MICROKOTE ALUMINUM ANTI-SEIZE

6 oz Self Dispensing Piston Can
Anti-Seize Compound

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Number: 9533, 9538

Supplier: Tifco Industries
P.O.Box 40277
Houston, Tx 77240
Phone: 1-800-868-4326
Web: www.tifco.com

Emergency Phone Number: ChemTel: 800-255-3924
Product Use: Anti-Seize Compound
Restriction on Use: None known

SDS Date of Preparation: April 9, 2019

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification (Hazcom 2012):
Not Hazardous in accordance with OSHA Haz. Com. Standard 29 CFR 1910.1200.

Label Elements:

Signal Word: Warning

Hazard Phrases:
Gases under pressure.
Pressurized container; Do not pierce or burn even after use.

Precautionary Phrases:
Keep out of reach of children.
Pressurized container; Do not pierce or burn, even after use.
Wash with soap and water thoroughly after handling.

Response:
IF ON SKIN: Wash with soap and water
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF IN EYES: Remove contact lenses if present and easy to do, continue rinsing.

Storage: Store at temperatures not exceeding 122°F (50°C)

Disposal: Dispose of in accordance with local, state, and federal regulations.

Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	%
Synthetic Base Oil	NJTSRN#1210-01	50-70
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-30
Graphite	7782-42-5	10-20
Aluminum	7429-90-5	10-20
Rust inhibitor	Trade Secret	1-3
Nitrogen*	7727-37-9	1-5

*Nitrogen is contained in the can and is not released when the product is expelled.

The specific identity and/or exact percentage of composition has been withheld as a trade secret. The propellant in this product does not discharge when the product is used.

SECTION 4: FIRST AID MEASURES

Eye: Flush eyes with water, holding the eyelids apart. Get medical attention if irritation develops or persists.

Skin: Wash thoroughly with plenty of water. Get medical attention if irritation persists.

Inhalation: Remove to fresh air and keep comfortable for breathing. If irritation occurs, get medical attention.

Ingestion: If large amounts ingested, seek medical attention.

Most Important symptoms and effects, both acute and delayed: None known.

Indication of any immediate medical attention and special treatment needed: Immediate medical attention generally not required.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable and Unsuitable Extinguishing Media: Use water spray or fog, foam, carbon dioxide or dry chemical.

Special Hazards Arising from the Chemical: This compound will not burn unless it is pre-heated. Water fog may be used to cool the containers but do not spray directly into large containers of burning liquids as frothing may occur. Dense smoke and noxious or toxic fumes may be generated in a fire. The thermal decomposition products are highly dependent upon the combustion conditions. Noxious or toxic fumes may be generated, some of which may be toxic or irritating.

Special Equipment and Precautions for Fire-Fighters: Wear NIOSH approved positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate personal protective equipment. Use caution: slip hazard.

Environmental Hazards: Report spills and releases as required to appropriate authorities.

Methods and Material for Containment and Cleaning Up: Because of its viscous nature, this product is not expected to leak or spill. Collect liquid spill with an inert absorbent material and place into a suitable container for disposal. Clean area thoroughly with mineral spirits.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes. Avoid prolonged skin contact Do not transfer to unlabeled containers. Do not puncture or incinerate empty containers.

Conditions for Safe Storage, Including any Incompatibilities: Store away from extreme heat and open flames. Store away from oxidizers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Exposure Limits
Synthetic Base Oil	5 mg/m3 TWA ACGIH TLV (inhalable) 5 mg/m3 TWA OSHA PEL
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m3 TWA ACGIH TLV (inhalable) 5 mg/m3 TWA OSHA PEL
Graphite	2 mg/m3 TWA ACGIH TLV (respirable) 15 mg/m3 TWA OSHA PEL (total dust) 5 mg/m3 TWA OSHA PEL (respirable fraction)
Aluminum	1 mg/m3 TWA ACGIH TLV (respirable) 15 mg/m3 TWA OSHA PEL (total dust) 5 mg/m3 TWA OSHA PEL (respirable fraction)
Rust inhibitor	None Established

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the exposure limits. If the product is used at high temperatures, local exhaust ventilation may be required.

Individual Protection Measures:
Respiratory Protection: In operations where the occupational exposure limits are exceeded, a NIOSH approved respirator with organic vapor/particulate cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

Skin Protection: Impervious gloves such as rubber or nitrile recommended where needed to avoid prolonged skin contact .

Eye Protection: Safety glasses or goggles recommended where needed to avoid eye contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Aluminum colored paste	**Vapor Density (air = 1):** Not available
Odor: Slight odor	**Specific Gravity:** 1.05
Odor Threshold: Not established	**Water Solubility:** Not soluble
pH: Not available	**Octanol/Water Partition Coefficient:** Not available
Melting Point/Freezing Point: Not available	**Autoignition Temperature:** Not available
Boiling Point: >500ºF	**Decomposition Temperature:** Not available
Flash Point: >350°F	**Viscosity:** Not available

Evaporation Rate: Not available	**Explosion Properties:** None
Flammable Limits: **LEL**: Not established **UEL:** Not established	**Oxidizing Properties:** Not oxidizing
Vapor Pressure: Not established	**Aerosol Fire Protection Level:** Not applicable
VOC Content: Not available	**Flammability (solid, gas):** Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: None known

Conditions to Avoid: Use with strong oxidizing chemicals such as concentrated acids.

Incompatible Materials: Avoid strong oxidizing agents and acids.

Hazardous Decomposition Products: The thermal decomposition products are highly dependent upon the combustion conditions. Noxious or toxic fumes may be generated, some of which may be toxic or irritating.

SECTION 11: TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eye: May cause mild irritation.

Skin: Prolonged contact may cause irritation and drying of the skin.

Inhalation: No adverse effects expected at ambient temperatures. Inhalation of vapors and fumes from thermal decomposition may cause respiratory irritation and metal fume fever with symptoms of fever and chills.

Ingestion: Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea.

Chronic Hazards: Prolonged inhalation of thermal decomposition products may result in lung damage.

Carcinogen Status: None of the components of this product are listed as carcinogens by IARC, NTP or OSHA.

Acute Toxicity Values:
Graphite: Oral rat LD50 > 2000 mg/kg, inhalation rat LC50 > 2 mg/L
Aluminum: Oral rat LD50 > 15900 mg/kg, inhalation rat LC50 > 0.888 mg/L
Distillates (petroleum), hydrotreated heavy naphthenic: Oral rat LD50 > 5000 mg/kg, inhalation rat LC50: 2.18 mg/L, dermal rabbit LD50 > 2000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:
Graphite: Danio rerio LC50 > 100 mg/L/96hr
Aluminum: Lepomis cyanellus NOEC > 50 mg/L/96hr
Distillates (petroleum), hydrotreated heavy naphthenic: Pimephales promelas LL50 > 100 mg/L/96hr.

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: None known

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, regional and national regulations.

SECTION 14: TRANSPORT INFORMATION

DOT
Proper Shipping Name: aerosols
DOT Hazard Class: 2.2
UN Number: UN 1950
Packing Group: None

IMDG
Shipping Description: Aerosols
Hazard Class: 2.2
Identification Number: UN 1950
Packing Group: none

ICAO/IATA
Shipping Description: Aerosols, non-flammable
ID Number: UN 1950
Hazard Class: 2.2
Packing Group: None

SECTION 15: REGULATORY INFORMATION

Safety, health, and environmental regulations specific for the product in question.

CERCLA Hazardous Substances (Section 103)/RQ: This product is not subject to reporting requirements under CERCLA. However, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.
SARA Hazard Category (311/312): Not Hazardous

SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313: Aluminum, 10-20%

EPA TSCA Inventory: All of the components of this product are listed on the TSCA inventory.

CALIFORNIA PROPOSITION 65: This product is not known to contain listed chemicals.

SECTION 16: OTHER INFORMATION

Revision Summary: New format to comply with OSHA Hazcom 2012