

Material Safety Data Sheet

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SECTION I - PRODUCT IDENTIFICATION

Rowley Co. - Lubricant (Stock # AS65)
Intended use - Grease

SECTION II – HAZARDOUS/INFORMATION OF INGREDIENTS

Composition/Information on Ingredients

Chemical Name	Case Number	Concentration*
Zinc Dialkyl Dithiophosphate	68457-79-4	1 – 5 %

*All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

SECTION III - PHYSICAL DATA

Boiling Range:	Not determined
Vapor Density:	(air = 1), not determined
Odor:	Characteristic
Odor Threshold:	Not determined
Appearance:	Color- tan
Evaporation Rate:	(n-butyl acetate = 1), not determined
Solubility In H ₂ O:	Negligible
Freeze Point:	Not determined
Vapor Pressure:	<0.013 kPa (0.1 mm Hg) at 20°C
pH @ 0.0%:	Not applicable
Physical State:	Solid
Viscosity:	460 cSt (460 mm/sec) at 40°C / 46.5 cSt (46.5 mm/sec) at 100°C
Relative Density:	(at 15°C), 1
Log Pow:	(n- Octanol/Water Partition Coefficient), > 3.5

NOTE: Most physical properties above are for the oil component in the material.

SECTION IV – FIRE FIGHTING MEASURES

Flash Point:	[Method]: >204°C (400°F) [EST.FOR OIL, ASTM D-92 (COC)]
Flammable Limits:	(Approx. volume % in air): LEL: Not determined, UEL: Not determined
Autoignition Temperature:	Not determined
Extinguishing Media:	Use water fog, foam, dry chemical or carbon dioxide (CO ₂) to extinguish flames. Straight streams of water.
Inappropriate Extinguishing Media:	Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters 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.
Fire Fighting Instructions:	

Hazardous Combustion Products:

Smoke, fume, sulfur oxides, aldehydes, oxides of carbon, incomplete combustion products.

SECTION V – HAZARDS IDENTIFICATION

Emergency Overview:.....

This material is not considered to be hazardous according to regulatory guidelines. (see (M)SDS Section 15).

Potential Health Effects:

Low order of toxicity and no adverse effects due to inhalation are expected. High pressure injection under skin may cause serious damage. Harmful to aquatic organism, may cause long term adverse effects in the aquatic environment. This material should not be used for any other purposes than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potent

Environmental Hazards:

Chronic Hazards:

NFPA Hazard ID: Health -0, Flammability -1, Reactivity -0

HMIS Hazard ID: Health -0, Flammability -1, Reactivity -0

SECTION VI – STABILITY AND REACTIVITY

Conditions to Avoid:.....

Excessive heat, high energy sources of ignition.

Material to Avoid

Strong oxidizers

Hazardous Decomposition Products:

Material does not decompose at ambient temperatures.

Hazardous Polymerization:.....

Will not occur.

Stability:

Material is stable under normal conditions.

SECTION VII – ACCIDENTAL RELEASE MEASURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. U.S. regulations require reporting releases of this material to the environment which exceed the reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

Spill Management-

Land Spill: Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle disposal.

Water Spill: Confine the spill immediately with booms. Stop leak if you can do it without risk. 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.

Environmental Precautions-

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

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

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

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 protection is ordinarily required under normal conditions of use and with adequate ventilation. 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/vapor 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. Work conditions can greatly effect glove durability; inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: No protection is ordinarily required under normal conditions of use.

Eye Protection:

If contact is likely, safety glasses with side shields are recommended.

Other Protective Equipment:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

SECTION IX – HANDLING AND STORAGE

Handling:.....

Prevent small spills and leakage to avoid slip hazard.

Static Accumulator.....

Not applicable

Storage Precaution:

Do not store in open or unlabelled containers.

SECTION X - FIRST AID MEASURES

Eye Contact:

Flush thoroughly with water. If irritation occurs, get medical assistance.

Skin Contact:

Wash contact areas with soap and water. 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. At ambient/normal handling temperatures, minimal or no irritation due to inhalation of vapor/mist is expected.

Inhalation:

First aid is normally not required. Seek medical attention if discomfort occurs.

Ingestion:

SECTION XI – TRANSPORTATION INFORMATION

Land (DOT).....
Land (TDG).....
Sea (IMDG).....

Air (IATA).....

Not regulated for land transport
Not regulated for land transport
Not regulated for Sea transport according to
IMDG-Code
Not regulated for air transport

SECTION XII – TOXICOLOGICAL INFORMATION

Toxicological Properties

Inhalation.....
Ingestion.....

Skin.....

Eye.....

Chronic/Other Effects.....

No end point data
Toxicity (Rat): LD50 > 2000 mg/kg, minimally
toxic.
Toxicity (Rabbit): LD50 > 2000 mg/kg, minimally
toxic. Irritation (Rabbit) negligible irritation to skin
at ambient temperatures.
Irritation (Rabbit) may cause mild, short lasting
discomfort to eyes.
Contains synthetic base oils: not expected to
cause significant health effects under conditions
of normal use, based on laboratory studies with
the same or similar materials. Not mutagenic or
genotoxic. Not sensitizing in test animals and
humans.

SECTION XIII – ECOLOGICAL INFORMATION

Ecotoxicity.....

Mobility.....

Material- expected to be harmful to aquatic
organisms. May cause long term adverse effects
in the aquatic environment.
Base oil component- low solubility and floats and
is expected to migrate from water to the land.
Expected to partition to sediment and waste
water solids.

SECTION XIV – 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

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

RCRA information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes.

Empty Container Warning

PRECAUTIONARY LABEL TEXT: Empty containers may retain residue and can be dangerous. DO NOT PRESSURIZE, 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. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Section XV – REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD

When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING

TSCA

Special cases: ELINCS, restrictions apply

EPCRA

This material contains no extremely hazardous substances

SARA (313/312) REPORTABLE HAZARD CATEGORIES

None

SARA (313) TOXIC RELEASE INVENTORY

Chemical Name	CAS Number	Typical Value
Zinc Dialky	68457-79-4	1 – 5%
Dithiophosphate		

The following Ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
Diphenylamine	122-39-4	5, 9, 18
Zinc Dialkyl	68457-79-4	13, 15, 17
Dithiophosphate		
Zinc Neodecanoate	27253-29-8	15

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code Key: CARC= Carcinogen; REPRO= Reproductive

*EPA recently added new chemical substances to its TSCA section 4 test rules. Please contact the supplier to confirm whether the ingredients in this product currently appear on a TSCA 4 or TSCA 12b list.

SPECIAL INFORMATION

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations. The environmental information and hazardous materials identification system have been included by Rowley Company, LLC in order to provide additional health and hazard classification information. The ratings recommend are based upon the criteria supplied by the developers of these ratings systems, together with Rowley Company, LLC interpretation of the available data. Proper personal protective equipment varies widely with conditions of use and anticipated exposure. We recommend that a supervisor or other qualified person determine proper PPE for intended use.