

Product Name: CAT AXLE AND BRAKE OIL ADDITIVE  
Revision Date: 25 Mar 2022  
Page 1 of 10

# MATERIAL SAFETY DATA SHEET

**SECTION 1****PRODUCT AND COMPANY IDENTIFICATION**

As of the revision date above, this (M)SDS meets the regulations in New Zealand.

**PRODUCT**

**Product Name:** CAT AXLE AND BRAKE OIL ADDITIVE  
**Product Description:** Chemical Mixture  
**Product Code:** 351010303030  
**Intended Use:** Additive

**COMPANY IDENTIFICATION**

**Supplier:** Terra Cat, Terra Industrial New Zealand Ltd  
16 Branston Street  
P.O. Box 16-168  
Christchurch 8441 New Zealand

<b>24 Hour Emergency Telephone</b>	111
<b>National Poison Control Centre</b>	0800 764 766
<b>Product Technical Information</b>	0800 933 939
<b>General Contact Number</b>	03 983 2333
<b>SDS Internet Address</b>	terraecat.co.nz

**SECTION 2****HAZARDS IDENTIFICATION**

**HAZARD CLASSIFICATION:** HAZARDOUS SUBSTANCE. DANGEROUS GOOD.

This material is hazardous according to regulatory guidelines (see (M)SDS Section 15).

**CLASSIFICATION:**

8.2B 8.3A 6.1E  
9.1A 9.1B

Acute oral toxicant: Category 5. Skin corrosion: Category 1B. Serious eye damage: Category 1.  
Acute aquatic toxicant: Category 1. Chronic aquatic toxicant: Category 2.

**LABEL:****Symbol:**

Product Name: CAT AXLE AND BRAKE OIL ADDITIVE

Revision Date: 25 Mar 2022

Page 2 of 10

**Signal Word:** Danger

**Hazard Statements:**

Health: H303: May be harmful if swallowed. H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage.

Environmental: H400: Very toxic to aquatic life. H411: Toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

Prevention: P260: Do not breathe mist / vapours. P264: Wash skin thoroughly after handling. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER/doctor/physician. P363: Wash contaminated clothing before reuse. P391: Collect spillage.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents and container in accordance with local regulations.

**Contains:** 2-ETHYLHEXYL DIHYDROGEN PHOSPHATE; AMINES, N-(C14-18 AND C16-18 UNSAT'D. ALKYL) TRIMETHYLENEDI; BIS(2-ETHYLHEXYL) HYDROGEN PHOSPHATE

**Other hazard information:**

**PHYSICAL / CHEMICAL HAZARDS**

No significant hazards.

**HEALTH HAZARDS**

High-pressure injection under skin may cause serious damage. May be irritating to nose, throat, and lungs.

**ENVIRONMENTAL HAZARDS**

No additional hazards.

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

This material is defined as a mixture.

**Hazardous Substance(s) or Complex Substance(s) required for disclosure**

Name	CAS#	Concentration*	GHS Hazard Codes
2-ETHYLHEXYL DIHYDROGEN PHOSPHATE	1070-03-7	1 - < 5%	H303, H314(1C)
AMINES, N-(C14-18 AND C16-18 UNSAT'D. ALKYL) TRIMETHYLENEDI	68439-73-6	10 - < 20%	H302, H314(1B), H400(M factor 1)
BIS(2-ETHYLHEXYL) HYDROGEN PHOSPHATE	298-07-7	1 - < 5%	H302, H314(1C), H402

Product Name: CAT AXLE AND BRAKE OIL ADDITIVE

Revision Date: 25 Mar 2022

Page 3 of 10

BIS(2-ETHYLHEXYL)PHOSPHITE	3658-48-8	5 - < 10%	H315, H319(2A), H400(M factor 1), H410(M factor 1)
HYDROTREATED HEAVY NAPHTHENIC DISTILLATE	64742-52-5	50 - < 60%	H304

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Other ingredients determined not to be hazardous.

#### SECTION 4 FIRST AID MEASURES

##### INHALATION

Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device.

##### SKIN CONTACT

Wash contact areas with soap and water. Remove contaminated clothing. Wash carefully behind ears, under nails and in skin folds. Get medical assistance. For those providing assistance, avoid further skin contact to yourself or others. Wear impervious gloves. Launder contaminated clothing separately before reuse. Discard contaminated articles that cannot be laundered. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

##### EYE CONTACT

Flush thoroughly with water for at least 15 minutes. Get immediate medical assistance. If medical assistance is not immediately available, flush an additional 15 minutes.

##### INGESTION

Seek immediate medical attention.

#### SECTION 5 FIRE FIGHTING MEASURES

##### EXTINGUISHING MEDIA

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Inappropriate Extinguishing Media:** Straight streams of water

##### FIRE FIGHTING

**Fire Fighting Instructions:** Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Unusual Fire Hazards:** Hazardous material. Firefighters should consider protective equipment indicated in Section 8.

**Hazardous Combustion Products:** None.

##### FLAMMABILITY PROPERTIES

Product Name: CAT AXLE AND BRAKE OIL ADDITIVE

Revision Date: 25 Mar 2022

Page 4 of 10

**Flash Point [Method]:** >177°C (351°F) [ASTM D-92]

**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D

**Autoignition Temperature:** N/D

**Hazchem Code:** 2X

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

### PROTECTIVE MEASURES

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

For emergency responders: Respiratory protection: respiratory protection will be necessary only in special cases, e.g., formation of mists. Half-face or full-face respirator with filter(s) for dust/organic vapor or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to hydrocarbons are recommended. Gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

### SPILL MANAGEMENT

**Land Spill:** Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Do not get water inside containers. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Prevent entry into waterways, sewer, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

**Water Spill:** Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

### ENVIRONMENTAL PRECAUTIONS

Prevent entry into waterways, sewers, basements or confined areas.

## SECTION 7 HANDLING AND STORAGE

### HANDLING

Avoid breathing mists or vapour. Avoid contact with skin. Avoid contact with eyes. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark

Product Name: CAT AXLE AND BRAKE OIL ADDITIVE

Revision Date: 25 Mar 2022

Page 5 of 10

(ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

**Static Accumulator:** This material is a static accumulator.

## STORAGE

The type of container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabelled containers.

## SECTION 8

## EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMIT VALUES

**Exposure limits/standards (Note: Exposure limits are not additive)**

Substance Name	Form	Limit/Standard			Note	Source	Year
HYDROTREATED HEAVY NAPHTHENIC DISTILLATE	Mist.	STEL	10 mg/m <sup>3</sup>			New Zealand OELs	2020
HYDROTREATED HEAVY NAPHTHENIC DISTILLATE	Mist.	TWA	5 mg/m <sup>3</sup>			New Zealand OELs	2020
HYDROTREATED HEAVY NAPHTHENIC DISTILLATE	Inhalable fraction.	TWA	5 mg/m <sup>3</sup>			ACGIH	2020

**Exposure limits/standards for materials that can be formed when handling this product:** When mists/aerosols can occur the following is recommended: 5 mg/m<sup>3</sup> - ACGIH TLV (inhalable fraction).

### Biological limits

No biological limits allocated.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

### ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions.

Control measures to consider:

Adequate ventilation should be provided so that exposure limits are not exceeded. Eye washes and showers for emergency use.

### PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Product Name: CAT AXLE AND BRAKE OIL ADDITIVE

Revision Date: 25 Mar 2022

Page 6 of 10

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation. Particulate

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

Chemical resistant gloves are recommended. Nitrile, Viton

**Eye Protection:** Chemical goggles and face shield are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

Chemical/oil resistant clothing is recommended.

**Specific 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. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

## ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

<b>SECTION 9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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**Note:** Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

## GENERAL INFORMATION

**Physical State:** Liquid

**Colour:** Yellow

**Odour:** Characteristic

**Odour Threshold:** N/D

## IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

**Relative Density (at 15.6 °C):** 0.914

**Flammability (Solid, Gas):** N/A

**Flash Point [Method]:** >177°C (351°F) [ASTM D-92]

**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D

Product Name: CAT AXLE AND BRAKE OIL ADDITIVE

Revision Date: 25 Mar 2022

Page 7 of 10

**Autoignition Temperature:** N/D  
**Boiling Point / Range:** N/D  
**Decomposition Temperature:** N/D  
**Vapour Density (Air = 1):** N/D  
**Vapour Pressure:** N/D  
**Evaporation Rate (n-butyl acetate = 1):** N/D  
**pH:** N/D  
**Log Pow (n-Octanol/Water Partition Coefficient):** N/D  
**Solubility in Water:** Negligible  
**Viscosity:** 66 cSt (66 mm<sup>2</sup>/sec) at 40°C  
**Molecular Weight:** N/D  
**Oxidizing Properties:** See Hazards Identification Section.

**OTHER INFORMATION**

**Freezing Point:** N/D

**Melting Point:** N/A

<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
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**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.

**MATERIALS TO AVOID:** Strong oxidisers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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**ACUTE TOXICITY**

<u>Route of Exposure</u>	<u>Conclusion / Remarks</u>
<b>Inhalation</b>	
Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Irritation: No end point data for material.	May be irritating to the respiratory tract. The effects are irreversible. Based on assessment of the components.
<b>Ingestion</b>	
Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
<b>Skin</b>	
Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Irritation: No end point data for material.	Corrosive to eyes and skin. May cause permanent damage. Based on assessment of the components.
<b>Eye</b>	
Irritation: No end point data for material.	Irritating and will injure eye tissue. Based on assessment of the

Product Name: CAT AXLE AND BRAKE OIL ADDITIVE

Revision Date: 25 Mar 2022

Page 8 of 10

components.

#### OTHER HEALTH EFFECTS FROM SHORT AND LONG TERM EXPOSURE

Anticipated health effects from sub-chronic, chronic, respiratory or skin sensitization, mutagenicity, reproductive toxicity, carcinogenicity, target organ toxicity (single exposure or repeated exposure), aspiration toxicity and other effects based on human experience and/or experimental data.

None

#### IARC Classification:

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = IARC 1

2 = IARC 2A

3 = IARC 2B

### SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

#### ECOTOXICITY

Material -- Expected to be very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

### SECTION 13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

#### DISPOSAL RECOMMENDATIONS

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

### SECTION 14 TRANSPORT INFORMATION

#### LAND

**Proper Shipping Name:** CORROSIVE LIQUIDS, N.O.S.

**Hazard Class:** 8

**Hazchem Code:** 2X



Product Name: CAT AXLE AND BRAKE OIL ADDITIVE

Revision Date: 25 Mar 2022

Page 9 of 10

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**UN Number:** 1760  
**Packing Group:** II  
**Label(s) / Mark(s):** 8, EHS

#### SEA (IMDG)

**Proper Shipping Name:** CORROSIVE LIQUIDS, N.O.S. (AMINES, N-(C14-18 AND C16-18 UNSAT'D. ALKYL) TRIMETHYLENEDI,BIS(2-ETHYLHEXYL) HYDROGEN PHOSPHATE)  
**Hazard Class & Division:** 8  
**EMS Number:** F-A, S-B  
**UN Number:** 1760  
**Packing Group:** II  
**Label(s):** 8  
**Transport Document Name:** UN1760, CORROSIVE LIQUIDS, N.O.S. (AMINES, N-(C14-18 AND C16-18 UNSAT'D. ALKYL) TRIMETHYLENEDI,BIS(2-ETHYLHEXYL) HYDROGEN PHOSPHATE), 8, PG II

#### AIR (IATA)

**Proper Shipping Name:** CORROSIVE LIQUIDS, N.O.S. (AMINES, N-(C14-18 AND C16-18 UNSAT'D. ALKYL) TRIMETHYLENEDI,BIS(2-ETHYLHEXYL) HYDROGEN PHOSPHATE)  
**Hazard Class & Division:** 8  
**UN Number:** 1760  
**Packing Group:** II  
**Label(s) / Mark(s):** 8  
**Transport Document Name:** UN1760, CORROSIVE LIQUIDS, N.O.S. (AMINES, N-(C14-18 AND C16-18 UNSAT'D. ALKYL) TRIMETHYLENEDI,BIS(2-ETHYLHEXYL) HYDROGEN PHOSPHATE), 8, PG II

<b>SECTION 15</b>
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<b>REGULATORY INFORMATION</b>
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Material is Hazardous as defined by the Hazardous Substances (Health and Safety Reform Revocations) Regulations 2017.

HSNO Approval Number: HSR002606

Product is regulated according to New Zealand Land Transport Rule.

#### REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Listed or exempt from listing/notification on the following chemical inventories :

AIIC, DSL, ENCS, IECSC, ISHL, KECI, TCSI, TSCA

<b>SECTION 16</b>
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<b>OTHER INFORMATION</b>
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N/D = Not determined, N/A = Not applicable

**KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):**

H302: Harmful if swallowed; Acute Tox Oral, Cat 4

H303: May be harmful if swallowed; Acute Tox Oral, Cat 5

H304: May be fatal if swallowed and enters airways; Aspiration, Cat 1

H314(1B): Causes severe skin burns and eye damage; Skin Corr/Irritation, Cat 1B

H314(1C): Causes severe skin burns and eye damage; Skin Corr/Irritation, Cat 1C

H315: Causes skin irritation; Skin Corr/Irritation, Cat 2

Product Name: CAT AXLE AND BRAKE OIL ADDITIVE

Revision Date: 25 Mar 2022

Page 10 of 10

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H319(2A): Causes serious eye irritation; Serious Eye Damage/Irr, Cat 2A

H400: Very toxic to aquatic life; Acute Env Tox, Cat 1

H402: Harmful to aquatic life; Acute Env Tox, Cat 3

H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1

**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:**

No revision information

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DGN: 7225631DNZ (1032641)

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**End of (M)SDS**