

SAFETY DATA SHEET

Preparation Date : 22-Feb-2012

Revision Date: 03-Nov-2014

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

Product Identifier

Product Name AMN 6010B

Other means of identification

Chemical Family Aromatic diamine
CAS-No 106264-79-3

Recommended use of the chemical and restrictions on use

General function Curing chemical.
Uses advised against No information available

Details of the supplier of the safety data sheet

Company Forsch Polymer Corp.
3025 S. Wyandot St.
Englewood, CO. 80110

For Non-Emergency 303-322-9611

'Competent Body for SDS' Bill@forschpolymer.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
Skin Sensitization	Category
Acute aquatic toxicity	Category
Chronic aquatic toxicity	Category

Label elements

Emergency Overview

Warning

Hazard Statements
Harmful if swallowed
May cause an allergic skin reaction
Very toxic to aquatic life with long lasting effects



Appearance Liquid

Color Amber.

Odor Amine.

Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves
 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 ON SKIN: Wash with plenty of soap and water
 If skin irritation or rash occurs: Get medical advice/attention
 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

- May be harmful in contact with skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation 3.1. Substances.

Component	CAS-No	Weight %
4-methyl-2,6-bis(methylthio)-1,3-benzenediamine	102093-68-5	80
2-methyl-4,6-bis(methylthio)-1,3-benzenediamine	104983-85-9	20

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

After contact with skin, wash immediately with plenty of water. Wash clothing before reuse.

Inhalation

Move to fresh air.

Ingestion If swallowed, seek medical advice immediately and show this container or label. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

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. Oxides of sulphur.

Explosion Data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Protective Equipment and Precautions for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ventilate the area. Avoid contact with the skin and the eyes.

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 Mechanical ventilation is recommended. Local exhaust is needed at source of vapours.

Conditions for safe storage, including any incompatibilities

Storage Keep under inert gas. Keep away from heat. Keep away from humidity.

Incompatible Materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Appropriate engineering controls

Engineering Controls	Showers Eyewash stations Ventilation systems.
<u>Individual protection measures, such as personal protective equipment</u>	
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 tyvek or equivalent should be used to minimize exposure from splashes.
Respiratory protection	Approved supplied-air respirator when exposed to vapours from heated material. 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	Amber.
Odor	Amine.
Odor Threshold	No information available
Molecular Weight	214.36
pH	Not available
Melting point/freezing point	No data available
Boiling Point/Range	No information available
Flash Point	Decomposes at 353 °C
Evaporation Rate	176 °C (PMCC)
Flammability (solid, gas)	No information available
Flammability Limit in Air	No information available
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor Pressure	0.133 Pa 146 °C
Vapor Density	No information available
Relative density	1.2 (20°C)
Solubility(ies)	
Water Solubility	<1% (20°C)
Solubility in other solvents	No information available
Partition coefficient	2.63 (20 °C)
Autoignition temperature	No information available
Decomposition temperature	353 °C
Viscosity, kinematic	0.00691 m ² /s (20°C)
Dynamic viscosity	No information available
Explosive Properties	Not applicable
Oxidizing Properties	Not applicable

10. STABILITY AND REACTIVITY

Reactivity Hazard	No data available
Stability	Stable.
Hazardous Reactions	No hazardous reaction expected under normal handling.
Hazardous Polymerization	None under normal processing.
Conditions to Avoid	Keep away from humidity.

Materials to avoid Strong acids. Strong oxidizing agents.

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Not irritating.
Eye contact Not irritating.
Skin Contact Irritating to skin.
Ingestion Harmful if swallowed.

Potential Health Effects

Acute Effects

Skin corrosion/irritation Irritating to skin.
Serious eye damage/eye irritation Not irritating.
Respiratory irritation : Not irritating.
Sensitization Maximisation Test. (guinea pig): Not sensitizing.

Chronic Effects

Mutagenic Effects Ames Test :. Positive and negative results obtained. In vitro mutagenicity test :. Not genotoxic in mammalian cell systems. Mouse micronucleus test :. negative.

Carcinogenicity There are no known carcinogenic chemicals in this product.

Component	CAS-No	ACGIH Carcinogens	IARC	NTP	OSHA Carcinogens
4-methyl-2,6-bis(methylthio)-1,3-benzenediamine	102093-68-5	-			-
2-methyl-4,6-bis(methylthio)-1,3-benzenediamine	104983-85-9	-	-	-	-

Reproductive Effects None known.
STOT - single exposure No information available.
STOT - repeated exposure No information available.

Chronic Effects Rats given this product in the diet for up to 90 days showed increased liver metabolic activity. There were kidney effects observed that were unique to male rats. These effects were similar to changes that have been observed in male rats given hydrocarbons. These effects resolved in animals allowed 30 days recovery. Rats treated for 24 months did not have microscopic alterations in any tissues compared to control animals. Tumors seen in control and treated animals were usual for the age and strain of rats. Details of these studies are available upon request.

Aspiration hazard No information available.

Numerical measures of toxicity

Product Information No information available

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

ATEmix (oral) 379 mg/kg
ATEmix (dermal) 2063 mg/kg
LD50 Oral: Rat Oral LD50: 1515 mg/kg (rat)
LD50 Dermal: Rabbit Dermal LD50: > 2000 mg/kg (rabbit)

Component Information

No information available

12. ECOLOGICAL INFORMATIONEcotoxicity

Very toxic to aquatic life with long lasting effects

LC50/96h/rain bow trout : 7.3 mg/L

EC50/48h/Daphnia : 0.9 mg/L

EC50/72h/algae : (Selenastrum capricornutum): 7.6 mg/L

Persistence/Degradability

Not readily biodegradable. (OECD 301 D).

Bioaccumulation/ Accumulation

No information available.

Mobility in Environmental Media

No information available.

Other adverse effects

May cause long-term adverse effects in the aquatic environment

13. DISPOSAL CONSIDERATIONSWaste treatment methods

Waste Disposal Method

This material and its container must be disposed of as hazardous waste. Dispose in a safe manner in accordance with local/national regulations.

Contaminated Packaging

Do not reuse container.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	Environmentally hazardous substance liquid,N.O.S. (6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine) NOTE: NOT REGULATED IN NON BULK PACKAGES
Hazard Class	9
UN No.	3082
Packing Group	III
Marine Pollutant:	Y.
Description	UN 3082 Environmentally hazardous substance liquid,N.O.S. (6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine), 9, III, NOTE: Not Regulated in Non Bulk Packages

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 6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine)
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 6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine), 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 6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine)
Transport Description	UN 3082 Environmentally hazardous substance, liquid, n.o.s 6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine), 9, III,

15. REGULATORY INFORMATION

International Inventories	TSCA	DSL	NDSL	AICS	EINECS	ELINCS	ENCS	KECL	PICCS	IECSC	NZIoC
AMN 6010B	X	-	X	X	-	X		-		X	X

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any 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

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Right-to-Know

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.

WHMIS Hazards
D1B Toxic materials

16. OTHER INFORMATION

NFPA	lth 2	Flare ability > 1	Instability 0	Physical, Hazards -
HMIS	Health 2	Flammability 1	Physical= Haz 0	

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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