

# SDS

# Safety Data Sheet

TB-5

MSDS Number:

Revision Date: 7/22/2016

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1	PRODUCT AND COMPANY IDENTIFICATION
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**Manufacturer**

Advanced Polymer Technology  
P.O. Box 160  
109 Conica Lane  
Harmony, PA 16037

Contact: Senior Chemist  
Phone: 724-452-1330  
Fax: 724-452-1703  
Email: info@advpolytech.com  
Web: www.advpolytech.com

Product Name: TB-5  
Revision Date: 7/22/2016

Transportation emergency phone number: ChemTel Inc. (800)255-3924, +1 (813)248-0585

2	HAZARDS IDENTIFICATION
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NFPA: Health = 3, Fire = 1, Reactivity = 0



GHS Signal Word:  
DANGER

GHS Hazard Pictograms:



GHS Classifications:  
Health, Acute toxicity, 3 Oral  
Health, Skin corrosion/irritation, 1 B

GHS Phrases:

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H301 - Toxic if swallowed  
H314 - Causes severe skin burns and eye damage

**GHS Precautionary Statements:**

P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor/physician.  
P360 - Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.  
P405 - Store locked up.

3	COMPOSITION/INFORMATION ON INGREDIENTS
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Ingredients:

Cas #	Percentage	Chemical Name
6674-22-2	<15%	Pyrimido[1,2-a]azepine, 2,3,4,6,7,8,9,10-octahydro-

4	FIRST AID MEASURES
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General advice : Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

Eye contact : Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.

Skin contact : Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Flush immediately with copious amounts of water. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing.

Ingestion : Never give anything by mouth to an unconscious person. If swallowed, seek medical advice immediately and show this container or label. Prevent aspiration of vomit. Turn victim's head to the side.

Inhalation : If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

Most important symptoms/effects - acute and delayed : Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Eye disease. Skin disorders and Allergies.

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## FIRE FIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam.  
Carbon dioxide (CO<sub>2</sub>).  
Dry chemical.  
Dry sand.  
Limestone powder.

Specific hazards : Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

Special protective equipment for fire-fighters : Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

Further information : Do not allow run-off from fire fighting to enter drains or water courses., Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures : Use self-contained breathing apparatus and chemically protective clothing.  
Evacuate personnel to safe areas.

Environmental precautions : Construct a dike to prevent spreading.

Methods for cleaning up : Approach suspected leak areas with caution. Call Emergency Response number for advice. Place in appropriate chemical waste container.

Additional advice : If possible, stop flow of product.

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## HANDLING AND STORAGE

Handling Precautions:

Avoid contact with skin and eyes. Emergency showers and eye wash stations should be readily accessible.  
Adhere to work practice rules established by government regulations. Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage Requirements:

Do not store near acids. Store preferably outdoors, above ground, and surrounded by dikes to contain spills or leaks. Keep containers tightly closed in a dry, cool and well-ventilated place.

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## EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Provide readily accessible eye wash stations and safety showers.  
Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

**Personal Protective Equip:** Respiratory protection : Wear appropriate respirator when ventilation is inadequate.

Hand protection : Butyl-rubber  
Nitrile rubber.  
Neoprene gloves.  
Impervious gloves.  
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection : Full face shield with goggles underneath.

Skin and body protection : Impervious clothing.

Rubber or plastic boots.  
Slicker Suit.

Special instructions for protection and hygiene : Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash hands at the end of each workshift and before eating, smoking or using the toilet. Provide readily accessible eye wash stations and safety showers.

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## PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Colorless Liquid  
**Physical State:** Liquid  
**Flash Point:** > 205 °F (> 96.11 °C)

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## STABILITY AND REACTIVITY

**Stability:** No decomposition if used and stored according to specifications.

**Conditions to Avoid:** Keep ignition sources away - Do not smoke.  
Moisture.  
Keep away from heat and direct sunlight.  
Store away from oxidizing agents.

**Materials to Avoid:** Reacts with water.  
Reacts with oxidizing agents.  
Reacts with alkali, amines and strong acids.  
Contact with acids releases toxic gases.  
Reacts with peroxides and other radical forming substances.  
Reacts with certain metals.

**Hazardous Decomposition:** Carbon monoxide and carbon dioxide  
Nitrogen oxides (NOx)  
Hydrogen cyanide (prussic acid)  
Poisonous gases/vapours

**Hazardous Polymerization:** Will not occur.

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## TOXICOLOGICAL INFORMATION

### Likely routes of exposure

Effects on Eye : Causes eye burns. May cause blindness.

Effects on Skin : Causes skin burns.

Inhalation Effects : Inhalation of aerosol may cause irritation to the upper respiratory tract.

Ingestion Effects : Toxic if swallowed. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Symptoms : Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Eye disease., Skin disorders and Allergies.

### Acute toxicity

Acute Oral Toxicity : LD50 : 251 - 300 mg/kg Species : Rat.

Inhalation : No data is available on the product itself.

Acute Dermal Toxicity : LD50 : > 1,233 mg/kg Species : Rabbit.

Skin corrosion/irritation : Corrosive in an in vitro test.

Serious eye damage/eye irritation : Severe eye irritation., Corrosive to the eyes of a rabbit.

### Chronic toxicity or effects from long term exposures

Carcinogenicity : No data available.

Reproductive toxicity : No data is available on the product itself.

Germ cell mutagenicity : No evidence of mutagenic activity was observed in a bacterial mutation assay.

Specific target organ systemic toxicity (single exposure) : No data available.

Specific target organ systemic toxicity (repeated exposure) : No data available.

Aspiration hazard : No data available.

### Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Eye disease., Skin disorders and Allergies.

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## ECOLOGICAL INFORMATION

### Ecotoxicity effects

Aquatic toxicity : LC50 (96 h) : 100 - 220 mg/l Species : Golden orfe (*Leuciscus idus*).

EC50 (48 h) : 50 mg/l Species : *Daphnia*

Toxicity to other organisms : (17 h) : 330 mg/l Species : Toxicity to bacteria

### Persistence and degradability

Biodegradability : According to the results of tests of biodegradability this product is not readily biodegradable.

Chemical Oxygen Demand (COD) : 230 mg/l

Mobility : No data available.

Bioaccumulation : No data is available on the product itself.

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## DISPOSAL CONSIDERATIONS

### Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

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## TRANSPORT INFORMATION

### DOT

UN/ID No. : UN2922

Proper shipping name : Corrosive liquids, toxic, n.o.s., (Diazabicyclo(5.4.0)undec-7-ene, 1,8- (dbu))

Class or Division : 8

Packing group : II

Label(s) : 8 (6.1)

Marine Pollutant : No

### IATA

UN/ID No. : UN2922

Proper shipping name : Corrosive liquid, toxic, n.o.s., (Diazabicyclo(5.4.0)undec-7-ene, 1,8- (dbu))

Class or Division : 8

Packing group : II

Label(s) : 8 (6.1)

Marine Pollutant : No

### IMDG

UN/ID No. : UN2922

Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S., (Diazabicyclo(5.4.0)undec-7-ene, 1,8-(dbu))

Class or Division : 8

Packing group : II

Label(s) : 8 (6.1)

Marine Pollutant : No

### TDG

UN/ID No. : UN2922

Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S., (Diazabicyclo(5.4.0)undec-7-ene, 1,8-(dbu))

Class or Division : 8

Packing group : II

Label(s) : 8 (6.1)

Marine Pollutant : No

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## REGULATORY INFORMATION

### COMPONENT / (CAS/PERC) / CODES

\*Pyrimido[1,2-a]azepine, 2,3,4,6,7,8,9,10-octahydro- (6674222 <15%) TSCA

### REGULATORY KEY DESCRIPTIONS

TSCA = Toxic Substances Control Act

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## OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.