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TB 8 RN

1	PRODUCT AND COMPANY IDENTIFICATION
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Product Identifier: TB 8 RN
Revision Date: 4/16/2019

Supplier Details: Advanced Polymer Technology
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Harmony, PA 16037

Contact: Senior Chemist
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2	HAZARDS IDENTIFICATION
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Classification of Substance

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):
Health, Reproductive toxicity, 2

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: WARNING

GHS Hazard Pictograms:



GHS Hazard Statements:

H361 - Suspected of damaging fertility or the unborn child

GHS Precautionary Statements:

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

The product is not classified according to GHS regulations.

3	COMPOSITION/INFORMATION ON INGREDIENTS
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4	FIRST AID MEASURES
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Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Skin Contact: Wash off with soap and plenty of water.
Eye Contact: Flush eyes with water as a precaution.
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

6	FIRE FIGHTING MEASURES
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Flash Point: 229.44 °C (444.99 °F)

Autoignition Temperature: 305 °C (581 °F)

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

6	ACCIDENTAL RELEASE MEASURES
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Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas.

For personal protection see section 8.

Environmental precautions

No special environmental precautions required.

Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

Reference to other sections

7	HANDLING AND STORAGE
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Handling Precautions: For precautions see section 2.

Storage Requirements: Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Combustible liquids

8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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Engineering Controls: Educate and train employees in safe use of this product. Follow all label instruction. Local exhaust should be used to maintain levels below the TLV whenever this product is processed, heated or spray applied. For spray applications, an air-supplied respirator must be worn. All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

Personal Protective Equipment:

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatriil®

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatriil®

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
No special environmental precautions required.

Polypropylene glycol 25322-69-4
TWA 10.000000 mg/m³ USA. Workplace Environmental Exposure Levels (WEEL)
TWA 10.000000 mg/m³ USA. Workplace Environmental

9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance:	Colorless Liquid	Freezing or Melting Point:	Melting point/range: < -149.99 °C (< -237.98 °F)
Physical State:	Liquid	Flash Point:	229.44 °C (444.99 °F)
Boiling Point:	287.6 °C (549.7 °F)	Autoignition Temperature:	305 °C (581 °F)

10	STABILITY AND REACTIVITY
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Chemical Stability: No decomposition if used and stored according to specifications.

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

Materials to Avoid identification: 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.

11	TOXICOLOGICAL INFORMATION
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Acute toxicity
LD50 Oral - Rat - > 2,000 mg/kg
Inhalation: No data available
LD50 Dermal - Rabbit - male - > 3,000 mg/kg
(OECD Test Guideline 402)

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation
(Directive 67/548/EEC, Annex V, B.5.)

Respiratory or skin sensitisation
in vivo assay - Mouse
Result: Does not cause skin sensitisation.
(OECD Test Guideline 429)

Germ cell mutagenicity
Ames test
S. typhimurium
Result: negative

12	ECOLOGICAL INFORMATION
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Toxicity to fish
static test LC50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates
static test EC50 - Daphnia magna (Water flea) - 105.8 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae static test
EC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria
EC50 - Sludge Treatment - > 1,000 mg/l - 3 h (OECD Test Guideline 209)

Persistence and degradability
Biodegradability aerobic - Exposure time 28 d
Result: 86.6 % - Readily biodegradable (OECD Test Guideline 301F)

Bioaccumulative potential
No data available

Mobility in soil
No data available

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects
No data available

13	DISPOSAL CONSIDERATIONS
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Recommendation
Smaller quantities can be disposed of with household waste.
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.
Recommended cleansing agents: Water, if necessary together with cleansing agents. Recommendation
Smaller quantities can be disposed of with household waste.
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.
Recommended cleansing agents: Water, if necessary together with cleansing agents.

14	TRANSPORT INFORMATION
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UN-Number DOT, ADR, ADN, IMDG, IATA	N/A
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	N/A
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class	N/A
Packing group DOT, ADR, IMDG, IATA	N/A
Marine pollutant	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation"	---

15	REGULATORY INFORMATION
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Component (CAS#) [%] - CODES

Regulatory CODE Descriptions

16	OTHER INFORMATION
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HMIS	
HEALTH	<input checked="" type="checkbox"/> <input type="checkbox"/>
FLAMMABILITY	<input type="checkbox"/>
PHYSICAL HAZARD	<input type="checkbox"/>
PERSONAL PROTECTION	<input type="checkbox"/>

PPE

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.

Revision Date: 4/16/2019