

**SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product Name:** Corrosion Block® GREASE**Product Code:** 25002, 25003, 25014, 25016, 25020, 25060, 25180**Use of Substance/Preparation:** Corrosion Block® GREASE**Uses advised against:** None unless specified elsewhere in this SDS

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Appearance: Marine Blue **Physical State:** Solid **Odor:** Aromatic
Health: Not Classified
Environmental: Not Classified
OSHA Defined: Not Classified
Labels: Not regulated according to EU Directive 67/548/EEC / 1999/45 EC

PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

HEALTH HAZARDS

Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

ENVIRONMENTAL HAZARDS

No significant hazards. Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.

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.

Hazards not otherwise classified (HNOC)-Not Applicable**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS****SUBSTANCES** Not Applicable. This material is regulated as a mixture**MIXTURES** This material is defined as a mixture.**Reportable hazardous substance(s) complying with the classification criteria and/or with an exposure limit (OEL)**

Name	CAS#	EC#	Registration#	Concentration*	GHS/CLP classification
1H-IMIDAZOLE-1-ETHANOL, 4,5-DIHYDRO-, 2-NORTALL-OIL ALKYL DERIVS	61791-39-7	263-171-2	NE	0.1 - < 1%	Skin Corr. 1B H314
AMINES, C12-14-ALKYL, ISOCTYL PHOSPHATES	68187-67-7	269-119-5	NE	1 - < 5%	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	CAS#	EC#	Registration#	Concentration*	DSD Symbols/Risk Phrases
AMINES, C12-14-ALKYL, ISOOCTYL PHOSPHATES	68187-67-7	269-119-5	NE	1 - < 5%	Xi;R38

* All concentrations are percent by weight.

Note: See (M)SDS Section 16 for full text of the R-Phrases. See (M)SDS Section 16 for full text of hazard statements.

SECTION 4 - FIRST AID MEASURES

INHALATION

Under normal conditions of intended use, this material 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 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.

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.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

The need to have special means for providing specific and immediate medical treatment available in the workplace is not expected.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

Suitable Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Un-Suitable Extinguishing Media: Water Jet which might spread flames

Special Hazards From Burning: Smoke, Fume, Incomplete combustion products, Oxides of carbon, Sulphur oxides, Aldehydes

Fire Fighting Procedures: 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.

General Fire Hazards: No unusual fire or explosion hazards

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Eliminate sources of ignition. Stop leak if you can do it without risk. Keep unnecessary personnel away from spill slip hazard.

Small Spill: Wipe up spills with absorbent cloth and clean surface with approve soap.

Large Spill: Stop or reduce flow with barricades – Absorb spills using dry clay, commercial sorbents. Collect residue into suitable



container for disposal. Material may be drained into floor drains equipped with Oil Interceptors. Never return contaminated spilled liquid to original container. See Section 13 for Disposal Considerations.

Environmental Precautions: Prevent spill from entry into waterways, sewers, basements or confined areas.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Land Spill: Scrape up spilled material with shovels into a suitable container for recycle or disposal.

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.

REFERENCES TO OTHER SECTIONS

See Sections 8 and 13.

SECTION 7 - HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities:

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard.

Static Accumulator: This material is not a static accumulator.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Do not store in open or unlabeled containers.

SPECIFIC END USES: Section 1 informs about identified end-uses. No industrial or sector specific guidance available.

Incompatible Products: None known

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION:

Appropriate Engineering Controls:

Ventilation: Provide sufficient General or Mechanical ventilation to maintain exposure below flammable limits.

Individual 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.

Respiratory Protection: None normally needed - Unless atomizing in enclosed space, then use approved NIOSH organic, mist/vapor respirator. If exposure limits are exceeded or irritation, headache, nausea, or dizziness is experienced, ventilation and evacuation may be required.

Protective Gloves: None normally required. Excessive contact may cause drying, chapping of skin, may cause redness of eyes and tearing.

Eye Protection: None normally required, unless operator is using high-pressure spray equipment or splashing is likely.

Other Protective Clothing: None normally required.

Work/Hygienic Practices: 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.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

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.

Physical and Chemical Properties

Physical State:	Solid
Appearance:	Blue
Odor:	Characteristic
Odor Threshold:	Not established
Property	Values
pH	Not technically feasible
Melting / freezing point	>250°C (482°F) [test method unavailable] / No data available
Boiling point / boiling range	> 330°C (626°F) [Estimated]
Flash Point	>204°C (399°F) [EST. FOR OIL, ASTM D-92 (COC)]
Evaporation Rate	No data available
Flammability (solid, gas)	Not technically feasible
Flammability Limit in Air	Solvent Component Only
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
Specific 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
Kinematic viscosity	95 cSt (95 mm ² /sec) at 40°C [test method unavailable]
Dynamic viscosity	No data available
VOC Content (%)	No data available

DMSO Extract (mineral oil only), IP-346: < 3 %wt

**SECTION 10 - STABILITY AND REACTIVITY **

REACTIVITY: See sub-sections below.

CHEMICAL STABILITY: Material is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

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

INCOMPATIBLE MATERIALS: Strong oxidizers

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



SECTION 11 - TOXICOLOGICAL INFORMATION

Hazard Class	Conclusion / Remarks
Inhalation	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.
Ingestion	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Skin	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Skin Corrosion/Irritation: No end point data for material.	Mildly irritating to skin with prolonged exposure. Based on assessment of the components.
Eye	
Serious Eye Damage/Irritation: No end point data for material.	May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.
Sensitisation	
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.
Skin Sensitization: No end point data for material.	Not expected to be a skin sensitizer. Based on assessment of the components.
Aspiration: Data available.	Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.
Germ Cell Mutagenicity: No end point data for material.	Not expected to be a germ cell mutagen. Based on assessment of the components.
Carcinogenicity: No end point data for material.	Not expected to cause cancer. Based on assessment of the components.
Reproductive Toxicity: No end point data for material.	Not expected to be a reproductive toxicant. Based on assessment of the components.
Lactation: No end point data for material.	Not expected to cause harm to breast-fed children.
Specific Target Organ Toxicity (STOT)	
Single Exposure: No end point data for material.	Not expected to cause organ damage from a single exposure.
Repeated Exposure: No end point data for material.	Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components.

OTHER INFORMATION

Contains:

Base oil severely refined: Not carcinogenic in animal studies. Representative material 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 sensitising in test animals.

SECTION 12- ECOLOGICAL INFORMATION

Eco toxicity

Material -- Not expected to be harmful to aquatic organisms.

Persistence and Degradability**Biodegradation:**

Base oil component -- Expected to be inherently biodegradable

Bioaccumulation

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

PERSISTENCE, BIOACCUMULATION AND TOXICITY FOR SUBSTANCE(S)

This product is not, or does not contain, a substance that is a PBT or a vPvB.

Other adverse effects

No information available.

**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.

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 temperatures to prevent formation of undesirable combustion products.

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 that Directive applies.

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 (ADR/RID): 14.1-14.6 Not Regulated for Land Transport

INLAND WATERWAYS (ADNR/ADN): 14.1-14.6 Not Regulated for Inland Waterways Transport

SEA (IMDG): 14.1-14.6 Not Regulated for Sea Transport according to IMDG-Code

SEA (MARPOL 73/78 Convention - Annex II):

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

AIR (IATA): 14.1-14.6 Not Regulated for Air Transport

SECTION 15 - REGULATORY INFORMATION

This preparation 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 FOR THE SUBSTANCE OR MIXTURE****Applicable EU Directives and Regulations:**

1907/2006 [... on the Registration, Evaluation, Authorisation 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 restrictions required by the above Regulation(s)/Directive(s).

SECTION 16 – OTHER INFORMATION**KEY TO THE RISK CODES CONTAINED IN SECTION 2 AND 3 OF THIS DOCUMENT (for information only):**

R38; Irritating to skin.

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

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

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

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 material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Lear Chemical Research Corp. and affiliates assume no responsibility for injury to anyone caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendor and third persons assume the risk in their use of the material.

Date Issued: January 2017

Prepared by: Lear Chemical Research Corp.