

HAZARDS IDENTIFICATION**(ANSI Section 3)****Primary route(s) of exposure :** Inhalation, skin contact, eye contact, ingestion.**Effects of overexposure :****Inhalation :** Irritation of respiratory tract. Prolonged inhalation may lead to coughing, difficulty of breathing, bronchitis, pulmonary edema.**Skin contact :** Irritation of skin. Prolonged or repeated contact can cause dermatitis, severe skin irritation or burns. Possible sensitization to skin.**Eye contact :** Irritation of eyes. Prolonged or repeated contact can cause conjunctivitis, tearing of eyes, redness of eyes, severe eye irritation, severe eye irritation or burns, corneal injury.**Ingestion :** Ingestion may cause mouth and throat irritation, mucous membrane irritation, nausea, vomiting, diarrhea, gastro-intestinal disturbances, abdominal pain, central nervous system depression, severe irritation of the mouth, throat, stomach.**Medical conditions aggravated by exposure :** Eye, skin, respiratory disorders, respiratory disorders.**FIRST-AID MEASURES****(ANSI Section 4)****Inhalation :** Remove to fresh air. Restore and support continued breathing. Get emergency medical attention. Have trained person give oxygen if necessary. Get medical help for any breathing difficulty. Remove to fresh air if inhalation causes eye watering, headaches, dizziness, or other discomfort.**Skin contact :** Wash thoroughly with soap and water. If any product remains, gently rub petroleum jelly, vegetable or mineral/baby oil onto skin. Repeated applications may be needed. Remove contaminated clothing. Wash contaminated clothing before re-use.**Eye contact :** Flush immediately with large amounts of water, especially under lids for at least 15 minutes. If irritation or other effects persist, obtain medical treatment.**Ingestion :** If swallowed, obtain medical treatment immediately.**FIRE-FIGHTING MEASURES****(ANSI Section 5)****Fire extinguishing media :** Dry chemical or foam water fog. Carbon dioxide. Closed containers may burst if exposed to extreme heat or fire. May decompose under fire conditions emitting irritant and/or toxic gases.**Fire fighting procedures :** Water may be used to cool and protect exposed containers. Firefighters should use full protective clothing, eye protection, and self-contained breathing apparatus.**Hazardous decomposition or combustion products :** Carbon monoxide, carbon dioxide, oxides of sulfur, toxic gases. Oxides of calcium.**ACCIDENTAL RELEASE MEASURES****(ANSI Section 6)****Steps to be taken in case material is released or spilled :** Comply with all applicable health and environmental regulations. Ventilate area. Evacuate all unnecessary personnel. Place collected material in proper container. Complete personal protective equipment must be used during cleanup. Large spills - shut off leak if safe to do so. Dike and contain spill. Pump to storage or salvage vessels. Use absorbent to pick up excess residue. Keep salvageable material and rinse water out of sewers and water courses. Small spills - use absorbent to pick up residue and dispose of properly.**HANDLING AND STORAGE****(ANSI Section 7)****Handling and storage :** Store below 100f (38c). Keep away from heat, sparks and open flame.**Other precautions :** Use only with adequate ventilation. Do not take internally. Keep out of reach of children. Avoid contact with skin and eyes, and breathing of vapors. Wash hands thoroughly after handling, especially before eating or smoking. Keep containers tightly closed and upright when not in use. Avoid conditions which result in formation of inhalable particles such as spraying or abrading

(sanding) painted surfaces. If such conditions cannot be avoided, use appropriate respiratory protection as directed under exposure controls/personal protection.

EXPOSURE CONTROLS/PERSONAL PROTECTION**(ANSI Section 8)****Respiratory protection :** Where respiratory protection is required, use only NIOSH/ MSHA approved respirators in accordance with OSHA standard 29 CFR 1910.134.**Ventilation :** Provide dilution ventilation or local exhaust to prevent build-up of vapors.**Personal protective equipment :** Eye wash, safety shower, safety glasses or goggles. Impervious gloves, impervious clothing, face shield.**STABILITY AND REACTIVITY****(ANSI Section 10)****Under normal conditions :** Stable see section 5 fire fighting measures**Materials to avoid :** Oxidizers, acids, reducing agents, bases, halogens, water, aluminum, ammonium salts, halogenated compounds, combustible materials, hydrogen fluoride, magnesium.**Conditions to avoid :** Elevated temperatures, moisture, contact with oxidizing agent, organic matter, high concentration of dust, sparks, open flame. Contact with combustible materials**Hazardous polymerization :** Will not occur**TOXICOLOGICAL INFORMATION****(ANSI Section 11)****Supplemental health information :** Excessive inhalation of fumes may lead to metal fume fever characterized by a metallic taste in mouth, excessive thirst, coughing, weakness, fatigue, muscular pain, nausea, chills and fever. Contains iron oxide, repeated or prolonged exposure to iron oxide dust may cause siderosis, a benign pneumoconiosis.**Carcinogenicity :** Contains crystalline silica which is considered a hazard by inhalation. IARC has classified crystalline silica as carcinogenic to humans (group 1). Crystalline silica is also a known cause of silicosis, a noncancerous lung disease. The national toxicology program (NTP) has classified crystalline silica as a known human carcinogen. In a lifetime inhalation study, exposure to 250 mg/m3 titanium dioxide resulted in the development of lung tumors in rats. These tumors occurred only at dust levels that overwhelmed the animals' lung clearance mechanisms and were different from common human lung tumors in both type and location. The relevance of these findings to humans is unknown but questionable. The international agency for research on cancer (IARC) has classified titanium dioxide as possibly carcinogenic to humans (group 2b) based on inadequate evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.**Reproductive effects :** No reproductive effects are anticipated**Mutagenicity :** No mutagenic effects are anticipated**Teratogenicity :** No teratogenic effects are anticipated**ECOLOGICAL INFORMATION****(ANSI Section 12)**

No ecological testing has been done by ICI paints on this product as a whole.

DISPOSAL CONSIDERATIONS**(ANSI Section 13)****Waste disposal :** Dispose in accordance with all applicable regulations.**REGULATORY INFORMATION****(ANSI Section 15)**

As of the date of this MSDS, all of the components in this product are listed (or are otherwise exempt from listing) on the TSCA inventory. This product has been classified in accordance with the hazard

criteria of the CPR (controlled products regulations) and the MSDS contains all the information required by the CPR.

Physical Data (ANSI Sections 1, 9, and 14)

Product Code	Description	Wt. / Gal.	VOC gr. / ltr.	% Volatile by Volume	Flash Point	Boiling Range	HMIS	DOT, proper shipping name
3110-1200	blockaid filler	24.20	1.25	0.24	none	46- 46	*310	paint related material

Ingredients Product Codes with % by Weight (ANSI Section 2)

Chemical Name	Common Name	CAS. No.	3110-1200
calcium oxide	calcium oxide	1305-78-8	1-5
iron oxide	ferric oxide	1309-37-1	1-5
magnesium oxide	magnesium oxide	1309-48-4	1-5
limestone	limestone	1317-65-3	1-5
titanium oxide	titanium dioxide	13463-67-7	1-5
quartz	quartz	14808-60-7	20-30
acetic acid ethenyl ester, polymer with ethenol	polyvinyl alcohol	25213-24-5	1-5
calcium formate	calcium formate	544-17-2	1-5
cement, portland, chemicals	cement, portland	65997-15-1	50-60
chromium	chromium	7440-47-3	.01-.1
sulfuric acid, calcium salt (1:1)	calcium sulfate	7778-18-9	1-5

Chemical Hazard Data (ANSI Sections 2, 8, 11, and 15)

		ACGIH-TLV				OSHA-PEL				S.R. Std.	S2	S3	CC					
Common Name	CAS. No.	8-Hour TWA	STEL	C	S	8-Hour TWA	STEL	C	S					H	M	N	I	O
calcium oxide	1305-78-8	2 mg/m3	not est.	not est.	not est.	5 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	
ferric oxide	1309-37-1	5 mg/m3	not est.	not est.	not est.	5 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	
magnesium oxide	1309-48-4	10 mg/m3	not est.	not est.	not est.	15 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	
limestone	1317-65-3	10 mg/m3	not est.	not est.	not est.	5 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	
titanium dioxide	13463-67-7	10 mg/m3	not est.	not est.	not est.	10 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	y	y	n	
quartz	14808-60-7	.025 mg/m3	not est.	not est.	not est.	0.1 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	y	y	n	
polyvinyl alcohol	25213-24-5	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	
calcium formate	544-17-2	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	
cement, portland	65997-15-1	10 mg/m3	not est.	not est.	not est.	5 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	
chromium	7440-47-3	0.5 mg/m3	not est.	not est.	not est.	1 mg/m3	not est.	not est.	not est.	not est.	n	y	y	y	n	n	y	
calcium sulfate	7778-18-9	10 mg/m3	not est.	not est.	not est.	5 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	

Footnotes:
C=Ceiling - Concentration that should not be exceeded, even instantaneously.

S=Skin - Additional exposure, over and above airborne exposure, may result from skin absorption.

n/a=not applicable
not est=not established
CC=CERCLA Chemical

ppm=parts per million
mg/m3=milligrams per cubic meter
Sup Conf=Supplier Confidential

S2=Sara Section 302 EHS
S3=Sara Section 313 Chemical
S.R.Std.=Supplier Recommended Standard

H=Hazardous Air Pollutant, M=Marine Pollutant
P=Pollutant, S=Severe Pollutant
Carcinogenicity Listed By:
N=NTP, I=IARC, O=OSHA, y=yes, n=no