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MATERIAL SAFETY DATA SHEET

10P4-2; Cadmium Free FR Epoxy Primer

1. Identification of the Product and Company

Product Code & Product Name: **10P4-2; Cadmium Free FR Epoxy Primer**
 Manufacturer: Akzo Nobel Aerospace Coatings
 East Water Street
 Waukegan, IL 60085 US
 Tel: 847 623 4200 Fax: 847 625 3200
 Emergency: Emergency telephone (US) CHEMTREC - 800 424 9300
 Emergency telephone (Outside US) CHEMTREC - 703 527 3887
 NOTE: CHEMTREC numbers to be used only in the event of emergencies involving a spill, leak, fire, exposure or accident involving chemicals.
 Product Use: Coating Revision Date: 03/21/2005

2. Composition / Information on Ingredients

Chemical Name	CAS Number	WT %	ACGIH TLV TWA	ACGIH TLV STEL	OSHA PEL C	OSHA PEL TWA
METHYL ETHYL KETONE	78-93-3	10-30	200 ppm	300 ppm	N.D.	200 ppm
STRONTIUM CHROMATE	7789-06-2	7-13	0.005 mg/m ³	N.D.	N.D.	0.1 mg/m ³
			Cr			CrO ₃
XYLENE	1330-20-7	7-13	100 ppm	150 ppm	N.D.	100 ppm
METHYL ISOBUTYL KETONE	108-10-1	5-10	50 ppm	75 ppm	N.D.	100 ppm
TALC	14807-96-6	5-10	2 mg/m ³	N.D.	N.D.	N.D.
TITANIUM DIOXIDE	13463-67-7	3-7	10 mg/m ³	N.D.	N.D.	15 mg/m ³
			dust			dust
CYCLOHEXANONE	108-94-1	1-5	25 ppm	N.D.	N.D.	50 ppm
ETHYLBENZENE	100-41-4	1-5	100 ppm	125 ppm	N.D.	100 ppm
SYNTHETIC AMORPHOUS SILICA, PRECIPITATED	112926-00-8	1-5	10 mg/m ³	N.D.	N.D.	N.D.
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	0.5-1.5	0.1 mg/m ³	N.D.	N.D.	N.D.

Note

Talc is a naturally occurring mineral which may contain minor amounts of Quartz CAS# 14808-60-7.

3. Hazards Identification

*** Emergency Overview *** — blue-green liquid with ketone odor ——— Class IB - Flammable Liquid ———

Potential Health Effects - Eye: Severe irritation with redness, pain, tearing and the possibility of significant injury after direct splash to eye.

Potential Health Effects - Skin: Moderately irritating with possible redness and discomfort. Prolonged contact may cause burns with redness and pain. May cause dry skin by dissolving skin oils. Contains a component which can be absorbed through the skin in harmful amounts.

Potential Health Effects - Inhalation: Moderately irritating to nose, throat or breathing passages. May cause unconsciousness by depressing the central nervous system after prolonged exposure to high concentrations. May increase risk for sudden death from irregular heart rhythms caused by stressful conditions that increase the levels of adrenalin in the blood.

Potential Health Effects - Ingestion: Moderately irritating to the mouth, stomach, and digestive system. No ingestion exposure expected with normal occupational use.

Potential Health Effects - Chronic Hazards: Chronic exposure can cause redness and irritation of the membrane that covers the eyeball and the inside of the eyelids (conjunctivitis). Frequent or prolonged skin contact may cause irritation or a rash (dermatitis). May cause dry nose and throat, an abnormal sensation of prickling or tingling of the skin, tremors, apprehension, impaired memory, weakness, nervous irritation, dizziness, nausea, loss of appetite, headache, increase liver size and damage to liver, abnormal increase in the number of bone marrow cells, low red blood cell count, and damage to the kidney. May cause damage to hearing or increase sensitivity to noise. Chronic alcohol use can increase the potential for toxicity from the repeated exposure to the aromatic hydrocarbon in this product. Tolerance may develop from repeated exposure during the workweek to the solvents in this product. Tolerance may be lost after weekends or other periods of absence from the workplace. Chronic ingestion exposure would be unlikely due to the method of use or physical properties of this product.

The components listed in Section 2 may affect the following target organs: Blood, Central Nervous System, Cardiovascular System, Eyes, Gastrointestinal Tract, Kidneys, Liver, Respiratory System, Skin.

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Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

4. First Aid Measures

First Aid - Eye Contact: If this product contacts the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention.

First Aid - Skin Contact: If this product contacts the skin, promptly wash the contaminated skin with soap & water. If this product penetrates the clothing, promptly remove the clothing and wash the skin with soap & water. If irritation persists after washing, get medical attention. Launder clothing before reuse.

First Aid - Inhalation: If a person breathes large amounts of this product, move the exposed person to fresh air at once. If breathing is difficult, get medical attention.

First Aid - Ingestion: If this product has been swallowed, get medical attention immediately.

5. Fire-Fighting Measures

Flash Point (F): 23

LOWER EXPLOSIVE LIMIT: 0.9
UPPER EXPLOSIVE LIMIT: 11.5

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam

Unusual Fire And Explosion Hazards: Flammable Liquid. Vapors are heavier than air and may travel to a source of ignition and flash back.

Special Fire Fighting Procedures: Firefighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus.

6. Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Eliminate all ignition sources. Stop or control the spill, if this can be done without undue risk. Do not allow material to enter sewers or ground. Isolate discharged material for proper disposal. Wear appropriate personal protective equipment.

7. Handling and Storage

Handling: Grounding or bonding of containers is recommended before material transfer. Activities such as sanding, burning off etc. of paint films may generate dust and/or fumes hazardous to the skin and lungs. Work in well ventilated areas. Use local exhaust ventilation and personal skin and respiratory protective equipment as appropriate.

Storage: Store inside between 40F-100F. Storage areas should be dry and well-ventilated.

8. Exposure Controls / Personal Protection

Engineering Controls: No Information.

Respiratory Protection: Appropriate respirators must be used, and a program that follows 29 CFR 1910.134 or other applicable regulatory requirements must be followed, when workplace hazards warrant the use of a respirator. NIOSH-approved or other appropriate respirators must be used when respiratory protection is necessary.

Eye Protection: Wear appropriate goggles, face shields or other PPE, which will be effective under the circumstances if the possibility of contact exists. A program meeting 29 CFR 1910.133 or other applicable regulatory requirements must be followed when PPE is necessary.

Other Protective Equipment: Use impermeable gloves and protective clothing as necessary to prevent skin contact.

Hygienic Practices: Do not eat, drink, chew tobacco or gum, or apply cosmetics while working with this product. Wash hands before performing any of these activities.

9. Physical and Chemical Properties

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Theoretical Values

Boiling Range (F):	175 - 338	VOC (g/l)(less water & exempt):	507
Freeze Point (F):	N.D.	VOC (lb/gal)(less water & exempt):	4.2
Specific Gravity:	1.3	% Solids By Weight:	60
Appearance:	blue-green	% Solids By Volume:	39
Physical State:	liquid	Density (lb/gal):	10.6
Odor:	ketone	Flashpoint (F):	23

10. Stability and Reactivity

Conditions To Avoid: Avoid contact with heat, open flame, sparks, or ignition sources.

Hazardous Polymerization: Will not occur.

Stability: Stable.

11. Toxicological Information

Chemical Name	LD50	LC50	IARC	NTP	OSHA
METHYL ETHYL KETONE	Oral Rat: 2.9 g/kg	Inhalation Rat: 23500 mg/m3/8H			
STRONTIUM CHROMATE	Oral Rat: 3118 mg/kg	N.D.		Known	Select Carcinogen
XVI FNF	Oral Rat: 4300 mg/kg	Inhalation Rat: 5000 ppm/4H;			
METHYL ISOBUTYL KETONE	Oral Rat: 2080 mg/kg	Inhalation Mouse: 23300 mg/m3			
TALC	N.D.	N.D.			
TITANIUM DIOXIDE	N.D.	N.D.			
CYCLOHEXANONE	Oral Rat: 1620 uL/kg	Inhalation Rat: 8000 ppm/4H			
ETHYLBENZENE	Oral Rat: 3500 mg/kg	N.D.	Group 2B		
SYNTHETIC AMORPHOUS SILICA, PRECIPITATED	Oral Rat: >10000 mg/kg	N.D.			
CRYSTALLINE SILICA (QUARTZ)	N.D.	N.D.	Group 1	Anticipated	Carc

12. Ecological Information

Akzo Nobel has not conducted specific studies on the eco toxicity or environmental fate of this product. Commonly available data on certain ingredients indicate that acute or chronic effects could result from uncontrolled releases to soil, ground water, storm waters, or air. Appropriate measures should be taken to prevent uncontrolled releases. Prompt containment and clean up should be performed if releases do occur.

13. Disposal Considerations

Legal disposition of waste is the responsibility of the owner/generator of the waste. Applicable federal, state, and/or local regulations must be followed during treatment, storage, or disposal of waste containing this product. Do not dispose of in an uncontrolled manner.

14. Transport Information

DOT Proper Shipping Name:	Paint	IATA Proper Shipping Name:	Paint	IMO Proper Shipping Name:	Paint
DOT Hazard Class:	3	IATA Hazard Class:	3	IMC Hazard Class:	3
DOT UN Number:	UN1263	IATA UN Number:	UN1263	IMC UN Number:	UN1263
DOT Packing Group:	II	IATA Packing Group:	II	IMC Packing Group:	II
Label Codes:	3	IATA Hazard Subclass:	N/A	IMO Subsidiary Risk:	N/A
Resp. Guide Page:	120			Marine Pollutant:	No

Chemical Name
METHYL ETHYL KETONE
STRONTIUM CHROMATE

CAS Number
78-93-3
7789-06-2

RQ (lbs)
5000
10

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XYLENE	1330-20-7	100
METHYL ISOBUTYL KETONE	108-10-1	5000
CYCLOHEXANONE	108-94-1	5000
ETHYLBENZENE	100-41-4	1000

15. Regulatory Information

U.S. FEDERAL REGULATIONS: As follows -

CERCLA - SARA Hazard Category: This product is considered, under applicable definitions, to meet the following categories: IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and 40 CFR 372:

Chemical Name	313 Category	CAS Number	WT %
METHYL ETHYL KETONE		78-93-3	17.8
STRONTIUM CHROMATE	Chromium Compounds	7789-06-2	9.5
XYLENE		1330-20-7	9.2
METHYL ISOBUTYL KETONE		108-10-1	7.2
ETHYLBENZENE		100-41-4	2.3

Clean Air Act: This product contains the following chemical substances listed as Hazardous Air Pollutants (HAPs) under the Clean Air Act of 1990:

Chemical Name	HAP Category	CAS Number	WT %
METHYL ETHYL KETONE		78-93-3	17.8
STRONTIUM CHROMATE	Chromium Compounds	7789-06-2	9.5
XYLENE		1330-20-7	9.2
METHYL ISOBUTYL KETONE		108-10-1	7.2
ETHYLBENZENE		100-41-4	2.3

Toxic Substances Control Act: All the components of this product comply with applicable requirements of the US EPA TSCA inventory. Contains (a) chemical(s) subject to the reporting requirements of TSCA 12b if exported from the US.

U.S. STATE REGULATIONS: As follows -

California Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

INTERNATIONAL REGULATIONS: As follows -

Canadian WHMIS Class: B2, D2

European EINECS - All the components of this product are listed or are exempt from listing.

Australian AICS - The status of one or more components of this product is not known.

16. Other Information

National Paint & Coatings Association (NPCA) Hazardous Material Identification System (HMIS):

Health: 3 Flammability: 3 Reactivity: 1 Personal Protection: See Section 8

Legend: N.A. - Not Applicable, N.D. - Not Determined

This MSDS relates only to the specific material identified in Section 2. In compiling this MSDS, Akzo Nobel has relied in good faith on information provided to Akzo Nobel by suppliers of the components of this material, and, in some cases, provided by independent data resources. Akzo Nobel has not independently verified such information, and, in addition, users should be aware that all materials may present unknown hazards. Use of this material in combination with other materials and/or in specific processes may render information set forth in the MSDS inaccurate or otherwise invalid. NO WARRANTY, EXPRESS OR IMPLIED, IS MADE REGARDING THE INFORMATION FURNISHED ON THIS MSDS.

Revision Date: 03/21/2005

NPCA Label Statements

DANGER! Flammable liquid and vapor. Causes skin burns. May be harmful if absorbed through the skin. Vapor harmful. Harmful if inhaled. Harmful if

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swallowed.

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. Causes eye irritation. Causes nose and throat irritation. Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. Overexposure may cause lung and kidney damage. Cancer hazard. Contains ingredients which can cause cancer. (Risk of cancer depends on duration and level of exposure.)

First Aid: In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention immediately; for skin, wash thoroughly with soap and water. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately. If swallowed, do not induce vomiting. Get medical attention immediately.

Vapors may cause flash fire. Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves & ovens, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Use only with adequate ventilation. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Close container after each use. Do not get in eyes, on skin or clothing. Do not breathe vapors. Wash thoroughly after handling. FOR INDUSTRIAL USE ONLY.

If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.