



## MATERIAL (SAFETY DATA SHEET)

### PRODUCT PREMIUM PIT POLISH

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#### I. Product Identification

Product code: 30400,30402, 30403, 30404, 30405, 30525  
Synonyms: Aqueous Silica/Hydrocarbon Mixture

Manufacturer/Supplier  
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#### II. Hazard Identification

Hazard description: Irritant Appearance: Opaque, tan Physical state: Liquid  
Classification: OSHA Regulatory Status: This chemical is considered an irritant by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Eye Irritation	Category 2
Skin Irritation	Category 2
STOT (Inhalation-Respiratory Irritation)	Category 3
STOT (Inhalation) RE	Category 2.
Target Organ Effects:	Skin, eyes, inhalation

Signal word  
WARNING



#### GHS label elements, including precautionary statements

**Hazard statements:** This product may mildly irritate contaminated tissue, especially upon prolonged exposure. Inhalation of high concentrations of vapors can cause central nervous system depression(e.g., dizziness, headaches, and nausea). This product may contain Crystalline Silica, which is known to cause cancer by inhalation when particles are present. If this product is used in a manner that creates dust, use of respiratory protection is required. Contains compound that is a suspect mutagen.

**Precautionary Statements - Prevention:** Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/clothing/eye and face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well ventilated area.

**Precautionary Statements - Response:** Get medical advice attention if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

**Precautionary statements - Storage:** Store in a well-ventilated place. Keep container tightly closed.

**Precautionary Statements - Disposal:** Dispose of contents/container to an approved waste disposal plant.

#### III. Composition

Chemical Name	Weight-%	C.A.S. number
Odorless Mineral Spirits	7.0-13	64742-48-9
Amorphous Silica's	5.0-10.0	68855-54-9
Diatomaceous Earths Mixture	4.0-8.0	61790-53-2
Polydimethyl Siloxane	4.0-8.0	613148-62-9
Morpholine	1.0-5.0	110-91-8
Oleic Acid	1.0-5.0	112-80-1
Crystalline Silica's Mixture	0-5.0/0.-1.0	14464-46-1 /14808-60-7
Water	Balance	7732-18-5

#### IV. First Aid Measures

**Description of first aid measures:** Contaminated individuals must be taken for medical attention if any adverse effects occur. Take a copy of the label and SDS to health professional with victim.

**Eye Irritation:** If this product contaminates the eyes, open contaminated individual's eyes while under gently running water. Use sufficient force to open eyelids. Have contaminated individual "roll" eyes. Minimum flushing is for 20 minutes. Contaminated individual must seek medical attention if adverse effect continues after flushing.  
**Skin Contact:** If this product contaminates the skin, begin decontamination with running water. Minimum flushing for 20 minutes. The contaminated individual must seek medical attention if any adverse effects occur after flushing.  
**Inhalation:** If mists or sprays of this product are inhaled, remove victim to fresh air. The contaminated individual must seek medical attention if any adverse effects occur.  
**Ingestion:** If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTR FOR MOST CURRENT INFORMATION. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow. If victim is convulsing, maintain an open airway and obtain immediate medical attention.

**MOST IMPORTANT SYMPTOMS/EFFECTS (ACUTE & CHRONIC):** See Sections 2 (Hazard identification) and 11 (Toxicological Information) for description of possible health effects from exposure to this product.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Skin disorders, respiratory conditions, and central nervous system conditions may be aggravated by prolonged overexposure to this product.

**INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT IF NEEDED:** Treat symptoms and eliminate overexposure.

#### V. Fire-Fighting Measures

**FLASH POINT (Pensky-Martens Closed Tester):** 93.3°C(>200°F)  
**Suitable extinguishing media:** Use CO<sub>2</sub>, dry chemical, or foam.  
**Unsuitable extinguishing media:** None Known  
**Specific hazards arising from the chemical:** This product presents a moderate eye and skin-contact hazard to firefighters. When involved in a fire, this material may decompose and produce irritating vapors and toxic gases (including silicon, nitrogen and carbon oxides).  
**Hazardous combustion products:** Hazardous decomposition products due to incomplete combustion.  
**Explosion data:** NONE  
**Protective equipment and precautions for fire fighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### VI. Accidental Release Measure

**Personal safety:** Wear rubber gloves, splash goggles, and appropriate body protection.  
**Environmental safety:** Avoid release to the environment. Run-off water may be contaminated by other materials and should be contained to prevent possible environmental damage.  
**Methods for cleaning up:** Absorb spilled material with polyads or other suitable, non-reacting absorbent, avoiding generation of aerosols, wearing gloves and aprons. Place spilled material in appropriate container for disposal, sealing tightly.

#### VII. Storage and Handling Procedures

**Storage:** Keep container tightly closed in a dry and well-ventilated place.  
**Handling:** Handle in accordance with good industrial hygiene and safety practices. Ensure adequate ventilation. Protect from light.  
**Incompatible products:** Amines, Strong oxidizing agents, Strong acids, Strong bases, Oxygen scavengers, Thiosulfates.

#### VIII. Exposure Controls and Personal Protection

Chemical name	ACGIH TLV	OSHA	NIOSH	NIOSH
	TWA mg/m <sup>3</sup>	TWA mg/m <sup>3</sup>	TWA mg/m <sup>3</sup>	IDLH mg/m <sup>3</sup>
Amorphous Silica	NE	NE	NE	NE
Crystalline Silica	NE	Total Dust: 30mg/m <sup>3</sup> % SiO <sub>2</sub> + 2 Resp. Fract. 250 mppcf % SiO <sub>2</sub> + 5 1 (vacated 1989 PEL)	0.005 (Resp. dust)	50
Crystalline Silica, Cristobalite	0.025( resp. fract.)	% the value calculated from the respirable dust formula for quartz 0.05(vacated 1989 PEL)	0.005	25
Diatomaceous Earth	NE	20 mppcf 6 (vacated 1989 PEL)	6	NE
Mineral Spirits	NE	NE	NE	NE
Morpholine	71 (skin)	70 (skin)	70 (skin)	NE
Oleic Acid	NE	NE	NE	NE
Polydimethyl Siloxane	NE	NE	NE	NE

**Respiratory:** Positive fresh air exhaust should be provided in the work area; respiratory equipment is unnecessary in normal use.  
**Skin:** Avoid skin contact. Wear gloves and impervious protective clothing if frequent direct contact is likely.  
**Eyes:** Use approved safety goggles or safety glasses. If necessary, refer to appropriate regulations to assist in equipment selection.

#### IX. Physical and Chemical Properties

**Physical state:** Viscous liquid  
**Molecular formula:** Mixture  
**Odor:** Hydrocarbon.  
**Relative vapor density (air = 1):** >1.0  
**Specific gravity (water = 1):** 1.01  
**Vapor pressure, mmHg @50°C:** <75  
**FLASH POINT (Pensky-Martens Closed Tester):** 93.3°C(>200°F)  
**Color:** Opaque, tan  
**Molecular weight:** Mixture  
**Odor threshold:** Not Determined established for product  
**Evaporation rate (nBuAc = 1):** <1.0  
**Melting/Freezing point:** Not Determined established for product  
**Boiling point:** 80°C (176°F)  
**VISCOSITY (cP):** 7000-9000  
**%Volatile:** <16  
**pH:** 8.5 to 9.0  
**Solubility in water:** Soluble

Coefficient of oil/water distribution(partition coefficient): Not Determined  
How to detect this substance (identification/warning properties): The odor is a distinguished characteristic of this product.

**X. Stability and reactivity**

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Stability: Stable under normal conditions.  
Hazardous Decomposition Products: Combustion: Silicon, nitrogen and carbon oxides. Hydrolysis: None known.  
Incompatibility: Strong oxidizing agents, Strong acids, Strong bases  
Possibility of hazardous reactions: None known  
Conditions to avoid: Exposure to water, moist air, and ultraviolet light, Incompatible chemicals, high temperatures.

**XI. Toxicological Information**

Inhalation: Inhalation is not anticipated to be a significant route of overexposure to this product. If mists of this product are inhaled, irritation of the nose and other tissues of the upper respiratory system may occur. Inhalation of high concentrations of vapors (as may occur if this material is used in a poorly ventilated area), symptoms are generally alleviated upon breathing fresh air. This product may contain Crystalline Silica, which is known to cause cancer by inhalation. If this product is used in a manner that creates dust (such as application of product with a mechanical polishing wheel), use of respiratory protection is required.  
Contact with eyes: Depending on the duration and concentration of overexposure, eye contact can cause irritation and reddening. Symptoms are generally alleviated upon rinsing.  
Skin absorption: Skin absorption is a potential route of exposure for the Morpholine component of this product. Contact can cause reddening, discomfort and irritation. If a large area of skin is involved, system toxicity can occur.  
Ingestion: Ingestion is not anticipated to be a likely route of exposure to this product in the workplace. If this material is swallowed, it may cause headache, nausea and vomiting. While not anticipated to occur, due to product viscosity, aspiration of this liquid may cause life-threatening lung damage.  
Mutagenic effects: No information available.  
Carcinogenicity: Components, including Crystalline Silica, are known or suspected carcinogens. This product contains compounds that may damage the lungs through acute and chronic inhalation exposure.  
Reproductive toxicity: Currently, there is no information on the potential human mutagenic, embryo toxic, teratogenic or reproductive effects from this product. Animal data from the Morpholine component has shown both positive and negative mutagenic results, with no conclusions possible on mutagenicity.

**Numerical measures of toxicity - Product information**

Chemical Name	Inhalation (Rat-R) (Mouse-M)	Oral (Rat-R) (Mouse-M)	Dermal (Rat) (Mouse-M) (Rabbit-RA)
Amorphous Silica	Currently, there are no toxicological data for this compound		
Crystalline Silica (quartz)	TCLo 50 mg/m <sup>3</sup> 26 week- intermittent: Lungs, Thorax, or Respiration: fibrosis, focal (pneumoconiosis) ( R )	NE	NE
Crystalline Silica, Cristobalite	TCLo 70mg/m <sup>3</sup> 5 hours/12 days- intermittent Lungs, Thorax, or Respiration: fibrosis, focal (pneumoconiosis) ( M )	NE	NE
Diatomaceous Earth	Currently, there are no toxicological data for this compound		
Mineral Spirits	Currently, there are no toxicological data for this compound		
Morpholine	LC <sub>50</sub> 8000 ppm 8 hours	LD <sub>50</sub> 1738 mg/kg; Kidney/Ureter/Bladder changes in blood vessels or in circulation of kidney	TDLo 9 gm/kg 10 days- intermittent: Liver: fatty liver degeneration; Skin and Appendages: Primary irritation (after topical exposure); Related to Chronic Data: death. (RA)
Oleic Acid	TCLo 30 mg/m <sup>3</sup> 4 ours: Behavioral: alteration of classical conditioning; Blood changes in serum composition(e.g. TP, bilirubin, cholesterol); Immunological including Allergic: hypersensitivity delayed. ( R )	LD <sub>50</sub> 25000 mg/kg	TDLo 1500mg/kg 3 days-intermittent: Blood: other changes (M)
Polydimethyl Siloxane	NE	24 gm/kg; Gastrointestinal: hypermotility, diarrhea ( R )	LD50 2gm/kg; Behavioral: food intake (animal); Gastrointestinal: hypermotility, diarrhea; Skin and appendages: dermatitis. (RA)

**XII. Ecological Information**

**Mobility**  
Morpholine: This product has not been tested for mobility in soil. The following information is available for some components.  
Using a measured log octanol/water partition coefficient (log Kow) of -0.86 and a regression equation, the estimated Koc for this compound is 8. The Koc estimated from molecular structure is 5. According to a suggested classification scheme, this estimated Koc suggests that this compound is highly mobile in soil.  
Oleic Acid: According to a classification scheme, this estimated Kog value of 7.64 indicates a low mobility in soil.  
**Persistence and biodegradability**  
Morpholine: This product has not been tested for persistence or biodegradability. The following information is available for some components.  
Oleic Acid: If released to soil, this compound may volatilize from dry soil surfaces, but not from moist soil. This material in soil will move with soil moisture and is expected to leach extensively.  
If released to air a vapor pressure of 5.46X10-7mm Hg at 25°C indicates this compound will exist in both the vapor and particulate phases in the atmosphere. Vapor-phase material will be degraded in the atmosphere by reaction with ozone: half-lives of about 2.1 and 1.4 hours for the cis- and trans-isomers, respectively, are calculated for this reaction. Particulate-phase oleic acid will be removed from the atmosphere by wet or dry deposition.  
**Bio-accumulation potential**  
Morpholine: This product has not been tested for bio-accumulation potential. The following information is available for some components.  
Oleic Acid: Because this compound is miscible with water and has a very low measured octanol/water partition coefficient, log Kow -86, its tendency to bioconcentrate in aquatic organisms should be extremely low. An experimentally determined BCF for Morpholine was <2.8.  
Ecotoxicity: An estimated BCF of 10 was calculated in fish for this compound, using a log Kow of 7.64 and regression-derived equation. According to a classification scheme, this BCF suggests the potential for bioconcentration in aquatic organisms is low.  
This product may have significant, adverse effects on aquatic plants and animals if accidentally released to an aquatic environment. The following are aquatic toxic data for some components of this product. Limited data are presented in this SDS.  
Morpholine: LC<sub>50</sub> (bluegill) 96 Hours = 350 mg/L | LC<sub>50</sub> (daphnia) 24h hours = 100 mL | EC<sub>50</sub> (Daphnia Magna) 24 hours = 119mg/L (immobilization)  
Oleic Acid: LC<sub>50</sub> (Pimephales promelas Fathead minnow, juvenile 4-8 wk, length 1.1-3. cm) 96 hours = 205.000 µg/L; Conditions: freshwater, static, 18-22°C, dissolved oxygen < or =4.0 mg/L

Other adverse effects: Components of this product are not listed as having ozone depletion potential.  
Environmental exposure controls: Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

**XIII. Disposal considerations**

Waste Disposal Methods: It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste per regulations of the area in which the waste is generated and/or disposed of. Waste disposal must be in accordance with appropriate Federal, State, and local regulations.

Contaminated packaging: Dispose of in accordance with local regulation.

**XIV. Transportation information**

U.S. Department of transportation Regulations: This product is NOT classified as a dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101  
Transport Canada transportation of dangerous goods regulations: This product is NOT considered as Dangerous Goods.  
International air transport association designation: This material is NOT considered as a dangerous goods, per IATA  
International maritime organization (IMO): This product is not considered as dangerous goods, per rule of the IMO  
Environmental hazards: This product does not meet the criteria of environmentally hazardous according to the criteria of the UN Model Regulations (as reflected in the IMDG Code, ADR, RID, and AND); components are not specifically listed in Annex III under MARPOL 73/789.

**XV. Regulatory Information.****Additional U.S. Regulations**

U.S. Sara reporting requirements: The components of this product are NOT subject to the reporting requirements of section 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.  
U.S. Sara threshold planning quantity: There are not specific Threshold Planning Quantities for this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lb. (4540 kg) may apply, per 40 CFR 370.20  
U.S. Cercla reportable quantity(RQ): Not applicable.  
U.S. TSCA inventory status: The components of this product listed are listed on the TSCA inventory.  
Other U.S. Federal regulations: Not applicable.  
California safe drinking water and toxic enforcement act (prop 65): The Crystalline Silica(airborne particles of respirable size) component of this product is on the CA prop 65 lists.  
Warning! This product contains a compound known to the State of California to cause cancer.

**Additional Canadian Regulations**

Canadian DSL/NDL Inventory: The components of this product listed are listed on the DSL Inventory.

Canadian WHMIS IDL disclosure status: The Amorphous Silica/Diatomaceous Earth, Crystalline Silica, Morpholine and Oleic components of this product have a disclosure level of 1%.

Other Canadian Regulations: Not applicable.  
Canadian Environmental Protection Agency (CEPA) Priority substances lists: The components of this product are not on the Priority Substances Lists.  
Canadian WHMIS classification and symbols: Class D2B ( Materials causing other toxic effects) Irritation.

**XVI. Other information**

METHODS OF EVALUATING INFORMATION FOR THE PURPOSE OF CLASSIFICATION: Bridging principles were used to classify this product.

NFPA Rating Flammability 1 Health 2 Instability 0

Signal Words: Warning



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