

## Safety Data Sheet

Issue date: 09/11/2015

v 1

Revision Date: 09/11/2015

## 1 Identification

- **Product identifier**

- **Trade name: Limited Slip Gear Treatment**

- **Part number:** 204255

- **Application of the substance / the mixture** gear oil additive

- **Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

- Terraclean, division of, CPS Products Canada Ltd.

- 1324 Blundell Road

- Mississauga, ON, L4Y 1M5

- Canada

- Phone: (905) 615-8620

- email: customerservice@terraclean.net

- **Emergency telephone number:**

- CHEMTREC International +1 (703) 527-3887 (outside the US), 1-800-424-9300 (in the US) 24 hr

## 2 Hazard(s) identification

Classified according to the criteria of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), OSHA Hazardous Communication Standard (29 CFR 1910.1200) and the Canadian Controlled Products Regulations.

- **Classification of the substance or mixture**

Skin Irrit. 2            H315 Causes skin irritation.

Eye Dam. 1            H318 Causes serious eye damage.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- **Label elements**

- **GHS label elements**

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

- **Hazard pictograms**



GHS05   GHS09

- **Signal word** Danger

- **Hazard-determining components of labeling:**

- Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

- **Hazard statements**

- Causes skin irritation.

- Causes serious eye damage.

- Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

- Wear protective gloves / eye protection.

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- Call a POISON CENTER/doctor if you feel unwell.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

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· **vPvB:** Not applicable.**3 Composition/information on ingredients**· **Chemical characterization: Mixtures**· **Description:** Mixture: consisting of the following hazardous components.· **Chemical components:**

68457-79-4	Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Aquatic Acute 2, H401	≤25%
67-56-1	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370	0.1-≤2.5%

· **Additional information:** 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:**

Wash with plenty of soap and water. Remove contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.

· **After eye contact:**

Rinse cautiously with water. Remove contact lenses, if present and easy to do. Get medical attention if eye irritation develops or persists.

· **After swallowing:** Rinse out mouth. Do not induce vomiting. If symptoms persist consult doctor.· **Information for doctor:**· **Most important symptoms and effects, both acute and delayed** See section 11.· **Indication of any immediate medical attention and special treatment needed**

Treat Symptomatically

**5 Fire-fighting measures**· **Extinguishing media**· **Suitable extinguishing agents:**CO<sub>2</sub>, 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** See section 10 for additional information.· **Advice for firefighters**· **Protective equipment:**

Recommend wearing self-contained breathing apparatus. Water may cause splattering.

**6 Accidental release measures**· **Personal precautions, protective equipment and emergency procedures**

Particular danger of slipping on leaked/spilled product.

Avoid eye contact. Avoid repeated or prolonged skin contact.

· **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

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- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
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**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Personal protective equipment must be worn. Avoid contact with skin, eyes or clothing.
  - **Information about protection against explosions and fires:**  
Keep away from ignition sources and high temperature materials.  
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:**  
See section 10 for incompatible materials.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

· **Control parameters**

<b>· Components with limit values that require monitoring at the workplace:</b>	
<b>67-56-1 methanol (0.1-≤2.%)</b>	
PEL (USA)	TWA: 260 mg/m <sup>3</sup> , 200 ppm
REL (USA)	STEL: 325 mg/m <sup>3</sup> , 250 ppm TWA: 260 mg/m <sup>3</sup> , 200 ppm Skin
TLV (USA)	STEL: 328 mg/m <sup>3</sup> , 250 ppm TWA: 262 mg/m <sup>3</sup> , 200 ppm Skin; BEI
EL (Canada)	STEL: 250 ppm TWA: 200 ppm Skin
EV (Canada)	STEL: 325 mg/m <sup>3</sup> , 250 ppm TWA: 260 mg/m <sup>3</sup> , 200 ppm Skin

· **Ingredients with biological limit values:**

<b>67-56-1 methanol (0.1-≤2.%)</b>	
BEI (USA)	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

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- **Additional information:** The lists that were valid during the creation were used as basis.
- **Other Exposure Limits**  
Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH TWA of 5 mg per cubic meter.
- **Exposure controls**
  - **Personal protective equipment:**
    - **General protective and hygienic measures:**  
Clean skin thoroughly immediately after handling the product.  
Do not store food in the working area.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Avoid contact with the eyes and skin.  
The usual precautionary measures for handling chemicals should be followed.  
Do not inhale dust / smoke / mist.
    - **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
    - **Protection of hands:**



Chemical resistant protective gloves

- **Eye protection:**



Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

**9 Physical and chemical properties**

· <b>Information on basic physical and chemical properties</b>	
· <b>General Information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Liquid
· <b>Color:</b>	Amber colored
· <b>Odor:</b>	Petrol-like
· <b>Odour threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Change in condition</b>	
· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Undetermined.
· <b>Flash point:</b>	154 °C
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Ignition temperature:</b>	
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.

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<ul style="list-style-type: none"> <li>· <b>Explosion limits:</b> <ul style="list-style-type: none"> <li>· <b>Lower:</b> Not determined.</li> <li>· <b>Upper:</b> Not determined.</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>· <b>Vapor pressure:</b> Not determined.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Density at 20 °C:</b> 0.91 g/cm<sup>3</sup> <ul style="list-style-type: none"> <li>· <b>Relative density</b> Not determined.</li> <li>· <b>Vapour density</b> Not determined.</li> <li>· <b>Evaporation rate</b> Not determined.</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>· <b>Solubility in / Miscibility with</b> <ul style="list-style-type: none"> <li>· <b>Water:</b> Not miscible or difficult to mix.</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>· <b>Partition coefficient (n-octanol/water):</b> Not determined.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Viscosity:</b> <ul style="list-style-type: none"> <li>· <b>Dynamic:</b> Not determined.</li> <li>· <b>Kinematic at 40 °C:</b> 35 mm<sup>2</sup>/s</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>· <b>Solvent content:</b> <ul style="list-style-type: none"> <li>· <b>Organic solvents:</b> 0.1 %</li> </ul> </li> <li>· <b>Other information</b> No further relevant information available.</li> </ul>

**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** Heat, open flames, sparks.
- **Incompatible materials:** Strong acids. Oxidizing agents.
- **Hazardous decomposition products:**  
Phosphorus compounds  
Phosphorus oxides (e.g. P<sub>2</sub>O<sub>5</sub>)  
Smoke, carbon monoxide, carbon dioxide and other products of incomplete combustion.

**11 Toxicological information**

- **Information on toxicological effects**
  - **Acute toxicity:**

<b>· LD/LC50 values that are relevant for classification:</b>		
Inhalative	LC50/4 h (vapor)	3000 mg/L

<b>67-56-1 methanol</b>		
Oral	LD50	5628 mg/kg (rat)
Dermal	LD50	15800 mg/kg (rabbit)
Inhalative	LC50/4 h (vapor)	3 mg/L (ATE)

- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:**  
Strong irritant with the danger of severe eye injury.  
Causes eye irritation

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- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

- None of the ingredients is listed.

- **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.
- **Ecotoxicological effects:**
  - **Remark:** Toxic for fish
- **Additional ecological information:**
  - **General notes:**  
Generally not hazardous for water  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
- **Other adverse effects** Avoid release to the environment.

**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** UN3082
- **TDG** UN3082

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· **UN proper shipping name**  
 · DOT Environmentally hazardous substances, liquid, n.o.s. (Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts)  
 · TDG Environmentally hazardous substances, liquid, n.o.s. (Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts)  
 · IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts), MARINE POLLUTANT  
 · IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts)

· **Transport hazard class(es)**  
 · DOT, IMDG, IATA  
  
 · Class 9 Miscellaneous dangerous substances and articles  
 · Label 9  
 · TDG  
 · Class 9 Miscellaneous dangerous substances and articles  
 · Label 9

· **Packing group**  
 · DOT, IMDG, IATA III  
 · TDG III

· **Environmental hazards:** Product contains environmentally hazardous substances: Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts  
 · **Marine pollutant:** Yes (DOT)  
 Symbol (fish and tree)  
 · **Special marking (ADR):** Symbol (fish and tree)  
 · **Special marking (IATA):** Symbol (fish and tree)

· **Special precautions for user** Warning: Miscellaneous dangerous substances and articles  
 · **Danger code (Kemler):** 90  
 · **EMS Number:** F-A,S-F

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**  
 · ADR  
 · **Excepted quantities (EQ)** Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging:

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	1000 ml
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(ISO-BU AND PENTYL) ESTERS, ZINC SALTS), 9, III

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **Sara**

<ul style="list-style-type: none"> <li>· <b>Section 355 (extremely hazardous substances):</b></li> </ul> None of the ingredients is listed.
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<ul style="list-style-type: none"> <li>· <b>Section 313 (Specific toxic chemical listings):</b></li> </ul> 67-56-1   methanol
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<ul style="list-style-type: none"> <li>· <b>TSCA (Toxic Substances Control Act):</b></li> </ul> All ingredients are listed.
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- **Proposition 65**

<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause cancer:</b></li> </ul> None of the ingredients is listed.
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<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause reproductive toxicity for females:</b></li> </ul> None of the ingredients is listed.
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<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause reproductive toxicity for males:</b></li> </ul> None of the ingredients is listed.
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<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause developmental toxicity:</b></li> </ul> 67-56-1   methanol
--

- **Carcinogenic categories**

<ul style="list-style-type: none"> <li>· <b>EPA (Environmental Protection Agency)</b></li> </ul> None of the ingredients is listed.
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<ul style="list-style-type: none"> <li>· <b>TLV (Threshold Limit Value established by ACGIH)</b></li> </ul> None of the ingredients is listed.
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<ul style="list-style-type: none"> <li>· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b></li> </ul> None of the ingredients is listed.
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- **Canadian substance listings:**

<ul style="list-style-type: none"> <li>· <b>Canadian Domestic Substances List (DSL)</b></li> </ul> All ingredients are listed.
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· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients is listed.

· **GHS label elements**

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

· **Hazard pictograms**

GHS05 GHS09

· **Signal word** Danger· **Hazard-determining components of labeling:**

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

· **Hazard statements**

Causes skin irritation.

Causes serious eye damage.

Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

Wear protective gloves / eye protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER/doctor if you feel unwell.

**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.

· **Relevant phrases**

H225 Highly flammable liquid and vapor.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H370 Causes damage to organs.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

· **Contact:** Engineering Department· **Issue Date** September 11, 2015· **Revision Changes:** v 1.0 - original SDS release (September 11, 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

ACGIH: American Conference of Governmental Industrial Hygienists

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

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LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - Acute Hazard, Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

NA