# SAFETY DATA SHEET

Preparation Date: June, 2018

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th>AMN 3030B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name</td>
<td>AMN 3030B</td>
</tr>
<tr>
<td>Other means of identification</td>
<td>Aromatic diamine blend</td>
</tr>
<tr>
<td>Chemical Family</td>
<td>(C2H5)(CH3)C6H(NH2)2</td>
</tr>
<tr>
<td>Formula</td>
<td>(C2H5)(CH3)C6H(NH2)2</td>
</tr>
</tbody>
</table>

**Recommended use of the chemical and restrictions on use**

- **General function**: Curing chemical.
- **Uses advised against**: No information available

**Company manufacture**

Forsch Polymer Corp.
3025 S. Wyandot st.
Englewood, Co 80110

**For Non-Emergency**

303-322-9611

**Email**

forschpolymerco@aol.com

**Emergency telephone number**

303-548-7716

## 2. HAZARDS IDENTIFICATION

### Classification

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity - Oral</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute Toxicity - Dermal</td>
<td>Category 4</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Category 2</td>
</tr>
<tr>
<td>Acute aquatic toxicity</td>
<td>Category 1</td>
</tr>
<tr>
<td>Chronic aquatic toxicity</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

### Label elements

**Signal Word**: Warning

**Hazard Statements**

- Harmful if swallowed
- Harmful in contact with skin
- Causes serious eye irritation
- May cause damage to organs through prolonged or repeated exposure
- Very toxic to aquatic life with long lasting effects

### Emergency Overview

- **Emergency Phone Number**: 303-322-9611
- **Emergency Telephone Numbers**: 303-548-7716
- **Website**: www.forschpolymerco.com

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Appearance Liquid  Color Clear, Yellow.  Odor Pungent

Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Avoid release to the environment

Response
Get medical advice/attention if you feel unwell
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
Call a POISON CENTER or doctor/physician if you feel unwell
Wash contaminated clothing before reuse
IF INHALED: Move to fresh air.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth
Collect spillage

Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Other Information
Unknown Acute Toxicity  2.5% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation 3.1. Substances.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethyltoluenediamine</td>
<td>68479-98-1</td>
<td>30 – 95%</td>
</tr>
<tr>
<td>2,2,4 Trimethyl – 1,3 Pentanediol Disobutyrate</td>
<td>6846-50-0</td>
<td>5 – 50%</td>
</tr>
</tbody>
</table>

Note: The exact concentrations of the above listed chemicals are being withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures
Eye contact  In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact  Remove contaminated clothing and shoes. After contact with skin, wash immediately with plenty of water. Wash clothing before reuse. Seek medical advice.

Inhalation  Move to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, apply artificial respiration. Seek medical advice.
Ingestion
Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice.

Most important symptoms and effects, both acute and delayed
Symptoms Harmful in contact with skin. Harmful if swallowed. Causes eye irritation.

Indication of any immediate medical attention and special treatment needed
Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media Carbon dioxide, dry chemicals, foam, water spray (mist).

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical
Combustion/explosion hazards In case of fire and/or explosion do not breathe fumes.

Hazardous Combustion Products Oxides of carbon and nitrogen.

Explosion Data
Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Protective Equipment and Precautions for Firefighters
Wear self-contained breathing apparatus and protective suit. Do not breathe smoke or vapors.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Personal precautions Wear suitable gloves and eye/face protection.

Environmental Precautions
Environmental precautions Contain any spill with dikes or absorbents to prevent migration and entry into sewers or streams. May require excavation of contaminated soil.

Methods and material for containment and cleaning up
Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning up Take up small spills with dry chemical absorbent. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent.

7. HANDLING AND STORAGE

Precautions for safe handling
Handling Do not breathe vapours or spray mist. Mechanical ventilation is recommended. Local exhaust is needed at source of vapours.

Conditions for safe storage, including any incompatibilities
Storage Keep containers tightly closed in a dry, cool and well-ventilated place. To maintain quality: Keep away from heat. Keep away from direct sunlight.

Incompatible Materials Strong acids. Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure Guidelines A•
Engineering Controls
Ensure adequate ventilation, especially in confined areas. See Extended Safety Data Sheet.

Individual protection measures, such as personal protective equipment
Eye/face Protection Chemical goggles or face shield with safety glasses.
Skin Protection DERMAL PROTECTION: Dermal exposure is considered the primary route of exposure. BODY: A protective apron or suit such as polyethylene terephthalate or equivalent should be used to minimize exposure from splashes.
Respiratory protection Approved organic vapour respirator when exposed to vapors from heated material. Approved supplied-air respirator, in case of emergency.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
Appearance Liquid
Color Clear, Yellow.Amber-Dark
Odor Pungent.
Odor Threshold No information available
Molecular Weight No information available
pH Not available
Melting point/freezing point Boiling Point/Range 308.3 °C / 587 °F (1013 hPa)
Flash Point 169 °C / 336 (PMCC)
Evaporation Rate No information available
Flammability (solid, gas) No information available
Flammability Limit in Air
  Upper flammability limit: No information
  Lower flammability limit: available, No
Vapor Pressure information available
Vapor Density 0.000971 Pa (25°C) 6.2
Relative density 1.02 (20°C)
Solubility(ies)
  Water Solubility 1% (20°C)
  Solubility in other No information available
Autoignition temperature 1.16 (25 °C)
Decomposition temperature No information available
Viscosity, kinematic Dynamic viscosity 286 mPa.s (20°C)
Explosive Properties None
Oxidizing Properties None

10. STABILITY AND REACTIVITY

Reactivity Hazard No data available
Stability Stable under normal conditions.
Hazardous Reactions No hazardous reaction expected under normal handling.
Hazardous Polymerization None under normal processing.
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

- Inhalation: Not an expected route of exposure.
- Eye contact: Irritating to eyes.
- Skin Contact: Harmful if absorbed through skin.
- Ingestion: Harmful if swallowed.

Potential Health Effects

Acute Effects
- Skin corrosion/irritation: Skin irritation: Slightly irritating but not sufficient for classification.
- Serious eye damage/eye irritation: Eye irritation; Irritating to eyes. (rabbit).
- Respiratory irritation: No data available
- Sensitization: Not sensitizing. (guinea pig).

Chronic Effects

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethyldiuronediadiazine</td>
<td>68479-98-1</td>
<td>NL</td>
<td>NL</td>
<td>NL</td>
<td>NL</td>
</tr>
</tbody>
</table>

| 2,4 Trimethyl - 1,3 Pentanediol Disobutylate | 6846-50-0 | NL | NL | NL | NL |

Reproductive Effects
- No effect on reproductive organs in repeated dose studies in rats.

STOT - single exposure
- No information available.

STOT - repeated exposure
- Causes damage to organs through prolonged or repeated exposure.

Chronic Effects
- A two year feeding study in rats showed DETDA cause effects in the pancreas, liver, thyroid and eyes. An increase in the number of tumors in the liver and thyroid of male rats and in the liver and possibly mammary gland of female rats was found.

Target Organ Effects
- Pancreas.

Aspiration hazard
- No information available.

Numerical measures of toxicity

Product information
- No information available

Unknown Acute Toxicity
- 2.5% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATEmix (oral)</td>
<td>757 mg/kg</td>
</tr>
<tr>
<td>ATEmix (dermal)</td>
<td>1128 mg/kg</td>
</tr>
<tr>
<td>LD50 Oral</td>
<td>Rat Oral LD50: 738 mg/kg</td>
</tr>
<tr>
<td>LD50 Dermal</td>
<td>Rabbit Dermal LD50: &gt; 2000 mg/kg</td>
</tr>
</tbody>
</table>
12. ECOLOGICAL INFORMATION

Ecotoxicity
Very toxic to aquatic life with long lasting effects

<table>
<thead>
<tr>
<th>Component</th>
<th>Freshwater Algae EC50/72h</th>
<th>Freshwater Fish LC50/96h</th>
<th>Water Flea EC50/48h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethytolediamine</td>
<td>104 mg/l - Algae EC10/72h: 54 mg/l</td>
<td>&gt; 104 mg/l - Fish LC50/48h: 200 mg/l</td>
<td>5.8 mg/l - Water Flea LC50/48h: 0.5 mg/l</td>
</tr>
<tr>
<td>2,2,4 Trimethyl - 1,3 Pentanediol Dicosbutyrate 6846-50-0</td>
<td>NA</td>
<td>6mg/L</td>
<td>1.46mg/L</td>
</tr>
</tbody>
</table>

Persistence/Degradability

Bioaccumulation/ Accumulation
No information available.

Mobility in Environmental Media
The substance is expected to partition primarily to soil and water. Koc = .32-551 l/kg (QSAR estimate). Henry's law constant = .000266. (20 °C). (QSAR estimate).

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Waste Disposal Method
Dispose in a safe manner in accordance with local/national regulations. Absorb and incinerate.

Contaminated Packaging
Do not reuse container.
14. TRANSPORT INFORMATION

DOT

Proper Shipping Name: Diethyltoluenediamine
Hazard Class: 9
UN No.: UN3082
Packing Group: III

IMDG/IMO

IMO Class: 9
Packing Group: III
UN-No: 3082
IMO Labelling and Marking: 9 + Marine Pollutant Marking
Proper Shipping Name: Environmentally hazardous substance liquid,N.O.S. (Diethyltoluenediamine)
EmS: F-A , S-F
Marpol -Annex II: Not determined
Marpol - Annex III: Marine Pollutant
Transport Description: UN 3082 Environmentally hazardous substance liquid,N.O.S. (Diethyltoluenediamine), 9, III, Marine pollutant

IATA/ICAO

IATA/ICAO Class: 9
Packing Group: III
UN-No: 3082
IATA/ICAO Labelling/Marking: 9 + ‘Environmentally hazardous substance’ mark
Passenger Aircraft: Maximum net quantity per package: 450 L
Cargo aircraft only: Maximum net quantity per package: 450 L
Proper shipping name: Environmentally hazardous substance liquid,N.O.S. (Diethyltoluenediamine)
Transport Description: UN 3082 Environmentally hazardous substance liquid,N.O.S. (Diethyltoluenediamine), 9, III

15. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>International Inventories</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>AICS</th>
<th>ELINCS</th>
<th>ENCS</th>
<th>ROHS</th>
<th>PICCS</th>
<th>IECSC</th>
<th>NZIoC</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMN 3030B</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
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<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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</tbody>
</table>

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

SARA 311/312 Hazardous Categorization

Acute Health Hazard: Yes
Chronic Health Hazard: Yes
Fire Hazard: No
Sudden Release of Pressure Hazard: No
Reactive Hazard: No

Reportable and Threshold Planning Quantities

The following components have RQs and/or TPQs under SARA and/or CERCLA

State Right to Know

This product contains the following chemicals regulated in the states listed below. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

California Prop 65: To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th></th>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>-</td>
</tr>
<tr>
<td>HMIS</td>
<td>2</td>
<td>1</td>
<td>-</td>
<td>0</td>
</tr>
</tbody>
</table>

Preparation Date: May 2015
Revision Date: May 2015

Disclaimer:
The information contained herein is accurate to the best of our knowledge. The Company makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.

End of Safety Data Sheet