



MATERIAL SAFETY DATA SHEET

Advanced Coatings

4222T36231; Flat Gray 595B-36231 #716382

P7250
Bldg. 2
Paint Telop
AKZO NOBEL

1. Identification of the Product and Company

Product Code & Product Name: **4222T36231; Flat Gray 595B-36231 #716382**

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: 01/30/2007

2. Composition / Information on Ingredients

Chemical Name	CAS Number	WT %	ACGIH TLV TWA	ACGIH TLV STEL	OSHA PEL C	OSHA PEL TWA
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	30-60	0.025 mg/m3	N.D.	N.D.	N.D.
EPOXY RESIN	25085-99-8	10-30	N.D.	N.D.	N.D.	N.D.
TITANIUM DIOXIDE	13463-67-7	10-30	10 mg/m3 dust	N.D.	N.D.	N.D.
CRYSTALLINE SILICA (CRISTOBALITE)	14464-46-1	3-7	0.05 mg/m3	N.D.	N.D.	N.D.
METHYL ISOBUTYL KETONE	108-10-1	3-7	50 ppm	75 ppm	N.D.	100 ppm
METHYL ETHYL KETONE	78-93-3	3-7	200 ppm	300 ppm	N.D.	200 ppm
METHYL AMYL KETONE	110-43-0	1-5	50 ppm	N.D.	N.D.	100 ppm
SOLVENT NAPHTHA, PETROLEUM, LIGHT AROMATIC	64742-95-6	1-5	N.D.	N.D.	N.D.	N.D.
1-METHOXY-2-PROPANOL	107-98-2	1-5	100 ppm	150 ppm	N.D.	N.D.
PSEUDOCUMENE	95-63-6	0.5-1.5	N.D.	N.D.	N.D.	N.D.
ETHYLBENZENE	100-41-4	0.1-1.0	100 ppm	125 ppm	N.D.	100 ppm

3. Hazards Identification

*** Emergency Overview *** ----- opaque liquid with solvent odor ----- Class IB - Flammable Liquid -----

Potential Health Effects - Eye: Moderate irritation with redness and minor discomfort after direct splash to eye.

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

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.

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: Eye effects from chronic exposure are unknown. Frequent or prolonged skin contact may cause irritation or a rash (dermatitis). Chronic exposure over years may cause nervousness, anxiety and asthmatic bronchitis with coughing and wheezing. Chronic exposure may cause problems of the liver and bile duct system. Chronic inhalation may lower the count of certain types of blood cells. 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. Eyes. Kidneys. Liver. Lungs. Peripheral Nervous System. Respiratory System. Skin.

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): 25

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. Sanding dust may contain levels of unreacted materials which may cause irritation and sensitization; these are highest in the first 24/48 hours after application. 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: It is recommended that work be done in an adequately ventilated area (i.e., ventilation sufficient to maintain concentrations below one half of the PEL and other relevant standards). Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.

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

Theoretical Values

Boiling Range (F):

175 - 365

VOC (g/l)(less water & exempt):

301

Freeze Point (F):	N.D.	VOC (lb/gal)(less water & exempt):	2.5
Specific Gravity:	1.6	% Solids By Weight:	81
Appearance:	opaque	% Solids By Volume:	64
Physical State:	liquid	Density (lb/gal):	13.3
Odor:	solvent	Flashpoint (F):	25

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
CRYSTALLINE SILICA (QUARTZ)	N.D.	N.D.	Group 1	Anticipated Carc	
EPOXY RESIN	N.D.	N.D.			
TITANIUM DIOXIDE	Oral rat >10,000 mg/kg	N.D.			
CRYSTALLINE SILICA (CRISTOBALITE)	N.D.	N.D.	Group 1	Anticipated Carc	
METHYL ISOBUTYL KETONE	Oral Rat: 2080 mg/kg	Inhalation Mouse: 23300 mg/m3			
METHYL ETHYL KETONE	Oral Rat: 2.9 g/kg	Inhalation Rat: 23500 mg/m3/8H			
METHYL AMYL KETONE	Oral Rat: 1600 mg/kg	N.D.			
SOLVENT NAPHTHA, PETROLEUM, LIGHT AROMATIC	N.D.	N.D.			
1-METHOXY-2-PROPANOL	Oral Mouse: 11700 mg/kg	Inhalation Rat: 10000 ppm/5H			
PSEUDOCUMENE	Oral Rat: 5 gm/kg	Inhalation Rat : 18 gm/m3/4H			
ETHYLBENZENE	Oral Rat: 3500 mg/kg	N.D.	Group 2B		

IARC has issued a notice that they will publish a monograph that lists titanium dioxide (TiO2) as possibly carcinogenic to humans (Group 2B) by inhalation (based solely on animal data). Human epidemiology studies do not suggest an increased risk of cancer in humans for occupational exposure to titanium dioxide. According to the IARC summary on titanium dioxide, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

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 wastes 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	IMO Hazard Class:	3
DOT UN Number:	UN1263	IATA UN Number:	UN1263	IMO UN Number:	UN1263
DOT Packing Group:	II	IATA Packing Group:	II	IMO Packing Group:	II
Label Codes:	3	IATA Hazard Subclass:	N/A	IMO Subsidiary Risk:	N/A
Resp. Guide Page:	128			Marine Pollutant:	No

Chemical Name	CAS Number	RQ (lbs)
METHYL ISOBUTYL KETONE	108-10-1	5000

METHYL ETHYL KETONE
ETHYLBENZENE

78-93-3
100-41-4

5000
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 ISOBUTYL KETONE		108-10-1	4.8
PSEUDOCUMENE		95-63-6	0.8
ETHYLBENZENE		100-41-4	0.2

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 ISOBUTYL KETONE		108-10-1	4.8
ETHYLBENZENE		100-41-4	0.2

Toxic Substances Control Act: All the components of this product comply with applicable requirements of the US EPA TSCA inventory. Does not contain chemicals known to be subject to TSCA 12b.

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.

Korean Inventory - All the components of this product are listed or are exempt from listing.

Austalian 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: 2 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: 01/30/2007

NPCA Label Statements

DANGER! Flammable liquid and vapor. Vapor harmful. Harmful if inhaled. Harmful if 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 skin 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