

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/20/2020

Reviewed on 10/20/2020

1 Identification

- **Product identifier**
- **Trade name:** Driscide Multi-Purpose Lubricant-Liquid
- **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
- Driscide N. America, Inc.
1452 Delashmut Avenue
Columbus, OH 43212
Phone: (614) 291-6900 or (800) 231-6901
- Cortec Corporation
4119 White Bear Parkway
St. Paul, MN 55110 USA
Phone (651) 429-1100
Fax (651) 429-1122
- **Information department:** (614) 291-6900 or (800) 231-6901
- **Emergency telephone number:** 800-231-6901

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

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

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02 GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
Distillates (petroleum), hydrotreated light
Process oil (<3% dimethyl sulfoxide)
- **Hazard statements**
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.

(Contd. on page 2)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: Drislide Multi-Purpose Lubricant-Liquid

(Contd. of page 1)

· Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P331 Do NOT induce vomiting.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Other hazards
· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

64742-47-8	Distillates (petroleum), hydrotreated light	50-100%
	Process oil (<3% dimethyl sulfoxide)	≤2.5%

· Additional information

Molybdenum Disulfide is present at 2.5-10%

This product contains mineral oil CAS no. 64742-52-5, which meets EU requirement of less than 3%(w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP346.

In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR 1910.1200), the specific chemical identity and/or exact percentage composition has been withheld as a trade secret.

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

4 First-aid measures

· Description of first aid measures

- **General information** Immediately remove any clothing soiled by the product.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact**
Immediately rinse with water.
If skin irritation continues, consult a doctor.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing**
DO NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. If affected person is fully conscious, give one glass of water to drink. Never give anything by mouth to an unconscious person. Get immediate medical attention.
- **Information for doctor** Show this safety data sheet to the doctor in attendance.

(Contd. on page 3)

-USA-

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: Drislide Multi-Purpose Lubricant-Liquid

(Contd. of page 2)

- **Most important symptoms and effects, both acute and delayed**
The symptoms and effects are as expected from the hazards shown in section 2. No specific product related symptoms are known.
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, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters** Self-contained breathing apparatus
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

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

Prevent seepage into sewage system, workpits and cellars.

- **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.

- **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**
Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: Drislide Multi-Purpose Lubricant-Liquid

(Contd. of page 3)

· **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

Protect from heat.

Provide adequate precautions, such as electrical grounding and bonding.

· **Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

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

Store away from foodstuffs.

Store away from oxidizing agents.

· **Further information about storage conditions:** None.

· **Storage class 3**

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

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 following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

64742-47-8 Distillates (petroleum), hydrotreated light (50-100%)

RCP-TWA	Long-term value: 1200 mg/m ³
	Total Hydrocarbons

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls** Use local exhaust ventilation to control airborne concentrations below exposure limits.

· **Personal protective equipment**

· **General protective and hygienic measures** Wash hands before breaks and at the end of work.

· **Breathing equipment:**



Use suitable respiratory protective device in case of insufficient ventilation.

Suitable respiratory protective device recommended.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). To determine the appropriate type of respiratory protection that should be used, a hazard assessment should be performed prior to using the product. Environmental conditions such as ventilation and other contaminants may affect the type of respiratory protection that is chosen.

· **Protection of hands:**

Protective gloves

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.

· **Protective Gloves** I.E., Nitrile, Viton, Neoprene

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: Drislide Multi-Purpose Lubricant-Liquid

(Contd. of page 4)

- **Eye protection:** Goggles recommended during refilling.
- **Body protection:** Protective work clothing.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Liquid
Color:	Black
Odor:	Characteristic
Odor threshold:	Not determined.

· **pH-value:** Not determined.

· Change in condition

Melting point/Melting range:	undetermined
Boiling point/Boiling range:	175 °C (347 °F) (*)

· **Flash point:** 46 °C (114.8 °F) (*)

· **Flammability (solid, gaseous)** Not applicable.

· **Ignition temperature:** 210 °C (410 °F) (*)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

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

· Explosion limits:

Lower:	0.5 Vol % (*)
Upper:	6.5 Vol % (*)

· **Vapor pressure at 20 °C (68 °F):** 2 hPa (1.5 mm Hg) (*)

· **Density at 20 °C (68 °F):** 0.8 g/cm³ (6.7 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix

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

· Viscosity:

dynamic: Not determined.

kinematic: Not determined.

· Other information

VOC: 0.72 g/cm³ (6.01 lb/gal)

The above data are typical values and do not constitute a specification.

*Properties have been calculated.

10 Stability and reactivity

- **Reactivity** No further relevant information available.

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: Drislide Multi-Purpose Lubricant-Liquid

(Contd. of page 5)

- **Chemical stability** Stable under recommended storage conditions
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid**
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
- **Incompatible materials:** No further relevant information available.
- **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:**

64742-47-8 Distillates (petroleum), hydrotreated light

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

Dermal	LD50	>2,000 mg/kg (rabbit)
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Process oil (<3% dimethyl sulfoxide)

Oral	LD50	>2,000 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **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:**

64742-47-8 Distillates (petroleum), hydrotreated light

Oral	LL50	25 mg/l (Oncorhynchus mykiss (rainbow trout)) (96 hours)
	LC50	2.9 mg/l (Oncorhynchus mykiss (rainbow trout)) (96 hours)

- **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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: Drislide Multi-Purpose Lubricant-Liquid



· **Other adverse effects** No further relevant information available.

(Contd. of page 6)

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Dispose of in accordance with local, state, and federal regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

<ul style="list-style-type: none"> · UN-Number · DOT, ADR, IMDG, IATA 	UN1993
<ul style="list-style-type: none"> · UN proper shipping name · DOT · ADR · IMDG, IATA 	Flammable liquids, n.o.s. (Distillates (petroleum), hydrotreated light) 1993 FLAMMABLE LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light) FLAMMABLE LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light)
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT 	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids 3
<ul style="list-style-type: none"> · ADR, IMDG, IATA 	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids 3
<ul style="list-style-type: none"> · Packing group · DOT, ADR, IMDG, IATA 	III
<ul style="list-style-type: none"> · Environmental hazards: 	Not applicable.
<ul style="list-style-type: none"> · Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category 	Warning: Flammable liquids 30 F-E, <u>S-E</u> A
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.

(Contd. on page 8)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: Drislide Multi-Purpose Lubricant-Liquid

(Contd. of page 7)

· Transport/Additional information:
· ADR
· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· 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":

UN 1993 FLAMMABLE LIQUID, N.O.S. (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT), 3, III

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
· SARA
· 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.

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65
· Prop 65 - Chemicals known to cause cancer

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity

None of the ingredients is listed.

· Cancerogenity categories
· 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): (Substances not listed)

All ingredients are listed.

· Philippines Inventory of Chemicals and Chemical Substances: (Substances not listed)

All ingredients are listed.

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: Drislide Multi-Purpose Lubricant-Liquid

(Contd. of page 8)

· Chinese Chemical Inventory of Existing Chemical Substances: (Substances not listed)

All ingredients are listed.

· Australian Inventory of Chemical Substances

All ingredients are listed.

· New Zealand Inventory of Chemicals: (Substances not listed)

All ingredients are listed.

· Existing Chemical Substances

Process oil (<3% dimethyl sulfoxide)

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

· Hazard pictograms


GHS02 GHS08

· Signal word Danger

· Hazard-determining components of labeling:

 Distillates (petroleum), hydrotreated light
 Process oil (<3% dimethyl sulfoxide)

· Hazard statements

 H226 Flammable liquid and vapor.
 H304 May be fatal if swallowed and enters airways.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ventilating/lighting/equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 If swallowed: Immediately call a poison center/doctor.
 P331 Do NOT induce vomiting.
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· 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.

· Date of preparation / last revision 10/20/2020 / -

· 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

(Contd. on page 10)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: Drislide Multi-Purpose Lubricant-Liquid

(Contd. of page 9)

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
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 3: Flammable liquids – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1

· *** Data compared to the previous version altered.**

USA