



SAFETY DATA SHEET

Issuing Date 29-Jun-2015

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Revision Number 0

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code(s) 179 & 285

Product Name GEAR GUARD™ (Bulk form)

Synonyms WLD™ (Bulk form), OPEN GEAR LUBE
Contains Trichloroethylene

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Lubricants, Greases and Release Products

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Importer	Company
Jet-Lube (UK) Ltd	Jet-Lube, Inc.
Jet-Lube House	4849 Homestead Rd.
Reform Road	Suite 232
Maidenhead	Houston, Texas 77028
Berkshire UK	TEL: 713-670-5700 (7:00 a.m. - 5 p.m.)
SL6 8BY	
TEL: 44 1628-631913 (8:00 a.m. - 5:00 p.m.)	

For further information, please contact

E-mail Address doldiges@jetlube.com

1.4. Emergency telephone number

Emergency Telephone Number CHEMTREC: +1-703-527-3887 (INTERNATIONAL)
1-800-424-9300 (NORTH AMERICA)

Europe	112
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Section 2. Hazards identification

2.1. - Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 1B

Physical Hazards

None

2.2. Label Elements



Section 5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

None in particular.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.

6.2. Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways, and/ or groundwater. See Section 12 for additional Ecological Information.

6.3. Methods and materials for containment and cleaning up

Small spillage: Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Large spillage: Dike to collect large liquid spills. Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

See Section 12 for additional information.

Section 7. Handling and storage

7.1. Precautions for Safe Handling

Handling

Wash thoroughly after handling. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Ensure adequate ventilation. Wear personal protective equipment.

Hygiene Measures

When using, do not eat, drink or smoke. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

Exposure Scenario

No information available.

Other Guidelines

No information available.

Section 8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical Name	EU	The United Kingdom	France	Spain	Germany
Asphalt 8052-42-4		STEL: 10 mg/m ³ TWA: 5 mg/m ³		VLA-ED: 0.5 mg/m ³	Skin
Graphite 7782-42-5		STEL: 30 mg/m ³ STEL: 12 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³	VME: 2 mg/m ³	VLA-ED: 2 mg/m ³	MAK: 1.5 mg/m ³ MAK: 4 mg/m ³
Trichloroethylene 79-01-6		STEL: 150 ppm STEL: 820 mg/m ³ TWA: 100 ppm TWA: 550 mg/m ³ Skin	TWA: 75 ppm TWA: 405 mg/m ³ STEL: 200 ppm STEL: 1080 mg/m ³	TWA: 10 ppm	Skin
Molybdenum (IV) sulfide 1317-33-5		TWA: 10 mg/m ³		VLA-ED: 10 mg/m ³ VLA-ED: 3 mg/m ³	
Component	Italy	Portugal	The Netherlands	Finland	Denmark
Asphalt 8052-42-4 (50-60)		TWA: 0.5 mg/m ³			TWA: 1 mg/m ³
Graphite 7782-42-5 (15-20)		TWA: 2 mg/m ³		TWA: 2 mg/m ³	TWA: 2.5 mg/m ³
Trichloroethylene 79-01-6 (5-10)		STEL: 100 ppm TWA: 50 ppm		TWA: 10 ppm TWA: 50 mg/m ³ Skin	TWA: 10 ppm TWA: 55 mg/m ³
Molybdenum (IV) sulfide 1317-33-5 (1-5)		TWA: 10 mg/m ³ TWA: 3 mg/m ³			TWA: 10 mg/m ³
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Asphalt 8052-42-4		Skin MAK: 10 mg/m ³	NDSch: 10 mg/m ³ NDS: 5 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 0.5 mg/m ³ STEL: 10 mg/m ³
Graphite 7782-42-5	STEL 10 mg/m ³ MAK: 5 mg/m ³	MAK: 2.5 mg/m ³ MAK: 5 mg/m ³	NDS: 4.0 mg/m ³ NDS: 1.0 mg/m ³ NDS: 6.0 mg/m ³	TWA: 5 mg/m ³ TWA: 2 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 10 mg/m ³ STEL: 4 mg/m ³ STEL: 20 mg/m ³ STEL: 8 mg/m ³	TWA: 10 mg/m ³ TWA: 4 mg/m ³
Trichloroethylene 79-01-6		Skin STEL: 100 ppm STEL: 520 mg/m ³ TWA: 50 ppm TWA: 260 mg/m ³	STEL: 100 mg/m ³ TWA: 50 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 20 ppm STEL: 75 mg/m ³	TWA: 10 ppm STEL: 25 ppm Skin
Molybdenum (IV) sulfide 1317-33-5	STEL 20 mg/m ³ MAK: 10 mg/m ³	MAK: 10 mg/m ³	NDSch: 10 mg/m ³ NDS: 4 mg/m ³	TWA: 10 mg/m ³ STEL: 20 mg/m ³	TWA: 3 mg/m ³ TWA: 0.5 mg/m ³
Chemical Name	European Union	United Kingdom	France	Spain	Germany

Trichloroethylene 79-01-6			4 mg/L blood end of shift at end of workweek Free Trichloroethanol Non-specific (observed after the exposure to other substances) 300 mg/g creatinine urine end of shift at end of workweek Sum of Trichloroacetic acid and Trichloroethanol Non-specific (observed after the exposure to other substances) 100 mg/g creatinine urine end of workweek Trichloroacetic acid Non-specific (observed after the exposure to other substances)	15 mg/L urine end of workweek Trichloroacetic acid 1,1 0.5 mg/L blood end of workweek Trichloroethanol (without hydrolysis) 1,1	5 mg/L whole blood end of shift Trichloroethanol 5 mg/L whole blood end of several shifts Trichloroethanol for long-term exposures 100 mg/L urine end of shift Trichloroacetic acid 100 mg/L urine end of several shifts Trichloroacetic acid for long-term exposures
Component	Italy	Portugal	Netherlands	Finland	Denmark
Asphalt 8052-42-4 (50-60)	(ACGIH:) urine end of shift at end of workweek 1-Hydroxypyrene (fume, with hydrolysis) Nonquantitative				
Trichloroethylene 79-01-6 (5-10)	(ACGIH:) 15 mg/L urine end of shift at end of workweek Trichloroacetic acid Nonspecific (ACGIH:) 0.5 mg/L blood end of shift at end of workweek Trichloroethanol (without hydrolysis) Nonspecific (ACGIH:) blood end of shift at end of workweek Trichloroethylene Semi-quantitative (ACGIH:) end-exhaled air end of shift at end of workweek Trichloroethylene Semi-quantitative				
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Trichloroethylene 79-01-6		5 mg/g whole blood end of shift, and after several shifts (for long-term exposures) Trichloroethanol N 100 mg/L creatinine urine end of shift, and after several shifts (for long-term exposures) Trichloroacetic acid N			
Component	Romania	Slovakia	Latvia	Bulgaria	
Trichloroethylene 79-01-6 (5-10)	300 mg/g Creatinine urine end of work week Trichloroacetic acid + Trichloroethanol				

Derived No Effect Level No information available
Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.
Personal protective equipment
Eye Protection Safety glasses with side-shields.
Skin and Body Protection Wear body protection appropriate to handling activities.
Hand Protection Chemical resistant gloves, Impervious gloves.
Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental Exposure Controls No information available.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Semi-fluid (gel)	Appearance	Black
Odor	Pungent		

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	Neutral	None known
Melting Point/Range	NONE	None known
Boiling Point/Boiling Range	> 315 °C	None known
Flash Point	> 315 °C	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Relative Density	1.13	None known
Water Solubility	Insoluble	None known
Solubility in other solvents	Largely	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	>100 cSt @40°C	None known
Explosive Properties	No data available	
Oxidizing Properties	No data available	

9.2. Other information

VOC Content (%)	6.70000004768372
Flammability Limits in Air	No data available

Section 10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Incompatible products.

10.5. Incompatible materials

Metal oxides

10.6. Hazardous decomposition products

None under normal use.

Section 11. Toxicological information**11.1. Information on toxicological effects****Acute Toxicity****Product Information****Inhalation**

None known.

Eye Contact

Contact with eyes may cause irritation.

Skin Contact

May be harmful in contact with skin.

Ingestion

None known.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Asphalt	5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	
Trichloroethylene	= 4290 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 8000 ppm (Rat) 4 h = 26300 ppm (Rat) 1 h
Molybdenum (IV) sulfide			> 2820 mg/m ³ (Rat) 4 h

Sensitization

No information available.

Mutagenic Effects

Contains a known or suspected mutagen. Suspected of causing genetic defects.

Carcinogenic Effects

Contains a known or suspected carcinogen. May cause cancer.

Reproductive Toxicity

No information available.

Developmental Toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Target Organ Effects

Central nervous system (CNS). Central vascular system (CVS). Eyes. Heart. Kidney. Liver. Respiratory system. Skin.

Aspiration Hazard

No information available.

Section 12. Ecological information**12.1. Toxicity****Ecotoxicity Effects**

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Distillates (petroleum), hydrotreated heavy naphthenic		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)
Trichloroethylene	EC50 96 h: = 450 mg/L (Desmodesmus subspicatus) EC50 96 h: = 175 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: 31.4 - 71.8 mg/L flow-through (Pimephales promelas) LC50 96 h: 39 - 54 mg/L static (Lepomis macrochirus)	EC50 = 0.81 mg/L 24 h EC50 = 115 mg/L 10 min EC50 = 190 mg/L 15 min EC50 = 235 mg/L 24 h EC50 = 410 mg/L 24 h EC50 = 975 mg/L 5 min	EC50 48 h: = 2.2 mg/L (Daphnia magna)

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential.

Chemical Name	Log Pow
Asphalt	6.006
Trichloroethylene	2.29

12.4. Mobility in soil

Adsorbs on soil.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

Section 13. Disposal considerations

13.1. Waste treatment methods**Waste from Residues / Unused Products**

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Other Information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

Section 14. Transport information

IMDG/IMO

14.1. UN-Number	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Marine Pollutant	None.
14.6. Special Provisions	None.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available.

RID

14.1. UN-Number	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None.
14.6. Special Provisions	None.

ADR

14.1. UN-Number	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.

14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None.
14.6. Special Provisions	None.

ICAO

14.1. UN-Number	Not regulated.
14.2. Proper shipping name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None.
14.6. Special Provisions	None.

IATA

14.1. UN-Number	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None.
14.6. Special Provisions	None.

Section 15. Regulatory information

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

International Inventories

TSCA	-
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

No information available

Section 16. Other information

Full text of H-Statements referred to under sections 2 and 3

H350 - May cause cancer if swallowed

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H341 - Suspected of causing genetic defects if inhaled

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

Key literature references and sources for data

www.ChemADVISOR.com/

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Revision Note Initial Release.

This safety data sheet complies with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006

General Disclaimer

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End of Safety Data Sheet