DEVGUARD 4120 ALL-PURPOSE METAL & GALVANIZED PRIMER





MATERIAL SAFETY DATA SHEET

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 loss of appetite, mucous membrane irritation, fatigue, drowsiness, dizziness and/or lightheadedness, headache, uncoordination, nausea, vomiting, diarrhea, coughing, central nervous system depression, intoxication, metallic taste, difficulty of breathing, fever and chills, dehydration, severe lung irritation or damage, liver damage, kidney damage, convulsions, loss of consciousness, asphyxiation.

Skin contact: Irritation of skin. Prolonged or repeated contact can cause dermatitis, defatting, allergic response. Skin contact may result in dermal absorption of component(s) of this product which may cause central nervous system depression.

Eye contact: Irritation of eyes. Prolonged or repeated contact can cause conjunctivitis, tearing of eyes, redness of eyes, severe eye irritation.

Ingestion: Ingestion may cause lung inflammation and damage due to aspiration of material into lungs, mouth and throat irritation, mucous membrane irritation, drowsiness, dizziness and/or lightheadedness, headache, uncoordination, nausea, vomiting, diarrhea, gastro-intestinal disturbances, central nervous system depression, metallic taste, difficulty of breathing, kidney damage, convulsions, loss of consciousness, cyanosis.

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 explode when exposed to extreme heat or fire. Vapors are heavier than air and may travel long distances to a source of ignition and flash back. Vapors can form explosive mixtures in air at elevated temperatures. May decompose under fire conditions emitting irritant and/or toxic gases. Rags, steel wool or waste soaked with this material may spontaneously catch fire if improperly discarded. Immediately after use, place soaked rags, steel wool or waste in a sealed water-filled metal container.

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. Selfcontained breathing apparatus recommended.

Hazardous decomposition or combustion products: Carbon monoxide, carbon dioxide, oxides of nitrogen, acrolein, ammonia, aldehydes, toxic gases, barium compounds.

ACCIDENTAL RELEASE MEASURES

(ANSI Section 6)

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Steps to be taken in case material is released or spilled: Comply with all applicable health and environmental regulations. Eliminate all sources of ignition. Ventilate area. Spills may be collected with absorbent materials. Evacuate all unnecessary personnel. Place collected material in proper container. 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. Empty containers may contain hazardous residues. Ground equipment when transferring to prevent accumulation of static charge. Avoid spontaneous combustion of contaminated rags and other easily ignitable organic accumulations.

EXPOSURE CONTROLS/PERSONAL PROTECTION (ANSI Section 8)

Respiratory protection: Control environmental concentrations below applicable exposure standards when using this material. When respiratory protection is determined to be necessary, use a NIOSH/MSHA (Canadian z94.4) Approved elastomeric sealing- surface facepiece respirator outfitted with organic vapor cartridges and paint spray (dust/mist) prefilters. Determine the proper level of protection by conducting appropriate air monitoring. Consult 29CFR1910.134 For selection of respirators (Canadian z94.4).

Ventilation: Provide dilution ventilation or local exhaust to prevent build-up of vapors. Use explosion-

Personal protective equipment: Eye wash, safety shower, safety glasses or goggles. Impervious gloves, impervious clothing, boots.

STABILITY AND REACTIVITY

(ANSI Section 10)

Under normal conditions: Stable stable below 212 f (100 c). See section 5 fire fighting measures

Materials to avoid: Oxidizers, acids, bases.

Conditions to avoid: Elevated temperatures, contact with oxidizing agent, sparks, open flame, ignition

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. Notice - reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Prolonged inhalation of mica may cause pneumoconiosis. Symptoms may include a progressive dry cough, shortness of breath on exertion, decreased chest expansion, weakness and weight loss.

Carcinogenicity: Inhalation of non-asbestiform cosmetic grade talc for 2 years at 6 and 18 mg/m3 produced clear evidence of carcinogenicity in female rats (lung and adrenal tumors) and some evidence of carcinogenicity in male rats (adrenal tumors). No evidence of carcinogenicity was demonstrated in male and female mice exposed under the same conditions. Microscopic examination of the lungs of rats and mice exposed to talc revealed additional exposure related effects primarily associated with the inflammatory response. Stoddard solvent iic has been shown to cause kidney tumors in male rats in a national toxicology program (NTP) study. These tumors were associated with a specific protein, alpha-2u-microglobulin. Because humans do not produce this protein stoddard solvent iic has not been classified as a human carcinogen. The international agency for research on cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen (group 2b) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. In a 2 year inhalation study conducted by the national toxicology program (NTP), ethylbenzene vapor at 750 ppm produced kidney and testicular tumors in rats and lung and liver tumors in mice. Genetic toxicity studies showed no genotoxic effects. The relevance of these results to humans is not known. 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: High exposures to xylene in some animal studies, often at maternally toxic levels, have affected embryo/fetal development. The significance of this finding to humans is not known.

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. Avoid discharge to natural waters.

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	нміѕ	DOT, proper shipping name
4120-1000	devguard 4120 all purpose metal & galvanized primer white	10.81	385.04	48.66	102 f	277-365	320	UN1263, paint, combustible liquid, PGIII

Ingredients

Product Codes with % by Weight (ANSI Section 2)

Chemical Name	Common Name	CAS. No.	4120-1000
benzene, ethyl-	ethylbenzene	100-41-4	.1-1.0
mica	mica	12001-26-2	1-5
antigorite	antigorite	12135-86-3	1-5
zinc oxide	zinc oxide	1314-13-2	1-5
benzene, dimethyl-	xylene	1330-20-7	.1-1.0
titanium oxide	titanium dioxide	13463-67-7	5-10
boric acid,(hbo2) barium salt	barium metaborate	13701-59-2	5-10
tremolite, nonasbestiform	tremolite	14567-73-8	5-10
talc	talc	14807-96-6	5-10
anthophyllite, nonasbestiform	anthophyllite	17068-78-9	1-5
solvent naphtha (petroleum), medium aliphatic	medium aliphatic solvent naphtha	64742-88-7	5-10
quaternary ammonium compounds, bis(hydrogenated tallow alkyl)di=methyl, salts with bentonite	dispersant, organoclay	68953-58-2	1-5
linseed oil	linseed oil	8001-26-1	5-10
stoddard solvent	mineral spirits	8052-41-3	10-20
alkyd resin	alkyd resin	Sup. Conf.	10-20
trade secret	trade secret	Sup. Conf.	1-5

Chemical Hazard Data

(ANSI Sections 2, 8, 11, and 15)

			ACGIH-TLV				OSHA	S.R.	S2 S3 CC						
Common Name	CAS. No.	8-Hour TWA	STEL	C	S	8-Hour TWA	STEL	С	S	Std.	32 33 66	Н	M	NI	0
ethylbenzene	100-41-4	100 ppm	125 ppm	not est.	not est.	100 ppm	not est.	not est.	not est.	not est.	n y y	У	n	n y	n
mica	12001-26-2	3 mg/m3	not est.	not est.	not est.	3 mg/m3	not est.	not est.	not est.	not est.	n n n	n	n	n n	n
antigorite	12135-86-3	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	n

Footnotes:

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

S=Skin - Additional exposure, over and above airborn 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

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

Common Name CAS. No.		ACGIH-TLV					S.R.	62	S3	CC								
		8-Hour TWA	STEL	С	S	8-Hour TWA	STEL	С	s	Std.	32	33	CC	Н	М	N	ı	0
zinc oxide	1314-13-2	2 mg/m3	10 mg/m3	not est.	not est.	5 mg/m3	not est.	not est.	not est.	not est.	n	У	n	n	n	n	n	n
xylene	1330-20-7	100 ppm	150 ppm	not est.	not est.	100 ppm	not est.	not est.	not est.	not est.	n	У	У	у	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	n	у	у	n
barium metaborate	13701-59-2	0.5 mg/m3	not est.	not est.	not est.	0.5 mg/m3	not est.	not est.	not est.	not est.	n	У	n	n	n	n	n	n
tremolite	14567-73-8	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	n
talc	14807-96-6	2 mg/m3	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
anthophyllite	17068-78-9	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	n
medium aliphatic solvent naphtha	64742-88-7	not est.	not est.	not est.	not est.	500 x ppm	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
dispersant, organoclay	68953-58-2	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	n
linseed oil	8001-26-1	10 mg/m3	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
mineral spirits	8052-41-3	100 ppm	not est.	not est.	not est.	500 ppm	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
trade secret	Sup. Conf.	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	n

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