



# MATERIAL SAFETY DATA SHEET



J3006; Curing Solution

## 1. Identification of the Product and Company

**Product Code & Product Name:** J3006; Curing Solution

**Company:** Akzo Nobel - Awlgrip North America  
2270 Morris Avenue  
Union, NJ 07083  
Tel. 888 355 3090; Fax 908 686 1752  
Health & Safety Information 847 623 4200

**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

## 2. Composition / Information on Ingredients

Chemical Name	CAS Number	WT %	ACGIH TLV TWA	ACGIH TLV STEL	OSHA PEL C	OSHA PEL TWA
HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER	28182-81-2	60-100	N.D.	N.D.	N.D.	N.D.
ETHYL 3-ETHOXYPROPIONATE	763-69-9	10-30	N.D.	N.D.	N.D.	N.D.
HEXAMETHYLENE DIISOCYANATE	822-06-0	0.1-1.0	0.005 ppm	N.D.	N.D.	N.D.

## 3. Hazards Identification

\*\*\* Emergency Overview \*\*\* ----- clear liquid with solvent odor ----- Class II - Combustible Liquid -----

**Potential Health Effects - Eye:** Mild irritation with redness and minor discomfort after direct splash to the eye. Overexposure to isocyanate products can cause eye irritation.

**Potential Health Effects - Skin:** Mildly irritating to the skin. Overexposure to isocyanate products can cause skin irritation. It can also lead to skin sensitization. The reaction may include rash, itching, hives and swelling of the arms and legs.

**Potential Health Effects - Inhalation:** Overexposure to isocyanate products can cause nose, throat, and lung irritation. It can also lead to lung sensitization. Symptoms may include coughing, wheezing, tightness in the chest and shortness of breath. Sensitization may develop as a result of a large single overexposure or from repeated overexposure at lower levels. Respiratory (lung) sensitization can result in strong asthmatic response to future airborne exposures, even at levels well below the TLV.

**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. Skin effects from chronic exposure are unknown. Inhalation effects from chronic exposure are unknown. 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: Eyes. 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):** 136

**LOWER EXPLOSIVE LIMIT:** 1.0

**UPPER EXPLOSIVE LIMIT:** N.D.

**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:** 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*

<b>Boiling Range (F):</b>	291 - 329	<b>VOC (g/l)(less water &amp; exempt):</b>	146
<b>Freeze Point (F):</b>	N.D.	<b>VOC (lb/gal)(less water &amp; exempt):</b>	1.2
<b>Specific Gravity:</b>	1.1	<b>% Solids By Weight:</b>	87
<b>Appearance:</b>	clear	<b>% Solids By Volume:</b>	85
<b>Physical State:</b>	liquid	<b>Density (lb/gal):</b>	9.5
<b>Odor:</b>	solvent		

## 10. Stability and Reactivity

**Conditions To Avoid:** Avoid contact with heat, open flame, sparks, or ignition sources. If moisture enters the container, carbon dioxide gas may form and cause the container lid to bulge or pop off.

**Hazardous Polymerization:** May occur.

**Stability:** Stable.

## 11. Toxicological Information

Chemical Name	LD50	LC50	IARC	NTP	OSHA
HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER N.D.		Inhalation Rat: 18500 mg/m3/1H			
ETHYL 3-ETHOXYPROPIONATE	Oral Rat: 5 gm/kg	N.D.			
HEXAMETHYLENE DIISOCYANATE	Oral Rat: 710 mg/kg	Inhalation Rat: 310-350 mg/m3/1-4H			

## 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 Related Material	IATA Proper Shipping Name:	Paint Related Material	IMO Proper Shipping Name:	Paint Related Material
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:	III	IATA Packing Group:	III	IMO Packing Group:	III
Resp. Guide Page:	128	IATA Hazard Subclass:	N/A	Marine Pollutant:	No

Chemical Name	CAS Number	RQ (lbs)
HEXAMETHYLENE DIISOCYANATE	822-06-0	100

## 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, REACTIVE 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 %
HEXAMETHYLENE DIISOCYANATE	Diisocyanates	822-06-0	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 %
HEXAMETHYLENE DIISOCYANATE		822-06-0	0.2

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 a chemical known to the State of California to cause cancer.

### INTERNATIONAL REGULATIONS: As follows -

Canadian WHMIS Class: B3, D2

Canadian DSL - All the components of this product are listed or are exempt from listing.

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: 3

Flammability: 2

Reactivity: 2

Personal Protection: See Section 8

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

### FOR PROFESSIONAL USE ONLY

**IMPORTANT NOTE** The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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