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, nausea, vomiting, diarrhea, coughing, central nervous system depression, intoxication, difficulty of breathing, blood abnormalities, tremors, severe lung irritation or damage, liver damage, kidney damage, convulsions, loss of consciousness, asphyxiation. Possible sensitization to respiratory
- Skin contact: Irritation of skin. Prolonged or repeated contact can cause dermatitis, defatting. Skin contact may result in dermal absorption of component(s) of this product which may cause fatigue, drowsiness, dizziness and/or lightheadedness, headache, nausea, vomiting, diarrhea, central nervous system depression, liver damage, kidney damage.
- Eye contact: Irritation of eyes. Prolonged or repeated contact can cause conjunctivitis, tearing of eyes, redness of eyes, corneal injury.
- **Ingestion:** Ingestion may cause lung inflammation and damage due to aspiration of material into lungs, mucous membrane irritation, fatigue, drowsiness, dizziness and/or lightheadedness, headache, nausea, vomiting, diarrhea, gastro-intestinal disturbances, abdominal pain, central nervous system depression, intoxication, liver damage, kidney damage, pulmonary edema.

Medical conditions aggravated by exposure: Eye, skin, respiratory disorders, asthma-like conditions.

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. If irritation occurs, consult a
- 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. 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. Closed containers may burst if exposed to extreme heat or fire. Dust explosion hazard. May decompose under fire conditions emitting irritant and/or toxic
- **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, acrid fumes, toxic gases.

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. 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. Keep from freezing. Keep container tightly closed in a well-ventilated area.

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. Empty containers may contain hazardous residues. Ground equipment when transferring to prevent accumulation of static charge.

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 explosionproof equipment.

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

STABILITY AND REACTIVITY

(ANSI Section 10)

Under normal conditions: Stable see section 5 fire fighting measures

Materials to avoid: Oxidizers, reducing agents, halogens, peroxides, caustics. Nitrates.

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

flame, ignition sources.

Hazardous polymerization: Will not occur

TOXICOLOGICAL INFORMATION

(ANSI Section 11)

Supplemental health information: Contains a chemical that is toxic by ingestion. Contains a chemical that is toxic by inhalation. Contains a chemical that may be absorbed through skin. 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. Other effects of overexposure may include toxicity to liver, kidney, lungs, central nervous system, blood.

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. In 2-year feed studies of c.I. Pigment red 3, there was some evidence of carcinogenic activity in male rats (adrenal gland - benign pheochromocytomas) and female rats (hepatocellular adenomas). There was also some evidence of carcinogenic activity in male mice (adenomas of renal cortex and thyroid gland), but no evidence in female mice. The international agency for research on cancer (IARC) has classified carbon black as possibly carcinogenic to humans (group 2b) based on sufficient evidence in animals and inadequate evidence in humans. In a 2-year inhalation bioassay conducted by the national toxicology program (NTP), ethylene glycol butyl ether (egbe) caused an increased incidence of liver tumors in male mice and forestomach tumors in female mice exposed to 250 ppm, the highest concentration tested with mice. In rats, an increased incidence of tumors affecting the adrenal gland was seen in females exposed at 125 ppm only. This finding was not statistically significant. No increased incidence of any tumor type was seen in male rats exposed to the highest test concentration of 125ppm. The relevance of these findings to humans is unclear.

 $\textbf{Reproductive effects:} \ \ \text{No reproductive effects are anticipated}$

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. 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
4208-0100	devlex 4208qd interior/exterior waterborne gloss enamel white	10.15	209.71	60.95	none	212-453	310	paint ** protect from freezing **
4208-0110	devflex 4208 int/ext waterborne acrylic gloss enamel - white tint base	9.95	202.76	58.93	none	212-453	310	paint ** protect from freezing **
4208-0300	devflex 4208qd quick dry interior/exterior waterborne gloss enamel intermediate tb	9.04	216.78	62.38	none	212-453	310	paint ** protect from freezing **
4208-0400	devflex 4208qd quick dry interior/exterior waterborne gloss enamel deep tint base	8.80	215.35	61.93	none	212-453	310	paint ** protect from freezing **
4208-0500	devflex 4208qd quick dry interior/exterior waterborne gloss enamel accent tint base	8.50	195.57	60.11	none	212-453	310	paint ** protect from freezing **
4208-1000	devflex 4208qd interior/exterior waterborne gloss enamel white high hiding	10.24	199.05	58.04	none	212-453	310	paint ** protect from freezing **
4208-6650	devflex 4208qd interior/exterior waterborne gloss enamel medium green	8.78	236.08	64.55	none	212-453	310	paint
4208-9000	devflex 4208 int/ext waterborne acrylic gloss enamel safety red	8.71	138.33	57.44	none	212-453	310	paint
4208-9200	devflex 4208 int/ext waterborne acrylic gloss enamel safety orange	8.97	219.90	59.68	none	212-453	310	paint
4208-9400	devflex 4208 int/ext waterborne acrylic gloss enamel safety yellow	8.96	219.53	63.67	none	212-453	310	paint
4208-9800	devflex int/ext waterborne enamel - safety blue	8.84	228.77	61.53	none	212-453	310	paint ** protect from freezing **
4208-9990	devflex 4208qd interior/exterior waterborne gloss enamel black	8.50	203.96	60.52	none	212-453	*310	paint ** protect from freezing **

Ingredients

Product Codes with % by Weight (ANSI Section 2)

Chemical Name	Common Name	CAS. No.	4208-0100	4208-0110	4208-0300	4208-0400	4208-0500	4208-1000	4208-6650	4208-9000	4208-9200	4208-9400	4208-9800	4208-9990
ethanol, 2-butoxy-	2-butoxyethanol	111-76-2	1-5	1-5	1-5	1-5	5-10	1-5	1-5	1-5	1-5	1-5	5-10	1-5
ethanol, 2-(2-butyoxyethoxy)-	diethylene glycol monobutyl ether	112-34-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
carbon black	carbon black	1333-86-4												1-5
titanium oxide	titanium dioxide	13463-67-7	20-30	10-20	5-10	1-5		20-30	1-5		1-5	5-10	5-10	
copper, {29h, 31h-phthalocyaninato(2-)n29,n30,n31, n32}-,(sp-4-1)-	phthalocyanine blue pigment	147-14-8							1-5				1-5	
talc	talc	14807-96-6							.1-1.0			.1-1.0		
aluminum hydroxide	aluminum hydroxide	21645-51-2	1-5					1-5						
2-naphthalenol, 1-((4-methyl-2-nitrophenyl)azo)-	pigment red 3	2425-85-6								5-10				
2-propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene and 2-ethylhexyl 2-propenoate	styrene copolymer	25750-06-5	5-10	5-10	5-10	5-10	5-10	5-10	5-10	5-10	5-10	5-10	5-10	5-10
2-naphthalenol, 1-((2,4-dinitrophenyl)azo)-	dinitroaniline orange	3468-63-1									1-5			
c.i. pigment yellow 42	yellow iron oxide	51274-00-1							1-5			1-5		

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Ingredients (Continued)

Product Codes with % by Weight (ANSI Section 2)

Chemical Name	Common Name	CAS. No.	4208-0100	4208-0110	4208-0300	4208-0400	4208-0500	4208-1000	4208-6650	4208-9000	4208-9200	4208-9400	4208-9800	4208-9990
poly(oxy-1,2-ethanediyl), alpha-	alkylaryl polyether	60864-33-7			1-5	1-5	1-5		1-5		1-5	1-5		1-5
(phenylmethyl)- omega-((1,1,3,3-														
tetramethylbutyl)phenoxy)-														
butanamide, 2-((2-methoxy-4-	pigment yellow 74	6358-31-2							1-5		1-5	1-5		
nitrophenyl)azo) -n-(2-methoxyphenyl)-														
3-oxo-														
solvent naphtha (petroleum), medium	medium aliphatic solvent	64742-88-7	1-5	1-5	1-5	1-5	1-5	1-5	1-5		1-5	1-5	1-5	1-5
aliphatic	naphtha													
silica	amorphous silica	7631-86-9	1-5	1-5				1-5						
water	water	7732-18-5	30-40	30-40	40-50	40-50	40-50	30-40	40-50	40-50	40-50	40-50	40-50	40-50
oxirane, methyl-, polymer with oxirane	surfactant	9003-11-6	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
trade secret	trade secret	Sup. Conf.									1-5			
trade secret	trade secret	Sup. Conf.							.1-1.0					
styrene acrylic copolymer	styrene acrylic copolymer	Sup. Conf.	10-20	20-30	20-30	20-30	20-30	20-30	20-30	20-30	20-30	20-30	20-30	20-30

Chemical Hazard Data

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

		ACGIH-TLV					S.R.	S2	S3	СС								
Common Name	CAS. No.	8-Hour TWA	STEL	С	S	8-Hour TWA	STEL	С	S	Std.	32	33	CC	Н	M	N	I	0
2-butoxyethanol	111-76-2	20 ppm	not est.	not est.	not est.	50 ppm	not est.	not est.	у	not est.	n	У	n	У	n	n	n	n
diethylene glycol monobutyl ether	112-34-5	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	n	У	n	У	n	n	n	n
carbon black	1333-86-4	3.5 mg/m3	not est.	not est.	not est.	3.5 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n	n	У	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	n	n	n
phthalocyanine blue pigment	147-14-8	10 mg/m3	not est.	not est.	not est.	05 mg/m3	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
aluminum hydroxide	21645-51-2	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	n
pigment red 3	2425-85-6	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
dinitroaniline orange	3468-63-1	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
yellow iron oxide	51274-00-1	5 mg/m3	not est.	not est.	not est.	10 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
alkylaryl polyether	60864-33-7	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
pigment yellow 74	6358-31-2	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	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
amorphous silica	7631-86-9	10 mg/m3	not est.	not est.	not est.	6 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
surfactant	9003-11-6	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
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
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

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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