



SAFETY DATA SHEET

1. Identification

Product identifier 100 Gear Oil Extreme Pressure Gear Oil 100
Product Code 301038
Other means of identification
Synonyms Old Product Code 21600; For Package Codes 301038XXXXXX
Product Code 301038

Recommended use of the chemical and restrictions on use

Recommended use Gear Oil
Restrictions on use Not available.

Details of manufacturer or importer

Calumet Branded Products, LLC
GPO Darling Park Towers 2 201 Sussex St. Sydney AU NSW 2000 Australia
2780 Waterfront Pkwy E. Dr., Suite 200 Indianapolis, IN 46214
1 317 328 5660
CHEMTREC: 1800 069 100 (AUS)

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

Label elements, including precautionary statements

Hazard symbol(s) None.
Signal word None.
Hazard statement(s) The mixture does not meet the criteria for classification.

Precautionary statement(s)

Prevention Observe good industrial hygiene practices.
Response Wash hands after handling.
Storage Store away from incompatible materials.
Disposal Dispose of waste and residues in accordance with local authority requirements.

Other hazards which do not result in classification None known.

Supplemental information 96.85% of the mixture consists of component(s) of unknown acute dermal toxicity. 37.05% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

3. Composition/information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic	64742-65-0	60 - < 70
Distillates (petroleum), Hydrotreated Heavy Naphthenic	64742-52-5	0 - < 100
Distillates (petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	0 - < 100
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY	64742-70-7	10 - < 20

Antimony, Tris(dipentylcarbamodithioato)	15890-25-2	1 - < 3
Other components below reportable levels		3 - < 5

4. First-aid measures

Description of necessary first aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Personal protection for first-aid responders	Not available.
Symptoms caused by exposure	Irritation of eyes and mucous membranes. Skin irritation.
Medical attention and special treatment	Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for fire fighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Wear suitable protective equipment.
Hazchem code	None.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
For emergency responders	Not available.

Environmental precautions Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls and personal protection

Control parameters Follow standard monitoring procedures.

Occupational exposure limits

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value
Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2)	TWA	0.5 mg/m ³
Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	TWA	5 mg/m ³
Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7)	TWA	5 mg/m ³
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	TWA	5 mg/m ³
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (CAS 64742-70-7)	TWA	5 mg/m ³

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2)	TWA	0.5 mg/m ³	
Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	TWA	5 mg/m ³	Mist.
Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7)	TWA	5 mg/m ³	Mist.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	TWA	5 mg/m ³	Mist.
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (CAS 64742-70-7)	TWA	5 mg/m ³	Mist.

ACGIH

Components	Type	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	TWA	5 mg/m ³	Inhalable Fraction.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2)	TWA	0.5 mg/m ³	
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (CAS 64742-70-7)	TWA	5 mg/m ³	Inhalable fraction.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Antimony, Tris(dipentylcarbamodithioat o) (CAS 15890-25-2)	TWA	0.5 mg/m3

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Respirable fraction.
Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Respirable fraction.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	TWA	5 mg/m3	Respirable fraction.
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (CAS 64742-70-7)	TWA	5 mg/m3	Respirable fraction.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, for example personal protective equipment (PPE)**Eye/face protection**

Wear safety glasses with side shields (or goggles).

Skin protection**Hand protection**

Wear appropriate chemical resistant gloves.

Other

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties**Appearance****Physical state**

Liquid.

Form

Liquid.

Color

Not available.

Odor

Not available.

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling range

> 572 °F (> 300 °C)

Flash point

309.2 °F (154.0 °C) Pensky-Martens Closed Cup

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	1 % estimated
Flammability limit - upper (%)	50 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.000005 hPa estimated
Density	891.00 kg/m ³
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Negligible
Solubility (other)	Oil
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	500 °F (260 °C) estimated
Decomposition temperature	Not available.
Viscosity	104 cSt
Viscosity temperature	104 °F (40 °C)

Other physical and chemical parameters

Explosive properties	Not explosive.
Flash point class	Combustible IIIB
Oxidizing properties	Not oxidizing.
Percent volatile	0.003 % estimated
Pour point	-22 °F (-30 °C)
Specific gravity	0.89
VOC	0.003 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

11. Toxicological information

Information on possible routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to exposure	Irritation of eyes and mucous membranes. Skin irritation.
Acute toxicity	Not known.

Components	Species	Test Results
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Antimony, Tris(dipentylcarbamoedithioato) (CAS 15890-25-2)

Acute

Dermal

LD50 Rabbit > 16000 mg/kg

Oral

LD50 Rat > 16000 mg/kg

Skin corrosion/irritation Due to partial or complete lack of data the classification is not possible.

Serious eye damage/irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Not applicable.

ACGIH Carcinogens

Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5) A4 Not classifiable as a human carcinogen.

Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7) A4 Not classifiable as a human carcinogen.

Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0) A4 Not classifiable as a human carcinogen.

PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (CAS 64742-70-7) A2 Suspected human carcinogen.

A4 Not classifiable as a human carcinogen.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Due to lack of data the classification is not possible.

Aspiration hazard Based on available data, the classification criteria are not met.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product	Species	Test Results
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100 Gear Oil Extreme Pressure Gear Oil 100

Aquatic

Fish LC50 Fish 129.8355 mg/l, 96 hours estimated

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Mobility in soil This product is miscible in water.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

ADG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

15. Regulatory information

Safety, health and environmental regulations

National regulations This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

Australia Medicines & Poisons Appendix E

Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2)

Australia Medicines & Poisons Appendix G

Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2)

Australia Medicines & Poisons Appendix I

Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2)

Australia Medicines & Poisons Schedule 4

Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2)

Australia Medicines & Poisons Schedule 6

Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2)

Australia National Pollutant Inventory (NPI): Threshold quantity

Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2) 10 TONNES/YR Threshold Category: 1

High Volume Industrial Chemicals (HVIC)

Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7) 1000 - 9999 TONNES See the regulation for additional information.

Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0) 10000 - 99999 TONNES See the regulation for additional information.

International regulations

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date 08-23-2017

Revision date 09-04-2018

Disclaimer Calumet Branded Products, LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Revision information This document has undergone significant changes and should be reviewed in its entirety.