# SAFETY DATA SHEET

Preparation Date: June, 2018

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

**Product Identifier** 

Product Name AMN 10020B

Other means of identification

Chemical Family Aromatic diamine blend Formula (C2H5)2(CH3)C6H(NH2)2

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

Emergency Telephone Numbers 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)

Acute Toxicity - Oral	Category 4
Acute Toxicity - Dermal	Category 4
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

## Label elements

**Emergency Overview** 

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



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.

Component	CAS-No	Weight %
Diethyltoluenediamine	68479-98-1	30 – 95%
2,2,4 Trimethyl – 1,3 Pentanediol Diisobutyrate	6846-50-0	5 – 50%

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

Oxides of carbon and nitrogen.

**Products** 

**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•

•ro•riate en• ineerin controls

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 polyethene tyvek or equivalent should be used to minimize

exposure from splashes.

Respiratory protection Approved organic vapor 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

No information available

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

solvents Partition coefficient 1.16 (25 °C)

Autoignition temperature
Decomposition temperature
Viscosity, kinematic Dynamic
No information available
No information available

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.

Conditions to Avoid Exposure to air.

Materials to avoid Strong acids. Strong oxidizing agents.

Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx).

## 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 Eye irritation: Irritating to eyes. (rabbit).

irritation Respiratory irritation: No data available

Sensitization Not sensitizing. (guinea pig).

Chronic Effects

Mutagenic Effects In vitro mutagenicity test:. Positive and negative results in bacterial and mammalian cells in the

presence of metabolic activation. In vivo mutagenicity tests:. Mouse micronucleus test •

negative. Dominant lethal test, rat, negative.

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

	The fact of the fa							
Component	CAS-No	ACGIH	IARC	NTP	OSHA			
		Carcinogens			Carcinogens			
Diethyltoluenediamine	68479-98-1	NL	NL	NL	NL			

2,2,4 Trimethyl – 1,3 Pentanediol	6846-50-0	NL	NL	NL	NL
Diisobutyrate					

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

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

<u>Product Information</u> 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 .

ATEmix (oral) 757 mg/kg ATEmix (dermal) 1128 mg/kg

LD50 Oral: Rat Oral LD50: 738 mg/kg

LD50 Dermal: Rabbit Dermal LD50: > 2000 mg/kg

Component Information No information available

Component	Rat Oral LD50 :	Rabbit Dermal LD50 :	Rat Inhalation LC50:
Diethyltoluenediamine	738 mg/kg	>2000 mg/kg	NA
2,2,4 Trimethyl – 1,3 Pentanediol Diisobutyrate 6846-50-0	N/A	NA	N/A

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects

Component	Freshwater Algae EC50/72h :	Freshwater Fish LC50/96h	Water Flea EC50/48h:
Diethyltoluenediamine	104 mg/l - Algae EC10/72h : 54 mg/l	> 104 mg/l - Fish LC50/48h : 200 mg/l	5.8 mg/l - Water Flea LC50/48h : 0.5 mg/l
2,2,4 Trimethyl – 1,3 Pentanediol Diisobutyrate 6846-50-0	NA	6mg/L.	1.46mg/L

Persistence/Degradability Not readily biodegradable. Photodegradation: T1/2. Air: 1.484. hour. (calculated).

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 =. 0.000266. (20 °0). (QSAR estimate).

## 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 Class9Packing GroupIIIUN-No3082

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

**IATAIICAO** 

IATA/ICAO Class 9
Packing Group III
UN-No 3082

IATA/ICAO Labelling/Marking
Passenger Aircraft
Cargo aircraft only

9 + 'Environmentally hazardous substance' mark
Maximum net quantity per package: 450 L
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											
International Inventories TSCA DSL NDSL AICS EINECS ELINCS ENCS ROHS PICCS IECSC NZIOC					NZIoC						
	Х	Х	-	Х	Х	-	Х	Х	Х	Х	Χ
AMN 10020B											

#### **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.

<u>California Prop 65:</u> 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

NFPA	Health 2	Flammability 1	Instability 0	Physical Hazards -
HMIS	Health 2	Flammability 1	Physical Hazards 0	

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