
  Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  Use explosion-proof electrical/ventilating/lighting/equipment.
  If swallowed: Immediately call a poison center/doctor.
  If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations**

· **Technical instructions (air):**

<table>
<thead>
<tr>
<th>Class</th>
<th>Share in %</th>
</tr>
</thead>
<tbody>
<tr>
<td>NK</td>
<td>77.0</td>
</tr>
</tbody>
</table>

· **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.

Cortec Corporation does not warranty any translation of this SDS not created by Cortec Corporation.

· **Date of preparation / last revision** 08/10/2015 / -

· **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
  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)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  Flm. Liq. 3: Flammable liquids, Hazard Category 3
  Flm. Liq. 4: Flammable liquids, Hazard Category 4
  Acute Tox. 4: Acute toxicity, Hazard Category 4
  Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
  Carc. 1B: Carcinogenicity, Hazard Category 1B

(Contd. on page 10)
<table>
<thead>
<tr>
<th>Trade name: Drislide Multi-Purpose Lubricant-Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1</td>
</tr>
<tr>
<td>Asp. Tox. 1: Aspiration hazard, Hazard Category 1</td>
</tr>
</tbody>
</table>

(Contd. of page 9)