

SECTION 1: Identification of the substance / mixture and of the company/undertaking

1.1 Product Identifier

Product form : Mixture / Grease
 Product name : **Corrosion Block Grease®**
 Product code : **25002, 25003, 25014, 25016, 25020, 25060, 25180**

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

Use of the substance / mixture : High performance semi-solid lubricant/grease that is designed for application to sealed bearing, wheel bearing, drag chains, winches, windlasses, and other heavily loaded mechanized parts.

Uses advised against : None unless specified elsewhere in SDS

1.3 Details of the supplier of the safety data sheet

Lear Chemical Research Corporation : T - 00 1 905-564-0018
 PO Box 1040, Station B : F - 00 1 905-564-7077
 Mississauga, Ontario Canada L4Y 3W3 info@learchem.com www.learchem.com/msds

1.4 Emergency telephone number

Emergency Day : 00 1 800-256-2548
 Emergency Night : 00 1 905-890-3466

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Regulation (EC) no. 1272/2008 (CLP) : Not regulated according to EU Directive 67/548/EEC / 1999/45 EC
 EC : Not classified
 CAS : Not classified

Adverse physicochemical, human health and environmental effects

No Additional information available

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms : None
 Signal word : None
 Hazard statements : None
 Precautionary statements : P102 – Keep away from children

2.3 Other hazards

: None known

SECTION 3: Composition /information on ingredients

3.1 Substance

Not applicable

3.2 Mixture

(OEL)

Name	Product identifier	Concentration*	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1H-IMIDAZOLE-1-ETHANOL, 4,5-DIHYDRO-2-NORTALL-OIL ALKYL DERIVS	(CAS No) 61791-39-7 (EC No) 263-171-2	0.1 - < 1%	Skin Corr. 1B H314
AMINES, C12-14-ALKYL, ISOCTYL PHOSPHATES	(CAS No) 68187-67-7 (EC No) 269-119-5	5 – 15	Skin Irrit. 2 H315

Note – any classification in brackets is a GHS building block that was not adopted by the EU in the CLP regulation (No 1272/2008) and therefore is not applicable in the EU or in non-EU countries which have implemented the CLP regulation and is shown for informational purposes only.

Name	Product identifier	Concentration*	DSD Symbols/Risk Phrases
AMINES, C12-14-ALKYL, ISOOCTYL PHOSPHATES	(CAS No) 68187-67-7 (EC No) 269-119-5	5 – 15	Xi:R38

All concentrations are percent by weight. See Section 16 for full text of the R-phrases and H-statements.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Inhalation : Under normal conditions of intended use, this mixture is not expected to be an inhalation hazard.
- Skin contact : Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. 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 the injury.
- Eye contact : Flush thoroughly with water. If irritation occurs, get medical assistance.
- Ingestion : First aid is normally not required. Seek medical attention if discomfort occurs.

4.2 Most important symptoms and effects, both acute and delayed

- : Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.

4.3 Indication of any immediate medical attention and special treatment needed

- : Unlikely to be required but if necessary treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : CO², dry chemical, foam, water spray
- Unsuitable extinguishing media : Water jet which may spread flames

5.2 Special hazards arising from the substance or mixture

- Fire hazard : No unusual fire hazards.
- Explosion hazard : No unusual explosion hazards.
- Reactivity : None to our knowledge.

5.3 Advice for firefighters

- Firefighting 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 protect personnel.
- Explosion hazard : No unusual explosion hazards.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Notification procedures : In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
- Personal precautions : Eliminate sources of ignition. Keep unnecessary personnel away from spill slip hazard.

- 6.2 Environmental precautions : Prevent spill into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

- Land - small spill : Wipe up spills with absorbent cloth and clean surface with approved soap.
- Land - large spill : Stop or reduce flow with barricades – absorb spills using dry clay, commercial sorbents. Collect residue into suitable container for disposal. May be drained into floor drains equipped with Oil Interceptors. Never return contaminated spilled liquid to original container.
- Water spill : Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Skim from surface.

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.

- 6.4 Reference to other sections : See Section(s): 8, 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard.
- Static Accumulator : This product is not a static accumulator.

7.2 Conditions for safe storage, including any incompatibilities

Do not store in open or unlabeled containers.

- 7.3 Specific end use(s) : Section 1 informs about identified end-uses. No industrial or sector specific guidance available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters : No special requirements under ordinary conditions of use and with adequate ventilation.

8.2 Exposure controls

- Appropriate engineering controls : Does not require any specific or particular technical measures.
- Personal protective equipment : None normally needed/required.
- Eye protection : None normally required, unless operator is using high-pressure spray equipment or splashing is likely.
- Hygienic practices : Wash hands/face with soap and water after use. Launder soiled clothing.
- Ventilation : Provide sufficient general or mechanical ventilation to maintain exposure below flammable limits.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Blue semi-solid
Odor	: Characteristic
Odor threshold	: Not established
pH	: Not technically feasible
Melting point/ Freezing point	: No data available
Boiling point / boiling range	: > 330°C / 626°F
Flash point	: > 204°C / 399°F [Est for Oil, ASTM D-92 (COC)]
Evaporation rate	: No data available
Flammability (solid, gas)	: Not technically feasible
Upper flammability limit	: UEL: No data available
Lower flammability limit	: LEL: No data available
Vapor pressure	: < 0.013 kPa (0.1 mm Hg) at 20°C [Estimated]
Vapor density	: No data available
Relative gravity	: 0.884 [test method unavailable]
Water solubility	: negligible
Solubility in other solvents	: soluble in naphtha
Partition coefficient n-octanol/water	: > 3.5 [Estimated]
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: 95 cSt (95 mm ² /sec) @40°C [test method unavailable]
Explosive properties	: None
Oxidizing properties	: None

9.2 Other information

DMSO Extract (mineral oil only), IP-346	: < 3 %wt
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SECTION 10: Stability and reactivity

10.1 Reactivity	: Stable under normal conditions.
10.2 Chemical stability	: Stable under normal conditions.
10.3 Possibility of hazardous reactions	: No hazardous reactions known if used for intended purpose.
10.4 Conditions to avoid	: Excessive heat. High energy sources of ignition.
10.5 Incompatible materials	: Strong oxidizers.
10.6 Hazardous decomposition products	: Material does not decompose at ambient temperatures.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	: Not Classified
Skin corrosion/irritation	: Mildly irritating to skin with prolonged exposure. Based on assessment of the components.
Serious eye damage/irritation	: Non irritant
Respiratory or skin sensitization	: Not expected to be a skin sensitizer. Based on physio-chemical properties of the mixture.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT – single exposure	: Not classified
STOT – repeated exposure	: Not classified
Aspiration hazard	: Not expected to be an aspiration hazard. Based on physio-chemical properties of the mixture.

11.2 Other information

Contains

: Base oil severely refined: Not carcinogenic in animal studies. Representative mixture passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

SECTION 12: Ecological information

Information given is based on data available for the mixture, the components of the mixture, and similar mixtures.

- 12.1 Toxicity** : Mixture – Not expected to be harmful to aquatic organisms.
- 12.2 Persistence and degradability** : Base oil component – Expected to be inherently biodegradable.
- 12.3 Bio accumulative potential** : Base oil component – Has the potential to bio accumulate, however metabolism or physical properties may reduce the bio concentration or limit bioavailability.
- 12.4 Mobility in soil** : Base oil component – Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.
- 12.5 Results of PBT and vPvB assessment** : This mixture does not meet the PBT / vPvB criteria of REACH regulation, Annex XIII
- 12.6 Other adverse effects** : No adverse effects are expected.

SECTION 13: Disposal considerations

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

- 13.1 Waste treatment methods** : Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperature to prevent formation of undesirable combustion products.

13.2 Additional information

Regulatory disposal information : European Waste Code: 12 01 12*

Note: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

This material is considered as hazardous waste pursuant to Directive 91/689/EEC on hazardous waste, and subject to the provisions of that Directive unless Article 1(5) of the Directive applies.

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, recover, or disposal through suitable qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURES, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPOLDE AND CAUSE INJURY OR DEATH.

SECTION 14: Transport information

14.1 UN Number	: Not regulated
14.2 – 14.6	
Land (ARD/RID)	: Not regulated for Land Transport
Inland Waterways (ADNR/ADN)	: Not regulated for Inland Waterway Transport
Sea (IMDG)	: Not regulated for Sea Transport according to IMDG-Code
Air (IATA)	: Not regulated for Air Transport

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not classified according to Annex II

SECTION 15: Regulatory information

This mixture was classified in compliance with GHS Directives and is not known to be classified on any EC lists or other source literature.

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Listed or exempt from listing/notification on the following chemical inventories: AICS, IECSC, KECI, TSCA

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

Applicable EU Directives and regulations:

1907/2006 [...on the registration, evaluation, authorization and restriction of chemicals...and amendments thereto]

689/2008/EC [...concerning the export and import of dangerous substances and amendments thereto]

1272/2008 [on classification, labelling and packaging of substances and mixtures... and amendments thereto]

Refer to the relevant EU/national regulation for details of any actions or restriction required

SECTION 16: Other information

Data Sources	: Regulation (EU) 2016/918 amending Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006. Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH), according to (EU) 2016/918
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Legend

PBT	: Persistent, Bio accumulative and Toxic
vPvB	: very Persistent and very Bio accumulative
VOC	: Volatile Organic Compounds
ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	: International Maritime Code for Dangerous Goods
IATA	: International Air Transport Association

Risk Phrases contained in Section 3 of this document (for information only)

R38 : Irritating to the skin

H-codes contained in Section 3 of this document (for information only)

H314 : Causes severe skin burns and eye damage

H315 : Causes skin irritation

Lear Chemical believes all the information provided is true and accurate. Lear Chemical and its affiliates assume no responsibility for injury to anyone caused by the product if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Lear Chemical Research Corp. and affiliates assume no responsibility to injury to anyone caused by abnormal use of the mixture even if reasonable safety procedures are followed. Furthermore, vendor and third persons assume the risk in their use of the mixture.