



## MATERIAL SAFETY DATA SHEET

**Section 1****Product Identification****Product Name:** 80300**Date Prepared:** 1/11/2006**Part Number:** 80300**Formula:****Manufacturer / Supplier:**

Tech line Coatings, Inc  
 26844 ADAMS AVE.  
 MURRIETA, CA 92562  
 USA  
 Phone 972-775-6130  
 Fax 951-461-9658  
 www.techlinecoatings.com

**Chemical Family:****Emergency Phone:**

Chemtrec  
 1-800-424-9300  
 1-703-527-3887

**Section 2****Composition / Data On Components**

Component	CAS#	% of Weight	OSHA PEL	ACGIH TLV	Sara 313
Polyamide-imide polymer	Trade Secret	<30	Not Established	Not Established	
Triethylamine	12-44-8	<3	25PPM	1PPM	N/A
4,4'-methylenedianiline	101-77-9	<.1	.01PPM	.1PPM	Yes
SILOXANES & SILICONES, DIMETHYL-POLYMERS W/ PHENYL SILSESQUIOXANES	73138-88-2	<10	Not Established	Not Established	
XYLENE	1330-20-7	>10	100 PPM	100 PPM	YES
BENZENE	71-43-2	<11 PPB	5 PPM	1 PPM	Yes
TOLUENE	108-88-3	<1	150 PPM	100 PPM	Yes
1-Methyl-2-pyrrolidone (N-methylpyrrolidone)	872-50-4	<50	Not Established	Not Established	Yes

Ingredients not precisely identified are proprietary or non-hazardous

**Section 3****Hazards Identification****Appearance and Odor:**

**Emergency Overview:** Danger! Contains MDA, which may cause cancer. Liver toxin. May be absorbed through the skin. Causes eye irritation.

**Hazard Description:** Flammable. Hidden text

Vapors are heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Hidden text

Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Smoking should not be permitted when working with this material

Toxic to aquatic organisms.

Vapors may cause drowsiness and dizziness. Hidden text

Irritating to skin. Hidden text

Harmful: may cause lung damage if swallowed.

**Section 4****First Aid Measures****After EYE Contact:**

Immediately flush with plenty of water for at least 15 minutes. If redness, itching or a burning sensation develops, have eyes examined and treated by medical personnel

**After SKIN Contact:** Wash material off the skin with plenty of soap and water. If redness, itching or a burning sensation develops, seek medical attention. For thermal burns, cool quickly with water and get medical attention. Do not peel off solidified material.

Remove contaminated clothing without delay. Do not reuse clothing without laundering.

**After INHALATION:**

Remove victim to fresh air. If cough or other respiratory symptoms develop, consult medical personnel. Administer oxygen if there is difficulty in breathing. Obtain medical attention immediately if necessary.

**After SWALLOWING:**

Give one or two glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person)

**Section 5**

**Fire Fighting Measures**

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**Flash Point:** 79°F  
**Method:**

**Flammable Limits LEL-:**  
N/A

**Flammable Limits UEL-:**  
N/A

**Stability:** See Section 10  
Stable under normal conditions

**Extinguishing Media:**

Water, fog, foam, carbon dioxide, dry chemical, halogenated agents

**Special Fire Fighting Procedures:**

Self-contained breathing apparatus with full face piece and protective clothing

**Unusual Fire And Explosion Hazards:**

Keep away from ignition sources.

**Section 6**

**Accidental Release Measures**

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**Steps to be taken in case material is released or spilled:**

- Remove sources of ignition.
- Warn other workers of spill.
- Wear protective equipment
  - NIOSH Approved Respirator
  - Gloves
  - Safety Glasses
- Do not allow material to be released into the environment without proper governmental permits

**Measures for cleaning / collecting:** Wear skin, respiratory and eye protection during clean-up. Sweep up and recover or mix material with moist absorbent and shovel into waste container

**Additional Information:**

- See Section 7 for safe handling information.
- See Section 8 for PPE information
- See Section 13 for disposal information

**Section 7**

**Handling and Storage**

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**Handling:** Wear skin, respiratory and eye protection. Avoid prolonged or repeated contact with skin.

**Storage:** Do not allow material to freeze. Keep containers tightly sealed. Do not store with acids. Avoid exposure to moisture; this product is hygroscopic.

**Section 8**

**Exposure Controls and Personal Protection**

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**Engineering Controls:** Exhaust ventilation. Showers, Eyewash stations

**Respiratory Protection:** Use NIOSH approved respirator if TWA/TLV limits are exceeded

**Protective Gloves:** Impervious gloves.

**Eye Protection:** Safety glasses with side shields

**Other Protective Equipment:** Impervious apron.

**Ventilation:** Local Exhaust: Use To Maintain Below TWA Limits

**Mechanical:** Use Non-Sparking Equipment

**Work / Hygienic Practices:** wash thoroughly after handling product and before eating, drinking or smoking

**Section 9**

**Physical And Chemical Properties**

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**Appearance and Odor:** Black Liquid with Solvent Odor

**Boiling Point:** Not Established

**Vapor Density (Air = 1):** Not Established

**Vapor Pressure:** Not Established

**Melting Point:** Not Established

**Solubility in Water:** Miscible

**Reactivity in Water:** None

**VOC's:** Not Established

**SECTION 10**

## STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions
<b>Incompatibility (Materials to Avoid):</b>	Avoid heat, sparks, open flames and other ignition sources. Prevent vapor accumulation. Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Carbon Dioxide/Carbon Monoxide
<b>Hazardous Polymerization:</b>	Will not occur

## Section 11

### Toxicological Information

**No toxicity information is available on this specific preparation; this product has components that are considered to have the following toxicological hazards:**

- Inhalation** Hidden text : DO NOT DELAY.  
**Inhalation** : Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
- Hidden text  
**Skin Contact** Hidden text **Skin Contact** : Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.
- Hidden text  
**Eye Contact** Hidden text **Eye Contact** : Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.
- Hidden text  
**Ingestion** Hidden text **Ingestion** : If swallowed, do not induce vomiting; transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
- Hidden text  
**Advice to Physician** Hidden text **Advice to physicians** : Potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal.  
Potential for cardiac sensitisation, particularly in abuse situations. Hypoxia or negative inotropes may enhance these effects. Consider oxygen therapy.

### Other Toxicity Data:

This product contains N-methylpyrrolidone (NMP)

### Toxicology Test Data:

Rat/ Oral LD50 - 4990 MG/KG - Moderately Toxic  
Mouse, Oral LD50 - 5270 MG/KG - Slightly Toxic  
Rat, Inhalation Safety Screen, 8 hr - SLIGHTLY IRRITATING  
No deaths after 8 hour exposure  
Rat, 4 hr Inhalation LC50 - > 5.1 MG/L - Moderately Toxic  
Rabbit, Primary Skin Irritation - MARKEDLY IRRITATING  
TOX TEST RATING NOT FOUND  
Rabbit, Eye Irritation - MARKEDLY IRRITATING  
TOX TEST RATING NOT FOUND  
Rat, 28-day oral study - 257 - 2056 MG/KG - Testicular effects in highest dose group  
Rat, 28-Day Feeding Study - NOAEL: 429 MG/KG/DAY - Decreased body weights at high doses  
Mouse, 28 day dietary study - NOAEL: 820 MG/KG/DAY - Target organ: kidney  
Rat, 90 day feeding & neurotoxicity study @ 169 - 1344 MG/KG/DAY - NOAEL: Low Dose  
Mouse, 3-month oral toxicity, dietary - @ 277 - 1931 MG/KG/DAY - NOAEL: Low Dose  
Rat, 90 day Inhalation with Recovery - 0, 0.5, 1, 3 MG/L - Testicular effects in highest dose group  
Ames Salmonella Assay with or without S9 - NEGATIVE - No increase in mutation frequency  
Mouse Lymphoma Assay with or without S-9 - NEGATIVE - No increase in mutation frequency  
Mouse Micronucleus Test: Bone Marrow NEGATIVE - No clastogenic effects reported  
Rat, oral 2 year oncogenicity study @ 66.4 - 939 MG/KG/DAY - Not carcinogenic in rats  
Rat, Inhalation Oncogenicity Study - @ 0.04 & 0.4 MG/L - No evidence of carcinogenicity  
Rat, Oral 2-Gen Reproduction Study - NOAEL: 160 MG/KG/DAY - Reduced fertility & pup survival @ 500  
Rat, Oral Developmental Toxicity Study - @ 332 & 997 MG/KG/DAY - Embryotoxic and teratogenic at high dose  
Mouse, Oral Developmental Toxicity Study - @ 263 & 1055 MG/KG/DAY - Embryotoxic and teratogenic at high dose  
Rat dermal teratology range finding test - NOEL: 500 MG/KG/DAY - Maternal toxicity and embryoletality  
Rat, Dermal Developmental Toxicity Study - NOEL: 237 MG/KG/DAY - Maternal toxicity and embryoletality  
Rat, Inhalation Developmental Toxicity - @ 0.1 & 0.36 MG/L - No maternal or developmental toxicity  
Rat, Inhalation Developmental/Repro Test - 10, 50, 116 PPM - No repro effects; smaller pups @ 116 ppm  
Mouse, 18 month oral oncogenicity study - @ 89 - 1399 MG/KG DAY - Increased liver tumors at high dose only.

Acute Overexposure Effects:

Contact with the liquid can result in irritation. Skin contact should be avoided. Prolonged skin contact may result in redness and dermatitis. NMP is moderately toxic by all routes of exposure; however, due to its low vapor pressure, dermal exposure represents the primary hazard in most settings. Contact with the liquid results in moderate eye irritation and may cause temporary corneal clouding. Skin contact results in mild irritation; prolonged skin contact may cause redness and dermatitis. Inhalation of the vapors of NMP may result in respiratory irritation. Accidental ingestion of the liquid causes gastric disturbances and may result in nausea and vomiting.

**Chronic Overexposure Effects:**

In animal studies NMP was embryotoxic by the oral, dermal and intraperitoneal routes, but only after repeated high doses that approached the LD50 or were maternally toxic. Embryotoxicity without maternal toxicity was observed at a high concentration in one rat inhalation study, but not in others. Testicular effects in rats were noted after repeated, high-dose oral and inhalation exposures. NMP was not carcinogenic in rats receiving lifetime exposures via inhalation (100 ppm) or the diet. This product contains a chemical known to the state of California to cause birth defects or other reproductive harm. In a mouse cancer study, high doses of NMP produced liver carcinomas & adenomas in males (1089 Mg/kg) and liver adenomas in females (1399 mg/kg). Middle doses caused liver hypertrophy in males (173 mg/kg) but not females (221 mg/kg). No effects were noted at low doses in either males (89 mg/kg) or females (115 mg/kg).

This product contains xylene:

**Basis for Assessment**Hidden text : Information given is based on product testing.

text Basis for assessment

**Acute Oral Toxicity**Hidden text : Low toxicity: LD50 >2000 mg/kg , Rat

text Acute Oral toxicity

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

**Acute Dermal Toxicity**Hidden text : Low toxicity: LD50 >2000 mg/kg , Rabbit

text Acute dermal toxicity

**Acute Inhalation Toxicity**Hidden text : Low toxicity: LC50>5000 ppm /

text Acute inhalation toxicity

1 hours, Rat

High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.

**Skin Irritation**Hidden text : Irritating to skin.

text Skin irritation

**Eye Irritation**Hidden text : Moderately irritating to eyes.

text Eye irritation

**Respiratory Irritation**Hidden text : Inhalation of vapours or mists may cause irritation to the respiratory system.

text Respiratory irritation

**Repeated Dose Toxicity**Hidden text : Liver: can cause liver damage.

text Repeated dose toxicity

Kidney: can cause kidney damage.

Central nervous system: repeated exposure affects the nervous system.

Auditory system: prolonged and repeated exposures to high concentrations have resulted in hearing loss in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss.

Cardiovascular system: chronic abuse of similar materials has been associated with irregular heart rhythms and cardiac arrest.

**Mutagenicity**Hidden text : Not mutagenic.

text Mutagenicity

**Carcinogenicity**Hidden text : Not carcinogenic in animal studies. (Xylene, Mixed Isomers)

text Carcinogenicity

Limited evidence of carcinogenic effect. (Ethylbenzene)

**Reproductive and Developmental Toxicity** : Does not impair fertility. (Xylene, Mixed Isomers)

Hidden text **Reproductive and developmental toxicity**

Repeated inhalation of Ethyl Benzene for 186 days at levels well exceeding the TLV caused degeneration of the germinal epithelium in the testes of rabbits and monkeys but not of rats.

Causes foetotoxicity in animals at doses which are maternally toxic. (Xylene, Mixed Isomers)

In developmental toxicity studies conducted in laboratory animals, there is no evidence of teratogenicity following inhalation exposure to xylene, but delayed development and some behavioural impairments have been observed in offspring.

Hidden text

**Hidden text Additional Information** Hidden text Additional information : Over exposures of humans to xylene or xylene solvent mixtures produced predominately central nervous system (CNS) effects with less common effects reported to the lung, gastrointestinal tract, liver, kidney and heart.

**Material** : **Carcinogenicity Classification**

Hidden text

Hidden text pulling information from components

Ethylbenzene : **Hidden text**  
ACGIH Group A3: Confirmed animal carcinogen with unknown relevance to humans.**Hidden text**

Ethylbenzene : IARC 2B: Possible carcinogen.**Hidden text**

Xylene, Mixed Isomers : **Hidden text**  
ACGIH Group A4: Not classifiable as a human carcinogen.**Hidden text**

Xylene, Mixed Isomers : IARC 3: Classification not possible from current data.**Hidden text**

This product contains < .2% residual 4,4'-methylenedianiline (MDA):

Dermal absorption of MDA is rapid. Acute exposure via inhalation, ingestion or absorption through the skin can induce liver toxicity and symptoms indicative of hepatitis. These effects are totally reversible at exposure levels below the recommended workplace exposure limits. Direct contact with the eye or ingestion of MDA can result in damage to the retina of the eye. Direct contact may be irritating to the skin, causing dermatitis. Long term overexposure to MDA via inhalation, ingestion or dermal absorption is suspected to cause bladder cancer in humans, MDA is considered a suspected human carcinogen by OSHA, the international Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), the American Conference of Governmental Industrial Hygienists (ACGIH, and the National Institute for Occupational Safety and Health (NIOSH).

## **Section 12**

### **Ecological Information**

**General Comments:** Do not allow material to be released into the environment without proper governmental permits

## **Section 13**

### **Disposal Considerations**

**Waste Disposal Method:** Recover or recycle if possible.

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Empty container retains product residue. Observe all precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue and puncture or otherwise destroy empty container before disposal. Disposal should be made in accordance with federal, state and local regulations.

## **Section 14**

### **Transportation Information**

**Hazardous for Shipping:** Yes

**DOT Shipping Name:** Paint  
**Technical Name:** N/A  
**DOT Hazard Class:** 3  
**DOT Labels:** Flammable  
**UN Number:** UN1263  
**Placards:** UN1263 Flammable  
**Packing Group:** III  
**Air (IATA):** Paint, 3, UN1263, PGIII  
**Sea (IMDG):** Paint, 3, UN1263, PGIII

## **Section 15**

### **Regulations**

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.**Hidden text**  
The regulatory information provided is not intended to be comprehensive. Other regulations may apply to this material.

**Federal Regulatory Status**

**Notification Status** **Hidden text Notification status**

Hidden text	AICS	Hidden text Listed.H idden text Hidden text listed. Hidden text	
DSL		Hidden text Hidden text Listed.H idden text Hidden text listed. Hidden text	
INV (CN)		Hidden text Hidden text Listed.H idden text Hidden text listed. Hidden text	
ENCS (JP)		Hidden text Hidden text (3)-3 Listed.H idden text Hidden text listed. Hidden text	
TSCA		Hidden text Hidden text Listed.H idden text Hidden text listed. Hidden text	
EINECS		Hidden text Hidden text 215-535-7 Listed.H idden text Hidden text listed. Hidden text	
KECI (KR)		Hidden text Hidden text 97-1-275 Listed.H idden text Hidden text listed. Hidden text	

KECI (KR) Hidden text KE-35427  
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Hidden text  
**Comprehensive Environmental Release, Compensation & Liability Act (CERCLA) Hidden text Comprehensive Environmental Release, Compensation & Liability Act (CERCLA)**

Hidden text Note: Tthis null group is necessary, but why (see ZISIWVI\_MSDSUS\_FILTER)???

**Hidden text**

XyleneHidden text (1330-20-7) Reportable quantity:  
100  
lbs  
Hidden text

Hidden text Note: Tthis null group is necessary, but why (see ZISIWVI\_MSDSUS\_FILTER)???

Hidden text pulling information from component level

Hidden text

Hidden text

Xylene, Mixed Isomers (1330-20-7) Reportable quantity:  
100  
lbs  
Hidden text

Hidden text

Ethylbenzene (100-41-4) Reportable quantity:  
1,000  
lbs  
Hidden text

Hidden text

Benzene (71-43-2) Reportable quantity:  
10  
lbs  
Hidden text

Hidden text

Hidden text pulling information from component level

Hidden text

**Hidden text**

**Clean Water Act (CWA) Section 311 Hidden text Clean Water Act (CWA) Section 311**

Xylene (1330-20-7)

Reportable quantity:

100

lbs

Hidden text

Note: This null group is necessary, but why (see ZISIWVI\_MSDSUS\_FILTER)???

pulling information from component level

Hidden text

Hidden text

Xylene, Mixed Isomers (1330-20-7)

Reportable quantity:

100

lbs

Hidden text

Ethylbenzene (100-41-4)

Reportable quantity:

1,000

lbs

Hidden text

Benzene (71-43-2)

Reportable quantity:

10

lbs

Hidden text

Hidden text

pulling information from component level

pulling information from component level

Hidden text

**SARA Hazard Categories (311/312) Hidden text SARA Hazard categories (311/312)**

Immediate (Acute) Health Hazard. Delayed (Chronic) Health Hazard. Fire Hazard.

pulling information from component level

Hidden text

**SARA Toxic Release Inventory (TRI) (313) Hidden text SARA Toxic Release Inventory (TRI) (313)**

Hidden text

Xylene, Mixed Isomers (1330-20-7) < 35.00 %

Hidden text

Ethylbenzene (100-41-4) < 10.00 %

Hidden text

Benzene (71-43-2) < 0.02 %

Hidden text

pulling information from component level

Note: This null group is necessary, but why (see ZISIWVI\_MSDSUS\_FILTER)???

pulling information from component level

Hidden text

pulling information from component level  
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Hidden text pulling information from component level  
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Hidden text pulling information from component level  
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Hidden text

### State Regulatory Status

#### California Safe Drinking Water and Toxic Enforcement Act (Proposition 65) **Hidden text California Safe Drinking Water and Toxic Enforcement** **Hidden text Act (Proposition 65):**

This product contains one or more chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Hidden text pulling information from component level

Hidden text  
Hidden text

Hidden text  
Ethylbenzene (100-41-4) < 10.00 **Hidden text** %

Carcinogenic.  
**Hidden text**  
Hidden text

Benzene (71-43-2) < 0.02 **Hidden text** %

Carcinogenic.  
**Hidden text**  
Hidden text

Hidden text

Developmental toxin.  
**Hidden text**  
Hidden text

Hidden text

Male reproductive toxin.  
**Hidden text**  
Hidden text

Hidden text pulling information from component level

Hidden text

**Hidden text New Jersey Right-To-Know Chemical List** **Hidden text New Jersey Right-To-Know Chemical List:**

Hidden text

Hidden text

Xylene, Mixed Isomers (1330-20-7) 32.00Hidden text %Hidden text

Hidden text  
Hidden text

Hidden text Hidden text  
Hidden text

Ethylbenzene (100-41-4) < 10.00Hidden text %Hidden text

Hidden text  
Hidden text

Hidden text Hidden text  
Hidden text

Benzene (71-43-2) < 0.02Hidden text %Hidden text

Hidden text  
Hidden text

pulling information from component level

Hidden text  
Hidden text

**Pennsylvania Right-To-Know Chemical List Hidden text Pennsylvania Right-To-Know Chemical List:**

Hidden text

Xylene, Mixed Isomers (1330-20-7) < 35.00Hidden text %Hidden text

Environmental hazard.  
Hidden text  
Hidden text

Hidden text Hidden text

Listed.  
Hidden text  
Hidden text

Hidden text Hidden text

Ethylbenzene (100-41-4) < 10.00Hidden text %Hidden text

Environmental hazard.  
Hidden text  
Hidden text

Hidden text Hidden text

Listed.  
Hidden text  
Hidden text

Hidden text Hidden text

Benzene (71-43-2) < 0.02Hidden text %Hidden text

Special hazard.  
Hidden text  
Hidden text

Hidden text Hidden text

Environmental hazard.  
Hidden text  
Hidden text

Hidden text Hidden text

Listed.  
Hidden text  
Hidden text

Hidden text

Hidden text

**Section 16**

**Other Information**

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This information is furnished without warranty, representation, inducement or license of any kind, except that it is accurate to the best of Tech Line Coatings, Inc., knowledge or obtained from sources believed by Tech Line Coatings, Inc. to be accurate. Tech Line Coatings, Inc. does not assume any legal responsibility for use or reliance upon same. Before using any chemical, read its label, instructions and material safety data sheet.