

Aggravated Medical Conditions Respiratory disorders. Lungs.

Environmental Hazard Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Limestone	1317-65-3	30-60
Glass, oxide	65997-17-3	30-60
Modified Rosin Ester	Proprietary	10-30
Paraffin	8002-74-2	7-13
Maleic Modified Rosin Ester	Proprietary	7-13
Chrome yellow (Lead chromate pigment)	1344-37-2	7-13
Calcium carbonate	471-34-1	3-7
Quartz	14808-60-7	3-7
Phthalate Plasticizer	Proprietary	1-5
Titanium dioxide	13463-67-7	1-5
Antimony trioxide	1309-64-4	<0.1

4. FIRST AID MEASURES

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Contact with molten materials, requires immediate medical assistance.

Skin Contact Wash off with warm water and soap. If skin irritation persists, call a physician. In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin. Removal of solidified molten material from skin requires medical assistance. If burned by contact with molten material, remove patient from heat source. Remove smoldering clothing, including shoes, boots and jewelry. Cool the burn with water or saline until the skin returns to normal temperature. Cover patient with dry clean sheet. Do not attempt to remove the molten thermoplastic from the skin. Removal could result in severe tissue damage. Do not use ice. Conduct primary survey. If indicated transport patient to emergency treatment facility.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion Clean mouth with water and afterwards drink plenty of water. Consult a physician.

Notes to Physician Treat symptomatically.

Protection of First-aiders Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable.

Flash Point > 500 °F

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Hazardous Combustion Products Lead and chromium compounds.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	Health Hazard 1	Flammability 1	Instability 0	Physical and Chemical Hazards - Personal Protection X
HMIS	Health Hazard 2*	Flammability 0	Physical Hazard 0	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

Environmental Precautions Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Use personal protective equipment. Avoid dust formation. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Handling Ensure adequate ventilation. Avoid breathing dust. Wear personal protective equipment. Avoid dust formation. Fine dust dispersed in air may ignite.

Do not heat over 500°F in a closed container. This product when heated to above 500°F can lead to flashing. Appropriate protective equipment must be worn when mixing and applying this product.

The thermoplastic bag can be hazardous when empty, because it can retain product residue. Therefore do not reuse container for food, clothing, or products for human or animal consumption or where skin contact may occur. Always obey hazard warnings and handle containers as if they were full.

The meltable bag is compatible with the thermoplastic allowing them to melt and become part of the hot melt mixture at application temperature.

Storage Keep container tightly closed. Keep in properly labeled containers. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Limestone 1317-65-3	-	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust
Paraffin 8002-74-2	TWA: 2 mg/m ³	(vacated) TWA: 2 mg/m ³	TWA: 2 mg/m ³
Chrome yellow (Lead chromate pigment) 1344-37-2	TWA: 0.05 mg/m ³ Pb	TWA: 5 µg/m ³ TWA: 50 µg/m ³ Pb Action Level: 2.5 µg/m ³ Cr Action Level: 30 µg/m ³ Pb Poison, See 29 CFR 1910.1025	IDLH: 100 mg/m ³ Pb TWA: 0.050 mg/m ³ Pb
Calcium carbonate 471-34-1	-	TWA: 15 mg/m ³ TWA: 5 mg/m ³ (vacated) TWA: 15 mg/m ³ (vacated) TWA: 5 mg/m ³	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust
Quartz 14808-60-7	TWA: 0.025 mg/m ³ respirable fraction	30/(%SiO ₂ +2) mg/m ³ TWA, Total Dust; 250/(%SiO ₂ +5) mppcf TWA, respirable fraction; 10/(%SiO ₂ +2) mg/m ³ TWA, respirable TWA: 0.1 mg/m ³ (vacated)	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust	IDLH: 5000 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment

Eye/Face Protection

Safety glasses with side-shields. For handling molten material, use of a faceshield is recommended.

Skin and Body Protection

Protective gloves. When handling molten materials, use of long sleeved shirts is required.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White.	Odor	Odorless.
Odor Threshold	Not applicable	Physical State	Solid
pH	Not applicable		
Flash Point	> 500 °F	Autoignition Temperature	Not applicable
Decomposition Temperature	Not applicable	Boiling Point/Boiling Range	Not applicable
Melting Point/Range	95-120 °C / 203-248 °F		
		Flammability Limits in Air	Not applicable
Explosion Limits	Not applicable		
Specific Gravity	1.7-2.3	Water Solubility	Insoluble in water.
Solubility	Not applicable	Evaporation Rate	Not applicable
Vapor Pressure	Not applicable	Vapor Density	Not applicable
VOC (g/l)	0		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	None known based on information supplied.
Conditions to Avoid	Dust formation.
Hazardous Decomposition Products	Carbon oxides. Nitrogen oxides (NOx). Maleic acid.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information May be harmful if inhaled.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Paraffin	> 3750 mg/kg (Rat)	> 3600 mg/kg (Rabbit)	-
Chrome yellow (Lead chromate pigment)	> 5000 mg/kg (Rat)		
Calcium carbonate	= 6450 mg/kg (Rat)		
Phthalate Plasticizer	> 9750 mg/kg (Rat)		>4.4 mg/L (Rat) 4 h
Titanium dioxide	> 10000 mg/kg (Rat)		> 6820 mg/m ³
Molybdate orange (Lead chromate pigment)	> 5000 mg/kg (Rat)		
Antimony trioxide	> 34600 mg/kg (Rat)		

Chronic Toxicity

Chronic Toxicity

Inhalation overexposure to free crystalline silica may cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation.

Carcinogenicity

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
Glass, oxide		Group 3		
Chrome yellow (Lead chromate pigment)	A3	Group 2A Group 1	Known Reasonably Anticipated	X
Quartz	A2	Group 1	Known	X
Titanium dioxide		Group 2B		X
Antimony trioxide	A2	Group 2B		X

ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

A4 - Not Classifiable as a Human Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3: Not Classifiable as to its Carcinogenicity to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

Reproductive Toxicity

Reproductive effects of lead have been shown on the male reproductive system and on fertility in humans exposed to lead.

Developmental Toxicity

It is anticipated that lead will affect the developing fetus and has been shown to cause embryo-toxic and fetotoxic effects in animals studies. No teratogenic effects were noted.

Target Organ Effects

Lungs. Respiratory system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Chrome yellow (Lead chromate pigment)		LC50 96 h: > 10000 mg/L static (Leuciscus idus)	EC50 > 10000 mg/L 30 min	
Phthalate Plasticizer	EC50 96 h: > 1.8 mg/L static (Pseudokirchneriella subcapitata) EC50 72 h: > 500 mg/L (Desmodesmus subspicatus)	LC50 96 h: > 0.14 mg/L flow-through (Lepomis macrochirus) LC50 96 h: > 0.14 mg/L static (Pimephales promelas) LC50 96 h: > 0.17 mg/L static (Lepomis macrochirus) LC50 96 h: > 0.19 mg/L flow-through (Pimephales promelas) LC50 96 h: > 100 mg/L semi-static (Brachydanio rerio) LC50 96 h: > 500 mg/L static (Leuciscus idus)		EC50 48 h: > 0.06 mg/L Static (Daphnia magna) EC50 48 h: > 500 mg/L (Daphnia magna)
Antimony trioxide	EC50 72 h: 0.63 - 0.8 mg/L (Pseudokirchneriella subcapitata) EC50 96 h: 0.65 - 0.81 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: > 1000 mg/L static (Brachydanio rerio) LC50 96 h: > 80 mg/L static (Pimephales promelas)	EC50 > 3.5 mg/L 7 h	EC50 48 h: 361.5 - 496.0 mg/L Static (Daphnia magna) EC50 48 h: > 1000 mg/L (Daphnia magna)

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Do not re-use empty containers.

US EPA Waste Number

Not applicable

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Chrome yellow (Lead chromate pigment)	Toxic Corrosive Ignitable
Antimony trioxide	Toxic

14. TRANSPORT INFORMATION

DOT	Not regulated (Product as shipped)
Proper shipping name	Elevated temperature liquid, n.o.s. (Product in use)
Description	ELEVATED TEMPERATURE MATERIAL, LIQUID, N.O.S.(COMPOUND PAVEMENT MARKING), 9, UN 3257, III. (Product in use)
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	All components are listed on the TSCA Inventory.
DSL	All components are listed either on the DSL or NDSL.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Chrome yellow (Lead chromate pigment)	1344-37-2	5-10	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Chrome yellow (Lead chromate pigment)		X		
Phthalate Plasticizer		X		

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Chrome yellow (Lead chromate pigment)	1344-37-2	Carcinogen Developmental Female Reproductive Male Reproductive
Quartz	14808-60-7	Carcinogen
Titanium dioxide	13463-67-7	Carcinogen
Molybdate orange (Lead chromate pigment)	12656-85-8	Carcinogen Developmental
Antimony trioxide	1309-64-4	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Limestone	X	X	X		X
Paraffin	X	X	X	-	X
Chrome yellow (Lead chromate pigment)			X	X	X
Quartz	X	X	X	-	X
Phthalate Plasticizer			X		
Titanium dioxide	X	X	X	-	X
Molybdate orange (Lead chromate pigment)	X		X	X	X
Antimony trioxide	X	X	X	X	X

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Limestone		Mexico: TWA 10 mg/m ³ Mexico: STEL 20 mg/m ³
Paraffin		Mexico: TWA= 2 mg/m ³ Mexico: STEL= 6 mg/m ³
Chrome yellow (Lead chromate pigment)	A1 A3	Mexico: TWA 0.15 mg/m ³ Mexico: TWA 0.01 mg/m ³
Quartz		Mexico: TWA= 0.1 mg/m ³
Titanium dioxide		Mexico: TWA= 10 mg/m ³ Mexico: STEL= 20 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2A Very toxic materials

D2B Toxic materials



Canadian National Pollutant Release Inventory (NPRI)

Component	NPRI
Chrome yellow (Lead chromate pigment) 1344-37-2 (7-13)	X
Antimony trioxide 1309-64-4 (<0.1)	X

Legend

X - Listed

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Prepared By Product Stewardship
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General Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication and it does not purport to be all inclusive and shall be used only as a guide. We urge each customer or recipient of this MSDS to study it carefully to become aware of and understand the potential hazards associated with the product. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Any use of the product not in conformance with this MSDS or in combination with any other product or process is the responsibility of the user. Customary precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Remove all soiled and contaminated clothing immediately.

End of Safety Data Sheet