
MATERIAL SAFETY DATA SHEET

515X349 URETHANE COMPT IMPACT RESIST PRIMER
FM5713

Effective Date: 01/28/2000

SECTION I - MANUFACTURER AND PRODUCT INFORMATION

PRC-DeSoto International, Inc.
A PPG Industries Company
5430 San Fernando Road
P.O. Box 1800
Glendale, CA 91209

Information Phone: (818) 240-2060
Emergency Phone: (800) 228-5635
CHEMTREC: (800) 424-9300

Trade Name: 515X349 URETHANE COMPT IMPACT RESIST PRIMER
Base component

HMIS HAZARD RATING

Product Code: FM5713	HEALTH -	2
Form ID No: A09	FLAMMABILITY -	3
Product Class: Filled epoxy resin in solvents	REACTIVITY -	0
	PPE -	H
	None (0) --->Extreme (4)	

SECTION II - COMPOSITION

INGREDIENTS INFORMATION

CAS NUMBER	Wt %	CHEMICAL IDENTITY
014808-60-7	10 - 30	Crystalline Silica Quartz
037312-33-7	10 - 30	Epoxy Resin
000123-86-4	10 - 30	n-Butyl Acetate
000078-93-3	10 - 30	Methyl Ethyl Ketone
007789-06-2	10 - 30	Strontium Chromate
000108-94-1	1 - 10	Cyclohexanone
000071-36-3	< 5	n-Butyl Alcohol
001333-86-4	< 2	Carbon Black

EXPOSURE LIMITS

EXPOSURE LIMITS (ppm)

CAS NUMBER	ACGIH TLVs		OSHA PELs		
	TWA	STEL	TWA	STEL	
014808-60-7	0.1 mg/m3	N/E	0.1 mg/m3	N/E	S
037312-33-7	N/E	N/E	N/E	N/E	
000123-86-4	150	200	150	200	S
000078-93-3	200	300	200	300	S
007789-06-2	0.05 mg/m3	N/E	0.10 mg/m3	N/E	S
000108-94-1	25	N/E	25	N/E	S
000071-36-3	25	N/E	50	N/E	S
001333-86-4					

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3.5 mg/m3 N/E

3.5 mg/m3 N/E

S

Footnotes

- (S) Occupational Exposure Standard
- (R) Supplier's Recommended Limit

N/Av = Not Available

N/Ap = Not Applicable

N.E. = Not Established

NotknownXXX = CAS Number is not known.

SECTION III - HAZARDS IDENTIFICATION

Permissible Exposure Limits for Product:

Not established for product. See Section II.

ROUTE OF ENTRY AND EFFECTS OF OVEREXPOSURE

ROUTE OF ENTRY:

Inhalation and dermal.

INHALATION:

Vapor and mist will irritate nose, throat and respiratory tract.
High vapor concentration may cause dizziness, drowsiness and
fatigue.

EYE CONTACT:

Vapor, mist or liquid is severely irritating to eyes and cause
blurred vision, redness and tearing.

SKIN CONTACT:

Liquid can cause severe skin irritation with drying, defatting,
splitting and cracking on repeated contact.

INGESTION:

Liquid can cause irritation of gastro-intestinal tract followed by
nausea and vomiting, abdominal discomfort, and rapid pulse.

DELAYED EFFECTS:

Repeated overexposure may cause central nervous systems depression,
and kidney/liver damage.

Contains an ingredient listed as known or suspected carcinogen?

NTP: Yes

OSHA: No

IARC: Yes

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SECTION IV - FIRST AID MEASURES

INHALATION:

If inhaled, remove from area to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. If breathing is difficult, transport to medical facility and, if available, give supplemental oxygen.

EYE CONTACT:

For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention.

SKIN CONTACT:

For skin contact, wipe excess material with dry towel. Then wash exposed areas with plenty of water, and soap if available, for several minutes. Get medical attention if irritation occurs.

INGESTION:

If swallowed dilute by giving two(2) glasses of water to drink. Get immediate medical attention. Never give anything by mouth to an unconscious person.

GENERAL:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

SECTION V - FIRE AND EXPLOSION HAZARD IDENTIFICATION

FLASHPOINT: 31 F -56 C

Method: Setaflash

LEL (%): UNKNOWN

UEL (%): N/Av

FLAMMABILITY CLASSIFICATION:

Flammable

FIRE AND EXPLOSION HAZARDS:

Decomposition and combustion products may be hazardous. High temperatures may cause pressure build-up in closed containers. Vapors may accumulate in inadequately ventilated or confined areas. Vapors may form explosive mixture with air. Vapors are heavier than air and may travel long distances. Flashback or flame to the handling site may occur. Closed containers may explode when exposed to extreme heat.

EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical, foam.

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FIRE FIGHTING PROCEDURES:

Water spray may be ineffective. Cool fire exposed containers with water. Fog nozzles are preferable. Wear NIOSH/MSHA approved self-contained breathing apparatus and complete protective clothing to prevent contact with skin and eyes.

SECTION VI - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Remove all ignition sources. Wear an air-supplied respirator for an unventilated spill. Dike and cover spill with non-oxidizable absorbent. Scoop into containers. Sprinkle sodium thiosulfate on the residue and work in. Scoop into disposal container. Clean up with water. Wear appropriate personal protective equipment (See Section VIII).

SECTION VII - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep container tightly closed. Store in a dry location. Wear proper personal protective equipment (See Section VIII). Wash thoroughly after handling and before smoking or eating.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general mechanical ventilation.

RESPIRATORY PROTECTION:

When spraying or applying in any circumstances likely to produce airborne levels of solvent vapors in excess of the TLV, use an organic vapor cartridge or air-supplied respirator.

EYE PROTECTION:

Chemical goggles or full-face shield.

SKIN PROTECTION:

Solvent resistant gloves.

GENERAL:

Safety shower, eye wash station and washing facilities should be available. When using in circumstances where skin contact is

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likely, use complete protective garments.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green
Physical State:	Liquid
Low Boiling Point:	175 F 79.44 C
High Boiling Point:	312 F 155.54 C
Evaporation Rate:	Unknown
Vapor Density:	Heavier than air
% Volatiles by Volume:	61.3
Specific Gravity:	1.312
Liquid Density:	Heavier than water
Weight Per Gallon:	10.93
VOC (GR/L):	514
VOC (GR/L, Combined):	647

SECTION X - STABILITY AND REACTIVITY

STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATABILITY:

Strong oxidizing agents, acids, alkalies, and water.

CONDITIONS TO AVOID:

See incompatibilities above.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of carbon and nitrogen, chromium compounds.

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SECTION XI - TOXICOLOGICAL INFORMATION

ACUTE ORAL, DERMAL AND INHALATION EFFECTS (LD50 AND LC50):

CAS NUMBER	LD50	LC50
014808-60-7	5000 mg/kg,oral, rat	N/AV.
037312-33-7	N/AV.	N/AV.
000123-86-4	10770 mg/kg,oral, rat	2000 ppm, rat, 4hr.
000078-93-3	2740 mg/kg,oral, rat	11700 ppm, rat, 4hr.
007789-06-2	3118 mg/kg,oral, rat	N/AV.
000108-94-1	1340 mg/kg,oral, rat	2639 ppm, rat, 4hr.
000071-36-3	1500 mg/kg,oral, rat	8000 ppm, rat, 4hr.
001333-86-4	440 mg/kg,oral, rat	6750 mg/m3, rat, 4hr.

Carcinogenicity:

Carbon Black:

Based on an IARC conclusion that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black" and inadequate evidence of carcinogenicity in humans. IARC's overall evaluation is that "carbon black is possibly carcinogenic to humans" (Group 2B).

Carbon black has not been listed as a carcinogen by National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety & Health (NIOSH) criteria document on carbon black recommends that only carbon blacks with PAH levels greater than 0.1% be considered suspect carcinogens.

Chromium Compounds (Strontium Chromate):

NTP and IARC have determined that there is sufficient evidence for the carcinogenicity of hexavalent chromium compounds both in humans and experimental animals. Prolonged or repeated inhalation of chromate containing mist or fume may cause ulceration and perforation of nasal septum. Prolonged inhalation may cause liver damaged. Prolonged or repeated eye contact may cause conjunctivitis and skin contact, especially with broken skin, may cause "chrome sores".

Crystalline Silica (Quartz):

Crystalline silica dust in its neat form is on the IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans (Volume 42, 1987) concludes that there is sufficient evidence for

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the carcinogenicity of crystalline silica to experimental animals,
and there is limited evidence of the carcinogenicity of crystalline
silica to humans. IARC Class 2A.

NOTICE:

There are no data available on the product itself.

SECTION XII - ECOLOGICAL INFORMATION

NOTICE:

There are no data available on the product itself.

SECTION XIII - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

When disposing of this material, ensure that it is packaged,
stored, transported, and otherwise handled in accordance with
local, state, and federal regulations.

EPA WASTE NUMBERS:

D-001 (Ignitable)
D-007 (Chromium)
D-007 (Chromium)

SECTION XIV - TRANSPORT INFORMATION

DOT (Non-Bulk):

PROPER SHIPPING NAME:	Paint
HAZARD CLASS:	3
UN NUMBER:	UN 1263
PACKING GROUP:	II
LABEL:	Flammable liquid

SPECIAL NOTES:

None

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SECTION XV - REGULATORY INFORMATION

TSCA Section 8(b) - Inventory Status:

All ingredients in this product are listed in the TSCA Inventory or are exempt from listing.

CANADIAN EPA - DSL Inventory Status:

The DSL status of this product is unknown at this time.

SARA Title III Section 313 - Toxic Chemical List (TCL):

This product contains a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372). This information must be included in all MSDS's copied or distributed for this product.

000071-36-3	n-Butyl Alcohol
000078-93-3	Methyl Ethyl Ketone
007789-06-2	Strontium Chromate

SARA Title III Section 302 - CERCLA:

This product contains the following chemicals regulated under Section 302 as extremely hazardous substance(s) for emergency release notification (CERCLA List).

000071-36-3	n-Butyl Alcohol	5000
000078-93-3	Methyl Ethyl Ketone	5000
000108-94-1	Cyclohexanone	5000
000123-86-4	n-Butyl Acetate	5000
007789-06-2	Strontium Chromate	10

CALIFORNIA PROPOSITION 65 - Reportable ingredients:

Chemicals known by the state of CA to cause cancer:

This product contains the following chemical which is known to the state of California to cause cancer.

007789-06-2	Strontium Chromate
014808-60-7	Crystalline Silica Quartz

Chemicals known by the state of CA to cause reproductive toxicity:

This product does not contain any chemicals currently on the California list of known Reproductive Toxins.

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TSCA Section 12(b) - Export Notification:

This product contains following chemical that required annual or one time export notification per chemical and per country.

000123-86-4 n-Butyl Acetate

CLEAN AIR ACT - Hazardous Air Pollutants (CAA Section 112):

This product contains the following chemicals regulated under Section 112 for National Emission Standards of Hazardous Air Pollutants notification.

000078-93-3 Methyl Ethyl Ketone

001330-20-7 Xylene

007789-06-2 Strontium Chromate

Pennsylvania Right to Know - Reportable Ingredients:

The following is required composition information. Also, review Section II for additional information for other chemicals.

000071-36-3 n-Butyl Alcohol

000078-93-3 Methyl Ethyl Ketone

000108-94-1 Cyclohexanone

000123-86-4 n-Butyl Acetate

001333-86-4 Carbon Black

007789-06-2 Strontium Chromate

014808-60-7 Crystalline Silica Quartz

New Jersey Right to Know - Reportable Ingredients:

The following is required composition information. Also, review Section II for additional information for other chemicals.

000071-36-3 n-Butyl Alcohol

000078-93-3 Methyl Ethyl Ketone

000108-94-1 Cyclohexanone

000123-86-4 n-Butyl Acetate

001333-86-4 Carbon Black

007789-06-2 Strontium Chromate

014808-60-7 Crystalline Silica Quartz

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SECTION XVI - OTHER INFORMATION

Effective Date: 01/28/2000 Supersedes Date: 09/24/1996

Revision Number: 01

The information in this MSDS was obtained from sources which we believe to be reliable. However, since much of the information has been received from sources outside the company, it is provided without any warranty, expressed or implied, regarding its correctness, or suitability for specific situations. The conditions of handling, storage, use, and disposal of this product are beyond our control and may be beyond our knowledge. The user has the sole responsibility to determine the suitability of the material for any use, and the manner and conditions of use. Therefore, we cannot assume responsibility and expressly disclaim liability for loss, damage, injury, or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials.

End of Document

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910X533 Activator
FM8446

Effective Date: 02/24/2000

SECTION I - MANUFACTURER AND PRODUCT INFORMATION

PRC-DeSoto International, Inc.
A PPG Industries Company
5430 San Fernando Road
P.O. Box 1800
Glendale, CA 91209

Information Phone: (818) 240-2060
Emergency Phone: (800) 228-5635
CHEMTREC: (800) 424-9300

Trade Name: 910X533 Activator
Accelerator component
Product Code: FM8446
Form ID No: XXX
Product Class: Modified amines in solvents

HMIS HAZARD RATING
HEALTH - 2
FLAMMABILITY - 3
REACTIVITY - 0
PPE - J
None (0) --->Extreme (4)

SECTION II - COMPOSITION

INGREDIENTS INFORMATION

CAS NUMBER	Wt %	CHEMICAL IDENTITY
000071-23-8	30 - 60	1-Propanol
000108-88-3	30 - 60	Toluene
001760-24-3	< 5	N-Beta-(Aminoethyl)-Gamma- Aminopropyltrimethoxysil
000090-72-2	< 5	Tris-2,4,6-(Dimethylaminomethyl) Phenol

EXPOSURE LIMITS

EXPOSURE LIMITS (ppm)

CAS NUMBER	ACGIH TLVs		OSHA PELs		
	TWA	STEL	TWA	STEL	
000071-23-8	200	250	200	250	S
000108-88-3	50	N/E	100	N/E	S
001760-24-3	N/E	N/E	N/E	N/E	
000090-72-2	5	N/E	10	N/E	R

Footnotes

(S) Occupational Exposure Standard
(R) Supplier's Recommended Limit

N/Av = Not Available

N.E. = Not Established

N/Ap = Not Applicable

NotknownXXX = CAS Number is not known.

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Effective Date: 02/24/2000

SECTION III - HAZARDS IDENTIFICATION

Permissible Exposure Limits for Product:

Not established for product. See Section II.

ROUTE OF ENTRY AND EFFECTS OF OVEREXPOSURE

ROUTE OF ENTRY:

Inhalation and dermal.

INHALATION:

Vapor and mist will irritate nose, throat and respiratory tract.
High vapor concentration may cause dizziness, drowsiness and fatigue.

EYE CONTACT:

Vapor, mist or liquid is severely irritating to eyes and cause blurred vision, redness and tearing.

SKIN CONTACT:

Liquid can cause severe skin irritation with drying, defatting, splitting and cracking on repeated contact.

INGESTION:

Liquid can cause irritation of gastro-intestinal tract followed by nausea and vomiting, abdominal discomfort, and rapid pulse.

DELAYED EFFECTS:

Repeated overexposure may cause central nervous systems depression, and kidney/liver damage.

Contains an ingredient listed as known or suspected carcinogen?

NTP: No OSHA: No IARC: No

SECTION IV - FIRST AID MEASURES

INHALATION:

If inhaled, remove from area to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. If breathing is difficult, transport to medical facility and, if available, give supplemental oxygen.

EYE CONTACT:

For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention.

SKIN CONTACT:

For skin contact, wipe excess material with dry towel. Then wash

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exposed areas with plenty of water, and soap if available, for several minutes. Get medical attention if irritation occurs.

INGESTION:

If swallowed dilute by giving two(2) glasses of water to drink. Get immediate medical attention. Never give anything by mouth to an unconscious person.

GENERAL:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

SECTION V - FIRE AND EXPLOSION HAZARD IDENTIFICATION

FLASHPOINT: 45 F 7.22 C Method: Setaflash
Setaflash
LEL (%): UNKNOWN UEL (%): N/Av

FLAMMABILITY CLASSIFICATION:

Flammable

FIRE AND EXPLOSION HAZARDS:

Decomposition and combustion products may be hazardous. High temperatures may cause pressure build-up in closed containers. Vapors may accumulate in inadequately ventilated or confined areas. Vapors may form explosive mixture with air. Vapors are heavier than air and may travel long distances. Flashback or flame to the handling site may occur. Closed containers may explode when exposed to extreme heat.

EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical, foam.

FIRE FIGHTING PROCEDURES:

Water spray may be ineffective. Cool fire exposed containers with water. Fog nozzles are preferable. Wear NIOSH/MSHA approved self-contained breathing apparatus and complete protective clothing to prevent contact with skin and eyes.

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SECTION VI - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Remove all ignition sources. Wear an air-supplied respirator for an unventilated spill. Cover with absorbent. Scoop into containers using non-sparking tools. Clean up residue with a suitable cleaning solvent. Wear appropriate personal protective equipment (See Section VIII).

SECTION VII - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep container tightly closed. Store in a dry location. Wear proper personal protective equipment (See Section VIII). Wash thoroughly after handling and before smoking or eating.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general mechanical ventilation.

RESPIRATORY PROTECTION:

When spraying or applying in any circumstances likely to produce airborne levels of solvent vapors in excess of the TLV, use an organic vapor cartridge or air-supplied respirator.

EYE PROTECTION:

Chemical goggles or full-face shield.

SKIN PROTECTION:

Solvent resistant gloves.

GENERAL:

Safety shower, eye wash station and washing facilities should be available. When using in circumstances where skin contact is likely, use complete protective garments.

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SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear
Physical State: Liquid
Low Boiling Point: 206 F 96.66 C
High Boiling Point: 601 F 316.08 C
Evaporation Rate: Unknown
Vapor Density: Heavier than air
% Volatiles by Volume: 95.2
Specific Gravity: 0.84
Liquid Density: Lighter than water
Weight Per Gallon: 7
VOC (GR/L): N/Av
VOC (GR/L, Combined): N/Av

SECTION X - STABILITY AND REACTIVITY

STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITY:

None known.

CONDITIONS TO AVOID:

See incompatibilities above.

HAZARDOUS DECOMPOSITION PRODUCTS:

Products of combustion are hazardous including carbon monoxide,
carbon dioxide, and oxides of nitrogen.

SECTION XI - TOXICOLOGICAL INFORMATION

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ACUTE ORAL, DERMAL AND INHALATION EFFECTS (LD50 AND LC50):

CAS NUMBER	LD50	LC50
000071-23-8	1870 mg/kg, oral, rat	4000 ppm, rat, 4hr.
000108-88-3	2600 mg/kg, oral, rat	8800 ppm, rat, 4hr.
001760-24-3	7460 mg/kg, oral, rat	N/AV.
000090-72-2	1200 mg/kg, oral, rat	N/AV.

NOTICE:

There are no data available on the product itself.

SECTION XII - ECOLOGICAL INFORMATION

NOTICE:

There are no data available on the product itself.

SECTION XIII - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

When disposing of this material, ensure that it is packaged,
stored, transported, and otherwise handled in accordance with
local, state, and federal regulations.

EPA WASTE NUMBERS:

D-001 (Ignitable)

SECTION XIV - TRANSPORT INFORMATION

DOT (Non-Bulk):

PROPER SHIPPING NAME:	Paint
HAZARD CLASS:	3
UN NUMBER:	UN 1263
PACKING GROUP:	II
LABEL:	Flammable liquid

SPECIAL NOTES:

None

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SECTION XV - REGULATORY INFORMATION

TSCA Section 8(b) - Inventory Status:

All ingredients in this product are listed in the TSCA Inventory or are exempt from listing.

CANADIAN EPA - DSL Inventory Status:

The DSL status of this product is unknown at this time.

SARA Title III Section 313 - Toxic Chemical List (TCL):

This product contains a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372). This information must be included in all MSDS's copied or distributed for this product.

000108-88-3 Toluene

SARA Title III Section 302 - CERCLA:

This product contains the following chemicals regulated under Section 302 as extremely hazardous substance(s) for emergency release notification (CERCLA List).

000108-88-3 Toluene

1000

CALIFORNIA PROPOSITION 65 - Reportable ingredients:

Chemicals known by the state of CA to cause cancer:

This product does not contain any chemicals currently on the California list of known carcinogens.

Chemicals known by the state of CA to cause reproductive toxicity:

This product contains the following chemical which is known to the state of California to cause reproductive toxicity.

000108-88-3 Toluene

TSCA Section 12(b) - Export Notification:

This product does not contain any chemicals subject to Section 12(b) export notification.

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CLEAN AIR ACT - Hazardous Air Pollutants (CAA Section 112):

This product contains the following chemicals regulated under
Section 112 for National Emission Standards of Hazardous Air
Pollutants notification.

000067-56-1	Methyl Alcohol
000108-88-3	Toluene

Pennsylvania Right to Know - Reportable Ingredients:

The following is required composition information. Also, review
Section II for additional information for other chemicals.

000067-56-1	Methyl Alcohol
000071-23-8	1-Propanol
000108-88-3	Toluene

New Jersey Right to Know - Reportable Ingredients:

The following is required composition information. Also, review
Section II for additional information for other chemicals.

000071-23-8	1-Propanol
000108-88-3	Toluene

SECTION XVI - OTHER INFORMATION

Effective Date: 02/24/2000 Supersedes Date: 01/04/1995
Revision Number: 01

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believe to be reliable. However, since much of the information has
been received from sources outside the company, it is provided
without any warranty, expressed or implied, regarding its
correctness, or suitability for specific situations. The conditions
of handling, storage, use, and disposal of this product are beyond
our control and may be beyond our knowledge. The user has the sole
responsibility to determine the suitability of the material for any
use, and the manner and conditions of use. Therefore, we cannot
assume responsibility and expressly disclaim liability for loss,
damage, injury, or expense arising out of or in any way connected
with the handling, storage, use or disposal of the product. Effects
can be aggravated by other materials and/or this material may

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aggravate or add to the effects of other materials.

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