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

(via inhalation)

Specific Target Organ Toxicity Repeated Exposure 1

(via inhalation)

Label elements

OSHA HCS 2012

DANGER







Hazard statements • Causes severe skin burns and eye damage. Causes serious eye damage

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OSHA HCS 2012

Harmful if inhaled

Prolonged or repeated inhalation of dust may cause cancer or damage to organs

Precautionary statements

Prevention • Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not grind, saw, sand, or otherwise create dust. Do not breathe dust, mist, vapors, 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 SWALLÓWED: 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/m³ 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	

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Potassium hydroxide	CAS :1310-58	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	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 mouthto-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 • Containers may explode when heated. Hazards

Hazardous Combustion Products

Advice for firefighters

 Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive fumes.

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/m3 TWA (inhalable fraction)	Not established	15 mg/m3 TWA (fume, total particulate)		
Potassium hydroxide (1310-58-3)	Ceilings	2 mg/m3 Ceiling	2 mg/m3 Ceiling	Not established		
Silicate, mica (12001-26-2)	TWAs	3 mg/m3 TWA (respirable fraction)	3 mg/m3 TWA (containing <1% Quartz, respirable dust)	Not established		

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Cristobalite (14464-46-1)	IIIVVAS	0.025 mg/m3 TWA (respirable fraction)	0.05 mg/m3 TWA (respirable dust)	Not established
Titanium dioxide (13463-67-7)	TWAs	10 mg/m3 TWA	Not established	15 mg/m3 TWA (total dust)
Quartz (14808-60-7)	IIIVVAS	0.025 mg/m3 TWA (respirable fraction)	0.05 mg/m3 TWA (respirable dust)	Not established
Kaolin (1332-58-7)	TWAs	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	15 mg/m3 TWA (total dust); 5 mg/m3 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	рН	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		

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Environmental					
Octanol/Water Partition coefficient	No data available				

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; Behavioral:Food intake (animal)
Gas oil, blend (0% TO 33%)	64741- 44-2	Acute Toxicity: Ingestion/Oral-Rat LDLo • >5 g/kg; Behavioral:Somnolence (general depressed activity); Gastrointestinal:Hypermotility, diarrhea; Inhalation-Rat LC50 • 1700 mg/m³ 4 Hour(s); Irritation: Skin-Rabbit • 500 mg • Moderate irritation; Tumorigen / Carcinogen: Skin-Mouse TDLo • 29250 mg/kg 20 Week(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria; Skin and Appendages:Other:Tumors; Lungs, Thorax, or Respiration:Tumors
Quartz (< 1.2%)	14808- 60-7	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; Inhalation-Rat TCLo • 200 mg/kg; Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Other changes; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Fe; Multi-dose Toxicity: Inhalation-Hamster TCLo • 3 mg/m³ 6 Hour(s) 78 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Changes in lung weight; Inhalation-Rat TCLo • 6.2 mg/m³ 6 Hour(s) 6 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Other changes; Blood:Changes in spleen; Immunological Including Allergic:Increase in cellular immune response; Inhalation-Rat TCLo • 80 mg/m³ 26 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Blood:Changes in spleen; Immunological Including Allergic:Decrease in cellular immune response; Mutagen: Micronucleus test • Unreported Route-Hamster • Lung (Somatic cell) • 160 μg/cm³; DNA damage • Unreported Route-Human • Other Cell Type • 120 mg/L 24 Hour(s); Micronucleus test • Unreported Route-Human • Lung (Somatic cell) • 40 μg/cm³; Tumorigen / Carcinogen: Inhalation-Rat TCLo • 50 mg/m³ 6 Hour(s) 71 Week(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria; Liver:Tumors
		Multi-dose Toxicity: Inhalation-Hamster TCLo • 30 mg/m³ 48 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Tumors; Inhalation-Rat TCLo • 30 mg/m³ 96 Week(s) -Intermittent; Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Other changes;

Kaolin (4.3% TO 30.7%)	1332- 58-7	Lungs, Thorax, or Respiration:Tumors; Inhalation-Rat TCLo • 30 mg/m³ 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/m³ 5 Hour(s) 12 Day(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Other changes; Inhalation-Mouse TCLo • 43 mg/m³ 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/m³ 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/m³ 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/m³ 18 Hour(s) 2 Year(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Inhalation-Rat TCLo • 250 mg/m³ 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
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Inhalation 4 - ATEmix (inhl) = 2.2 mg/L 4H (dust/mist)
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Corrosion 1B
Serious eye damage/Irritation	OSHA HCS 2012 • Serious Eye Damage 1
Skin sensitization	OSHA HCS 2012 • No data available
Respiratory sensitization	OSHA HCS 2012 • No data available
Aspiration Hazard	OSHA HCS 2012 • No data available
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 1A
Germ Cell Mutagenicity	OSHA HCS 2012 • No data available
Toxicity for Reproduction	OSHA HCS 2012 • No data available
STOT-SE	OSHA HCS 2012 • No data available
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1

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 distrubances.

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

Mobility in Soil

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

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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

J.S OSHA - Process Safety Management - Highly Hazardous Chemicals		
• Kaolin	1332-58-7	Not Listed
Soybean oil	8001-22-7	Not Listed
 Magnesium oxide Silicate, mica Titanium dioxide Potassium hydroxide Sodium chloride Cristobalite Gas oil, blend Feldspars Fatty acids, tall oil 	1309-48-4	Not Listed
	12001-26-2	
	13463-67-7	
	1310-58-3	
	7647-14-5	
	14464-46-1	
	64741-44-2	
	68476-25-5	
	61790-12-3	
• Quartz	14808-60-7	Not Listed
Qualit	14000 00 7	Not Listed
Environment		
J.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants	4000 50 7	N. C.C. C. I
• Kaolin	1332-58-7	Not Listed
Soybean oil	8001-22-7	Not Listed
Magnesium oxide	1309-48-4	Not Listed
 Silicate, mica Titanium dioxide Potassium hydroxide Sodium chloride 	12001-26-2	Not Listed Not Listed
	13463-67-7	
	1310-58-3	Not Listed
	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
J.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
	1332-58-7	Not Listed
• Kaolin		Not Listed
KaolinSoybean oil	8001-22-7	
	8001-22-7 1309-48-4	Not Listed
Soybean oil		
Soybean oilMagnesium oxide	1309-48-4	Not Listed
 Soybean oil Magnesium oxide Silicate, mica Titanium dioxide 	1309-48-4 12001-26-2	Not Listed Not Listed Not Listed 1000 lb final RQ; 454 kg fina
 Soybean oil Magnesium oxide Silicate, mica Titanium dioxide Potassium hydroxide 	1309-48-4 12001-26-2 13463-67-7 1310-58-3	Not Listed Not Listed Not Listed 1000 lb final RQ; 454 kg fina RQ
 Soybean oil Magnesium oxide Silicate, mica Titanium dioxide Potassium hydroxide Sodium chloride 	1309-48-4 12001-26-2 13463-67-7 1310-58-3 7647-14-5	Not Listed Not Listed Not Listed 1000 lb final RQ; 454 kg fina RQ Not Listed
 Soybean oil Magnesium oxide Silicate, mica Titanium dioxide Potassium hydroxide Sodium chloride Cristobalite 	1309-48-4 12001-26-2 13463-67-7 1310-58-3 7647-14-5 14464-46-1	Not Listed Not Listed Not Listed 1000 lb final RQ; 454 kg fina RQ Not Listed Not Listed
 Soybean oil Magnesium oxide Silicate, mica Titanium dioxide Potassium hydroxide Sodium chloride Cristobalite Gas oil, blend 	1309-48-4 12001-26-2 13463-67-7 1310-58-3 7647-14-5 14464-46-1 64741-44-2	Not Listed Not Listed Not Listed 1000 lb final RQ; 454 kg fina RQ Not Listed Not Listed Not Listed
 Soybean oil Magnesium oxide Silicate, mica Titanium dioxide Potassium hydroxide Sodium chloride Cristobalite Gas oil, blend Feldspars 	1309-48-4 12001-26-2 13463-67-7 1310-58-3 7647-14-5 14464-46-1 64741-44-2 68476-25-5	Not Listed Not Listed Not Listed 1000 lb final RQ; 454 kg fina RQ Not Listed Not Listed Not Listed Not Listed Not Listed
 Soybean oil Magnesium oxide Silicate, mica Titanium dioxide Potassium hydroxide Sodium chloride Cristobalite Gas oil, blend Feldspars Fatty acids, tall oil 	1309-48-4 12001-26-2 13463-67-7 1310-58-3 7647-14-5 14464-46-1 64741-44-2 68476-25-5 61790-12-3	Not Listed Not Listed Not Listed 1000 lb final RQ; 454 kg fina RQ Not Listed
 Soybean oil Magnesium oxide Silicate, mica Titanium dioxide Potassium hydroxide Sodium chloride Cristobalite Gas oil, blend Feldspars Fatty acids, tall oil 	1309-48-4 12001-26-2 13463-67-7 1310-58-3 7647-14-5 14464-46-1 64741-44-2 68476-25-5	Not Listed Not Listed Not Listed 1000 lb final RQ; 454 kg fina RQ Not Listed Not Listed Not Listed Not Listed Not Listed
 Soybean oil Magnesium oxide Silicate, mica Titanium dioxide Potassium hydroxide Sodium chloride Cristobalite Gas oil, blend Feldspars Fatty acids, tall oil Quartz J.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs 	1309-48-4 12001-26-2 13463-67-7 1310-58-3 7647-14-5 14464-46-1 64741-44-2 68476-25-5 61790-12-3 14808-60-7	Not Listed Not Listed Not Listed 1000 lb final RQ; 454 kg fina RQ Not Listed
 Soybean oil Magnesium oxide Silicate, mica Titanium dioxide Potassium hydroxide Sodium chloride Cristobalite Gas oil, blend Feldspars Fatty acids, tall oil Quartz J.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs Kaolin 	1309-48-4 12001-26-2 13463-67-7 1310-58-3 7647-14-5 14464-46-1 64741-44-2 68476-25-5 61790-12-3 14808-60-7	Not Listed Not Listed Not Listed 1000 lb final RQ; 454 kg final RQ Not Listed
 Soybean oil Magnesium oxide Silicate, mica Titanium dioxide Potassium hydroxide Sodium chloride Cristobalite Gas oil, blend Feldspars Fatty acids, tall oil Quartz U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs Kaolin Soybean oil 	1309-48-4 12001-26-2 13463-67-7 1310-58-3 7647-14-5 14464-46-1 64741-44-2 68476-25-5 61790-12-3 14808-60-7	Not Listed Not Listed Not Listed 1000 lb final RQ; 454 kg final RQ Not Listed
 Soybean oil Magnesium oxide Silicate, mica Titanium dioxide Potassium hydroxide Sodium chloride Cristobalite Gas oil, blend Feldspars Fatty acids, tall oil Quartz J.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs Kaolin Soybean oil Magnesium oxide 	1309-48-4 12001-26-2 13463-67-7 1310-58-3 7647-14-5 14464-46-1 64741-44-2 68476-25-5 61790-12-3 14808-60-7 1332-58-7 8001-22-7 1309-48-4	Not Listed Not Listed Not Listed 1000 lb final RQ; 454 kg final RQ Not Listed
 Soybean oil Magnesium oxide Silicate, mica Titanium dioxide Potassium hydroxide Sodium chloride Cristobalite Gas oil, blend Feldspars Fatty acids, tall oil Quartz J.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs Kaolin Soybean oil Magnesium oxide Silicate, mica 	1309-48-4 12001-26-2 13463-67-7 1310-58-3 7647-14-5 14464-46-1 64741-44-2 68476-25-5 61790-12-3 14808-60-7 1332-58-7 8001-22-7 1309-48-4 12001-26-2	Not Listed Not Listed Not Listed 1000 lb final RQ; 454 kg final RQ Not Listed
 Soybean oil Magnesium oxide Silicate, mica Titanium dioxide Potassium hydroxide Sodium chloride Cristobalite Gas oil, blend Feldspars Fatty acids, tall oil Quartz J.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs Kaolin Soybean oil Magnesium oxide Silicate, mica Titanium dioxide 	1309-48-4 12001-26-2 13463-67-7 1310-58-3 7647-14-5 14464-46-1 64741-44-2 68476-25-5 61790-12-3 14808-60-7 1332-58-7 8001-22-7 1309-48-4 12001-26-2 13463-67-7	Not Listed Not Listed Not Listed 1000 lb final RQ; 454 kg final RQ Not Listed
 Soybean oil Magnesium oxide Silicate, mica Titanium dioxide Potassium hydroxide Sodium chloride Cristobalite Gas oil, blend Feldspars Fatty acids, tall oil Quartz U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs Kaolin Soybean oil 	1309-48-4 12001-26-2 13463-67-7 1310-58-3 7647-14-5 14464-46-1 64741-44-2 68476-25-5 61790-12-3 14808-60-7 1332-58-7 8001-22-7 1309-48-4 12001-26-2	Not Listed Not Listed Not Listed 1000 lb final RQ; 454 kg final RQ 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	4000 50 7	NI-41 i-4- d
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
		carcinogen, 9/2/2011
Titanium dioxide	13463-67-7	(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
•		carcinogen, 10/1/1988
• Quartz	14808-60-7	(airborne particles of
		respirable size)
		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

Preparation Date

• 13/April/2016

26/October/2015

Disclaimer/Statement of Liability

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