

Safety Data Sheet



Section 1: Identification

Product identifier

- Product Name** • Pipe Joint Lubricant
Synonyms • PGS 82; PGS 84-40; PGS 87N

Relevant identified uses of the substance or mixture and uses advised against

- Recommended use** • Improve jointing of rubber gasketed concrete, asbestos, plastic, or clay pipe

Details of the supplier of the safety data sheet

- Manufacturer** • M.A. Industries, Inc.
303 Dividend Drive
Peachtree City, GA 30269
United States
www.maind.com
Telephone (General) • 770-487-7761

Emergency telephone number

- Manufacturer** • 770-487-7761

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

- OSHA HCS 2012**
- Skin Corrosion 1B
 - Serious Eye Damage 1
 - Acute Toxicity Inhalation 4
 - Carcinogenicity 1A
 - Specific Target Organ Toxicity Repeated Exposure 1

Label elements

OSHA HCS 2012

DANGER



- Hazard statements** • Causes severe skin burns and eye damage
Causes serious eye damage

Harmful if inhaled
 May cause cancer
 Causes damage to organs through prolonged or repeated exposure

Precautionary statements

- Prevention** • Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not breathe mist, vapours, and/or spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Call a POISON CENTER or doctor/physician if you feel unwell.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 Specific treatment, see supplemental first aid information.
 Wash contaminated clothing before reuse.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately call a POISON CENTER or doctor/physician.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 IF exposed or concerned: Get medical advice/attention.
 Get medical advice/attention if you feel unwell.

- Storage/Disposal** • Store locked up.
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Supplemental information • <48.07 percent of this product consists of an ingredient of unknown toxicity.

Other hazards

- OSHA HCS 2012**
- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Fatty acids, tall oil	CAS:61790-12-3	20% TO 34%	Ingestion/Oral-Rat LD50 • >10000 mg/kg	OSHA HCS 2012: Not Classified	NDA
Gas oil, blend	CAS:64741-44-2	0% TO 33%	Inhalation-Rat LC50 • 1700 mg/m ³ 4 Hour(s)	OSHA HCS 2012: Eye Irrit. 2; Skin Irrit. 2; Acute Tox. 4 (Inhl)	NDA
Kaolin	CAS:1332-58-7	4.3% TO 30.7%	NDA	OSHA HCS 2012: Eye Irrit. 2B; STOT RE 1 (Lungs)	NDA
Soybean oil	CAS:8001-22-7	0% TO 9.2%	NDA	OSHA HCS 2012: Not Classified	NDA
Silicate, mica	CAS:12001-26-2	0% TO 7%	NDA	OSHA HCS 2012: STOT RE 1 (Lung, Liver, Inhl)	NDA

Potassium hydroxide	CAS:1310-58-3	0% TO 5.6%	Ingestion/Oral-Rat LD50 • 273 mg/kg	OSHA HCS 2012: Met. Corr. 1; Acute Tox. 3 (Orl); Skin Corr. 1B; Eye Dam. 1; STOT SE 3: Resp. Irrit.	NDA
Quartz	CAS:14808-60-7	< 1.2%	NDA	OSHA HCS 2012: Carc. 1A; STOT RE 1 (Lungs, Inhl)	NDA
Magnesium oxide	CAS:1309-48-4	0% TO 1.1%	NDA	OSHA HCS 2012: Acute Tox. 4, orl	NDA
Feldspars	CAS:68476-25-5	< 0.7%	NDA	OSHA HCS 2012: Not Classified	NDA
Titanium dioxide	CAS:13463-67-7	< 0.6%	NDA	OSHA HCS 2012: Muta. 2; Carc. 2; STOT RE 2 (Lungs)	NDA
Cristobalite	CAS:14464-46-1	< 0.5%	NDA	OSHA HCS 2012: Carc. 1A (Inhl); STOT RE 1 (Lungs, Inhl)	NDA
Sodium chloride	CAS:7647-14-5	0% TO 0.2%	Ingestion/Oral-Rat LD50 • 3000 mg/kg	OSHA HCS 2012: Eye Irrit. 2	NDA

Key to abbreviations

NDA = No Data Available

Section 4: First-Aid Measures

Description of first aid measures**Inhalation**

- Move victim to fresh air. Administer oxygen if breathing is difficult. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Give artificial respiration if victim is not breathing. Get medical attention immediately.

Skin

- For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Get medical attention immediately.

Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Get medical attention immediately.

Ingestion

- If swallowed, rinse mouth with water (only if the person is conscious) Do NOT induce vomiting. Do not use mouth-to-mouth method if victim ingested the substance. Obtain medical attention immediately if ingested.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • LARGE FIRES: Dry chemical, CO2, alcohol-resistant foam or water spray.
SMALL FIRES: Dry chemical, CO2 or water spray.

Unsuitable Extinguishing Media

- No data available

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Containers may explode when heated.

Hazardous Combustion • Non-combustible, substance itself does not burn but may decompose upon heating to

Products produce corrosive fumes.

Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
Wear positive pressure self-contained breathing apparatus (SCBA).
SMALL FIRES: Move containers from fire area if you can do it without risk.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container.

Environmental precautions

- Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Handle and open container with care. Use only with adequate ventilation. Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive liquid to water while stirring to prevent release of heat, steam and fumes. Wear appropriate personal protective equipment, avoid direct contact. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

Storage

- Keep container tightly closed. Store in a cool, dry, well-ventilated place. For best consistency, store at 40-60 F.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Magnesium oxide (1309-48-4)	TWAs	10 mg/m ³ TWA (inhalable fraction)	Not established	15 mg/m ³ TWA (fume, total particulate)
Potassium hydroxide (1310-58-3)	Ceilings	2 mg/m ³ Ceiling	2 mg/m ³ Ceiling	Not established
Silicate, mica (12001-26-2)	TWAs	3 mg/m ³ TWA (respirable fraction)	3 mg/m ³ TWA (containing <1% Quartz, respirable dust)	Not established

Cristobalite (14464-46-1)	TWAs	0.025 mg/m ³ TWA (respirable fraction)	0.05 mg/m ³ TWA (respirable dust)	Not established
Titanium dioxide (13463-67-7)	TWAs	10 mg/m ³ TWA	Not established	15 mg/m ³ TWA (total dust)
Quartz (14808-60-7)	TWAs	0.025 mg/m ³ TWA (respirable fraction)	0.05 mg/m ³ TWA (respirable dust)	Not established
Kaolin (1332-58-7)	TWAs	2 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)

Exposure controls

Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

- Wear chemical splash safety goggles.

Skin/Body

- Wear appropriate gloves. Wear long sleeves and/or protective coveralls.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Beige paste with mild earthy odor.
Color	Beige	Odor	Mild earthy.
Odor Threshold	No data available		
General Properties			
Boiling Point	100 C(212 F)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	6 to 7
Specific Gravity/Relative Density	1.05 to 1.3 Water=1	Water Solubility	Appreciable 10 to 99 %
Viscosity	500 to 300000 Centipoise (cPs, cP) or mPas shear thinning		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	No data available	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		

Environmental

Octanol/Water Partition coefficient	No data available		
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Section 10: Stability and Reactivity**Reactivity**

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Excess heat.

Incompatible materials

- No data available

Hazardous decomposition products

- No data available

Section 11 - Toxicological Information**Information on toxicological effects**

		Components
Fatty acids, tall oil (20% TO 34%)	61790-12-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • >10000 mg/kg; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 450000 mg/kg 90 Day(s)-Intermittent; <i>Behavioral:Food intake (animal)</i>
Gas oil, blend (0% TO 33%)	64741-44-2	Acute Toxicity: Ingestion/Oral-Rat LDLo • >5 g/kg; <i>Behavioral:Somnolence (general depressed activity); Gastrointestinal:Hypermotility, diarrhea</i> ; Inhalation-Rat LC50 • 1700 mg/m ³ 4 Hour(s); Irritation: Skin-Rabbit • 500 mg • Moderate irritation; Tumorigen / Carcinogen: Skin-Mouse TDLo • 29250 mg/kg 20 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Skin and Appendages:Other:Tumors; Lungs, Thorax, or Respiration:Tumors</i>
Quartz (< 1.2%)	14808-60-7	Acute Toxicity: Inhalation-Human TCLo • 16 mppcf 8 Hour(s) 17.9 Year(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Cough; Lungs, Thorax, or Respiration:Dyspnea</i> ; Inhalation-Rat TCLo • 200 mg/kg; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Other changes; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Fe</i> ; Multi-dose Toxicity: Inhalation-Hamster TCLo • 3 mg/m ³ 6 Hour(s) 78 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Changes in lung weight</i> ; Inhalation-Rat TCLo • 6.2 mg/m ³ 6 Hour(s) 6 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Other changes; Blood:Changes in spleen; Immunological Including Allergic:Increase in cellular immune response</i> ; Inhalation-Rat TCLo • 80 mg/m ³ 26 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Blood:Changes in spleen; Immunological Including Allergic:Decrease in cellular immune response</i> ; Mutagen: Micronucleus test • Unreported Route-Hamster • Lung (Somatic cell) • 160 µg/cm ³ ; DNA damage • Unreported Route-Human • Other Cell Type • 120 mg/L 24 Hour(s); Micronucleus test • Unreported Route-Human • Lung (Somatic cell) • 40 µg/cm ³ ; Tumorigen / Carcinogen: Inhalation-Rat TCLo • 50 mg/m ³ 6 Hour(s) 71 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Liver:Tumors</i>
		Multi-dose Toxicity: Inhalation-Hamster TCLo • 30 mg/m ³ 48 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Tumors</i> ; Inhalation-Rat TCLo • 30 mg/m ³ 96 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Other changes</i> ;

Kaolin (4.3% TO 30.7%)	1332-58-7	Lungs, Thorax, or Respiration:Tumors ; Inhalation-Rat TCLo • 30 mg/m ³ 72 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Tumors ; Reproductive: Ingestion/Oral-Rat TDLo • 590 g/kg (37D pre/1-22D preg); Reproductive Effects:Effects on Newborn:Growth statistics (e.g., reduced weight gain) ; Ingestion/Oral-Rat TDLo • 370 g/kg (37D pre/1-22D preg); Reproductive Effects:Maternal Effects:Other effects ; Reproductive Effects:Effects on Newborn:Other neonatal measures or effects.
Cristobalite (< 0.5%)	14464-46-1	Acute Toxicity: Inhalation-Human TCLo • 16 mppcf 8 Hour(s) 17.9 Year(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis) ; Lungs, Thorax, or Respiration:Cough ; Lungs, Thorax, or Respiration:Dyspnea ; Multi-dose Toxicity: Inhalation-Mouse TCLo • 70 mg/m ³ 5 Hour(s) 12 Day(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis) ; Lungs, Thorax, or Respiration:Fibrosis (interstitial) ; Lungs, Thorax, or Respiration:Other changes ; Inhalation-Mouse TCLo • 43 mg/m ³ 5 Hour(s) 9 Day(s)-Intermittent; Lungs, Thorax, or Respiration:Pleural effusion ; Lungs, Thorax, or Respiration:Other changes
Titanium dioxide (< 0.6%)	13463-67-7	Irritation: Skin-Human • 300 µg 3 Day(s)-Intermittent • Mild irritation; Multi-dose Toxicity: Inhalation-Rat TCLo • 10 mg/m ³ 6 Hour(s) 13 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis (interstitial) ; Lungs, Thorax, or Respiration:Other changes ; Biochemical:Metabolism (intermediary):Effect on inflammation or mediation of inflammation ; Inhalation-Rat TCLo • 250 mg/m ³ 6 Hour(s) 4 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Chronic pulmonary edema ; Lungs, Thorax, or Respiration:Other changes ; Mutagen: Cytogenetic analysis • Ingestion/Oral-Mouse • 280 mg/kg 7 Day(s)-Intermittent; Micronucleus test • Ingestion/Oral-Mouse • 280 mg/kg 7 Day(s)-Intermittent; DNA damage • Ingestion/Oral-Mouse • 280 mg/kg 7 Day(s)-Intermittent; Tumorigen / Carcinogen: Inhalation-Rat • 10 mg/m ³ 18 Hour(s) 2 Year(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria ; Lungs, Thorax, or Respiration:Tumors ; Inhalation-Rat TCLo • 250 mg/m ³ 6 Hour(s) 2 Year(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria ; Lungs, Thorax, or Respiration:Tumors
Potassium hydroxide (0% TO 5.6%)	1310-58-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 273 mg/kg; Irritation: Eye-Rabbit • 1 mg 24 Hour(s)-Rinse • Moderate irritation; Skin-Rabbit • 50 mg 24 Hour(s) • Severe irritation; Mutagen: Cytogenetic analysis • Unreported Route-Hamster • Ovary (Somatic cell) • 12 mmol/L; Cytogenetic analysis • Unreported Route-Rat • Ascites tumor (Somatic cell) • 1800 mg/kg
Sodium chloride (0% TO 0.2%)	7647-14-5	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3000 mg/kg; Irritation: Eye-Rabbit • 10 mg • Moderate irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 201.6 g/kg 6 Week(s)-Intermittent; Vascular:BP elevation not characterized in autonomic section ; Mutagen: Unscheduled DNA synthesis • Ingestion/Oral-Rat • 16800 mg/kg 4 Week(s)-Continuous; Reproductive: Ingestion/Oral-Rat TDLo • 56400 mg/kg (5D pre-21D post); Reproductive Effects:Maternal Effects:Postpartum ; Reproductive Effects:Effects on Newborn:Biochemical and metabolic

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012 • No data available
Serious eye damage/Irritation	OSHA HCS 2012 • Serious Eye Damage 1
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Inhalation 4 - ATEmix (inhl) = 2.2 mg/L 4H (dust/mist)
Aspiration Hazard	OSHA HCS 2012 • No data available
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 1A
Germ Cell Mutagenicity	OSHA HCS 2012 • No data available
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Corrosion 1B
Skin sensitization	OSHA HCS 2012 • No data available
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1
STOT-SE	OSHA HCS 2012 • No data available
Toxicity for Reproduction	OSHA HCS 2012 • No data available

Potential Health Effects**Inhalation****Acute (Immediate)**

- Harmful if inhaled. May cause corrosive burns - irreversible damage.

Chronic (Delayed)

- Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough. Repeated and prolonged exposure may cause lung effects including pneumoconiosis.

Skin**Acute (Immediate)**

- Causes severe skin burns and eye damage.

Chronic (Delayed)

- Repeated or prolonged exposure to corrosive materials will cause dermatitis.

Eye**Acute (Immediate)**

- Causes serious eye damage.

Chronic (Delayed)

- Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

Ingestion**Acute (Immediate)**

- May cause irreversible damage to mucous membranes.

Chronic (Delayed)

- Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

Other**Chronic (Delayed)**

- Repeated and prolonged exposure may affect the liver. Symptoms may include yellowing of the skin (jaundice), intense fatigue, loss of appetite, nausea, vomiting, and confusion.

Carcinogenic Effects

- Repeated and prolonged exposure may cause cancer.

Carcinogenic Effects			
	CAS	IARC	NTP
Cristobalite	14464-46-1	Group 1-Carcinogenic	Not Listed
Titanium dioxide	13463-67-7	Group 2B-Possible Carcinogen	Not Listed
Quartz	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen

Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

Section 12 - Ecological Information**Toxicity**

- Non-mandatory section - information about this substance not compiled for this reason.

Persistence and degradability

- Non-mandatory section - information about this substance not compiled for this reason.

Bioaccumulative potential

- Non-mandatory section - information about this substance not compiled for this reason.

Mobility in Soil

- Non-mandatory section - information about this substance not compiled for this reason.

Other adverse effects

- Non-mandatory section - information about this substance not compiled for this reason.

Section 13 - Disposal Considerations**Waste treatment methods****Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Key to abbreviations

NDA = No Data Available

Section 15 - Regulatory Information**Safety, health and environmental regulations/legislation specific for the substance or mixture**

SARA Hazard Classifications • Acute, Chronic

Inventory		
Component	CAS	TSCA
Cristobalite	14464-46-1	Yes
Fatty acids, tall oil	61790-12-3	Yes
Feldspars	68476-25-5	Yes
Gas oil, blend	64741-44-2	Yes
Kaolin	1332-58-7	Yes
Magnesium oxide	1309-48-4	Yes
Potassium hydroxide	1310-58-3	Yes
Quartz	14808-60-7	Yes
Silicate, mica	12001-26-2	No
Sodium chloride	7647-14-5	Yes
Soybean oil	8001-22-7	Yes
Titanium dioxide	13463-67-7	Yes

United States

Labor**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Kaolin	1332-58-7	Not Listed
• Soybean oil	8001-22-7	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Silicate, mica	12001-26-2	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Potassium hydroxide	1310-58-3	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Cristobalite	14464-46-1	Not Listed
• Gas oil, blend	64741-44-2	Not Listed
• Feldspars	68476-25-5	Not Listed
• Fatty acids, tall oil	61790-12-3	Not Listed
• Quartz	14808-60-7	Not Listed

Environment**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• Kaolin	1332-58-7	Not Listed
• Soybean oil	8001-22-7	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Silicate, mica	12001-26-2	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Potassium hydroxide	1310-58-3	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Cristobalite	14464-46-1	Not Listed
• Gas oil, blend	64741-44-2	Not Listed
• Feldspars	68476-25-5	Not Listed
• Fatty acids, tall oil	61790-12-3	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Kaolin	1332-58-7	Not Listed
• Soybean oil	8001-22-7	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Silicate, mica	12001-26-2	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Potassium hydroxide	1310-58-3	1000 lb final RQ; 454 kg final RQ
• Sodium chloride	7647-14-5	Not Listed
• Cristobalite	14464-46-1	Not Listed
• Gas oil, blend	64741-44-2	Not Listed
• Feldspars	68476-25-5	Not Listed
• Fatty acids, tall oil	61790-12-3	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Kaolin	1332-58-7	Not Listed
• Soybean oil	8001-22-7	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Silicate, mica	12001-26-2	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Potassium hydroxide	1310-58-3	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Cristobalite	14464-46-1	Not Listed

• Gas oil, blend	64741-44-2	Not Listed
• Feldspars	68476-25-5	Not Listed
• Fatty acids, tall oil	61790-12-3	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Kaolin	1332-58-7	Not Listed
• Soybean oil	8001-22-7	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Silicate, mica	12001-26-2	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Potassium hydroxide	1310-58-3	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Cristobalite	14464-46-1	Not Listed
• Gas oil, blend	64741-44-2	Not Listed
• Feldspars	68476-25-5	Not Listed
• Fatty acids, tall oil	61790-12-3	Not Listed
• Quartz	14808-60-7	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Kaolin	1332-58-7	Not Listed
• Soybean oil	8001-22-7	Not Listed
• Magnesium oxide	1309-48-4	Not Listed
• Silicate, mica	12001-26-2	Not Listed
• Titanium dioxide	13463-67-7	carcinogen, 9/2/2011 (airborne, unbound particles of respirable size)
• Potassium hydroxide	1310-58-3	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Cristobalite	14464-46-1	Not Listed
• Gas oil, blend	64741-44-2	Not Listed
• Feldspars	68476-25-5	Not Listed
• Fatty acids, tall oil	61790-12-3	Not Listed
• Quartz	14808-60-7	carcinogen, 10/1/1988 (airborne particles of respirable size)

Other Information

- **WARNING:** This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Revision Date

- 20/November/2015

Preparation Date

- 26/October/2015

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