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Material Safety Data Sheet

Polishing Compound

Tripoli

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Section I - Hazardous Ingredients / Identity Information

Hazardous Components, (Specific Chemical Identity, Common Name(s))	%	Range	CAS#	OSHA PEL 15mg/M3 (total dust)	ACGIH TLV 10mg/M3 (total dust)
Alpha Alumina (alumina - A/O)	70.00	78.00	1344-28-1	-	-
Triglycerides (animal fat)	23.00	13.00	61789-97-7	-	-
Tallow (tallow glyceride)	7.00	9.00	67701-27-3	-	-

Section II - Hazard Identification

Potential Health Effects:

Eyes: Dust or buffing debris may irritate or damage the eyes without protection. Always wear safety glasses and/or face shield helmets when performing buffing operations. See OSHA 29cfr1910.122 (Safety Glasses)

Skin: Irritation of the skin may occur due to mechanical/chemical action or dermatitis reaction.

Inhalation - Acute: May cause coughing, shortness of breath (dust).

Chronic: May effect breathing capacity (dust).

Intake: May cause gastrointestinal disturbances, constipation or diarrhea.

Section III - Emergency First Steps

Primary Route(s) of Entry	Acute and chronic health effects and effects of overexposure	First Aid and Medical Information
Inhalation (during use)	Acute: May cause coughing, shortness of breath (dust). Chronic: May effect breathing capacity (dust).	Remove to fresh air; apply artificial respiration as needed. Obtain first aid or medical assistance.
Ingestion	May cause gastrointestinal disturbances, constipation or diarrhea.	Obtain first aid or medical assistance, if needed.
Skin (contact & absorption)	Irritation of the skin may occur due to mechanical/chemical action or dermatitis reaction.	Wash skin with soap and water. Obtain first aid and/or medical assistance if symptoms persist.
Eye	Dust or buffing debris may irritate or damage the eyes without protection. Always wear safety glasses and/or face shield helmets when performing buffing operations. See OSHA 29cfr1910.122 (Safety Glasses)	Wash with large amounts of water - obtain first aid or medical assistance, if needed.

Section IV - Prevention Action and Fire Combat

Fire/Explosion – CO2: dry chemical, foam, water fog. Special Fire Fighting

Extinction Method: Dry polishing compound and buffing wheel lint and debris may make the mix combustible. Treat as an oil fire.

Fire Combat instruments: N/A = not applicable

Section V - Outpouring or Leaking Control Method

Respiratory protection (specify type): OSHA 24 CFR/134 NIOSH/MSHA approved respirators for particulates from buffing debris.

Ventilation:

Local Exhaust: General room ventilation.

Mechanical (General): Recommend venting to dust collectors.

Protective gloves: Wear heavy-duty work-type gloves for hand protection.

Eye protection: Wear safety glasses and/or face shield helmets (see OSHA 29 CFR 1910.122 (safety glasses)).

Other protective clothing or equipment: Protective work clothing, body apron or belly pads, safety shoes, as needed.

Hearing Protection: Avoid prolonged excessive noise levels created by buffing and polishing operations (see OSHA 29 CFR 1910.215 (hearing protection)).

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, Josco Australia makes no warranty with respect to the accuracy of the information or the suitability of the recommendation, and assumes no liability to any user thereof.

NAIF = no applicable information found

N/A = not applicable

Section VI - Handling and Storage

Keep away from heat, sparks, or flame. Where flammable mixtures maybe present, equipment safety for such locations should be used. Use clean, spark proof tools and explosion-proof equipment. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or dust. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using this product.

Section VII - Exposition Control and Individual Protection

Engineering Control – NA

Respiratory Protection – OSHA 24 CFR/134 NIOSH/MSHA approved respirators for particulates from buffing debris.

Skin Protection – Wear heavy-duty work-type gloves for hand protection. Protective work clothing, body apron or belly pads, safety shoes, as needed

Eyes Protection – Wear safety glasses and/or face shield helmets (see OSHA 29 CFR 1910.122 (safety glasses)).

Section VIII - Physiochemical Properties

Physical state: brown paste, solvent odor.

Appearance, and odor: 0.09 Ppm (based on kerosene)

Molecular weight: not available.

Specific gravity: 1.2 (Water=1) (approximately)

Density: 10 lb/us gal (1200 g/l) (approximately)

Vapor density: greater than 1 (air = 1)

Vapor pressures: 5mm hg at 100°F (38°C) maximum

Boiling point: greater than 212°F (100°C)

Freezing/melting point: not available

Ph: not available

Evaporation rate: less than 1 (butyl acetate=1)

Solubility in water: slight

Solubility in water: slight

Flash point: 195°F (91°C) Pensky-Martens Closed Cup

Flammable limits in air: Lower: 0.7 Vol% (minimum) Upper: 5.0 Vol% (maximum)

Autoignition temperature: 410°F (210°C) (approximately)

Section IX - Stability and Reactivity

Stability: Stable

Incompatibility (Materials to Avoid): Strong oxidizers or reducing agents

Hazardous Decomposition or Byproducts: Dust from machining could contain ingredients listed in Section 2 and other, potentially more hazardous components of the base material being machined or coatings applied to the base material. Combustion will form oxides of carbon and smoke.

Hazardous Polymerization: None

Section X - Toxicological Information

Sensitization: Based on best current information, there is no known human sensitization associated with this product.

Mutagenicity: Kerosene has demonstrated experimental effects of mutagenicity.

Carcinogenicity: Tripoli (crystalline silica) is categorized by ACGIH as a suspected human carcinogen (a2). Tripoli (crystalline silica) is categorized by IARC as carcinogenic to humans (group 1). Tripoli (crystalline silica) is listed by NTP as a known carcinogen.

As per ACGIH, kerosene is categorized as a confirmed animal carcinogen with unknown relevance to humans(a3).

Based on best current information. The other components listed in section 2 are no carcinogens.

Reproductive toxicity: Based on best current information, there is no known reproductive toxicity associated with this product.

Teratogenicity: Based on best current information, there is no known teratogenicity associated with this product.

Toxicologically synergistic products: Based on best current information, there are no known toxicologically synergistic products associated with this product.

Section XI - Environment Information

ECOTOXICITY: No data available for this product.

Component Analysis-Ecotoxicity-Aquatic Toxicity

Tall oil fatty acids(61790-12-3)

Test & Species

72 Hr EC50 Selenastrum capricornutum \geq 1000 mg/L

OCTANOL/WATER PARTITION COEFFICIENT: Not available.

VOLATILE ORGANIC COMPOUNDS: 20-40%; 2 to 4 LB/US gal; 240 to 480 g/IAs per 40 CFR Part 51.100(s)

Section XII - Disposition

DISPOSAL: Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Josco Australia regarding proper recycling or disposal.

USEPA WASTE: D018

CODE(S):Based on available data, this information applies to the product as supplied to the user. Processing, use, or contamination by the user may change the waste code applicable to the disposal of this product.

Section XIII - Carriage Information

DOT:

Shipping name: Combustible liquid, no.o.s.(Kerosene)

UN/NA #: NA1993 HAZARD Class: Combustible liquid Packing Group:III

Additional info: NOTE: For non-bulk shipments(less than 119 gallons(450L)), this product can be re-classified a Not Regulated.

TDG:

Shipping Name: Not regulated.

EMERGENCY RESPONSE GUIDE NUMBER:

128

Reference North American Emergency response Guidebook.

Section XIV - Legislation

USA REGULATONS

OSHA:

OSHA Regulated Chemicals

Tripoli(1317-95-9)

Present (related to Silica, crystalline (respirable size)) (Select Carcinogen)

SARA SECTIONS 302 AND 304:

Based on the ingredient(s)listed in SECTION 2, this product does not contain any "extremely hazardous substances" listed pursuant Title III of the Superfund Amendents and Reauthorization Act of 1986 (SARA):

Immediate(Acute) Health Hazard

Delayed(Chronic) Health Hazard

Fire Hazard

SARA SECTION 313:

This product does not contain "toxic" chemical(s) subject to the requirements of section 313 of title III of the superfund Amendments and Reauthorization Act of 1986(SARA) and 40 CFR Part 372.

CERCLA:

Based on the ingredients) listed in SECTION 2, this product does not contain any "hazardous substances" listed pursuant to the Comprehensive Environmental Responses, Compensation and Liability Act of 1980(CERCLA) in 40CFR Part 302, Table 302.4.

TSCA:

All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, the TSCA Inventory.

Section XV - Other Information

LAEL/OTHER INFORMATION: Not available.