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MATERIAL SAFETY DATA SHEET

MSDS # PMC/RC/016/06

Updated on 02 - Jan - 2006
Product Name ACCINOX BL/BLN
Revision Number +REV 07
UN Number 3082
CAS No. 68412 - 48 - 6

Health Hazard :	1
Fire Hazard :	1
Reactivity :	0
Personal Protection :	X

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

PRODUCT NAME: ACCINOX BL/BLN

Address/Phone No : PMC Rubber Chemicals India Private Limited
Works & Registered Office:
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2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT DESCRIPTION Acetone-diphenylamine condensation product
– complex product

Name	CAS No	%(w/w)
ADPA	68412-48-6	> 65
Diphenylamine	122-39-4	< 25

HAZARDOUS INGREDIENT(S)	CAS No.	Symbol	R Phrases
Diphenylamine	122-39-4	T, N	R/23,24,25 R/33,50,53

3. HAZARDS IDENTIFICATION

Emergency Overview

Caution: Inhalation of dust & fumes may be harmful and irritating to respiratory system.
May cause irritation to skin and eyes.

4. FIRST-AID MEASURES

Inhalation	Remove patient from exposure. Obtain medical attention if ill effects occur.
Skin Contact	Remove contaminated clothing. Wash skin liberally with soap and water. If symptoms (irritation or blistering) occur obtain medical attention.
Eye Contact	Irrigate immediately with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain medical attention if irritation persists.
Ingestion	Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain medical attention.

Further Medical Treatment

Symptomatic treatment and supportive therapy as indicated.

5. FIRE-FIGHTING MEASURES

Flash Point: 110°C (230°F)

Auto ignition temperature: No data

Products of combustion: Thermal decomposition will evolve very toxic, irritant and extremely flammable vapours.

Combustion products: Nitrogen oxides (NO, NO₂), carbon oxides (CO, CO₂), aromatic and aliphatic hydrocarbons.

Extinguishing Media: Water spray, foam, dry powder or CO₂.

Fire Fighting Protective Equipment: A self contained breathing apparatus and suitable full body covering protective clothing should be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear suitable protective equipment

Environmental precautions: May be harmful to aquatic life. Do not allow to enter drains, sewers, watercourses or soil.

Observe government regulations.

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Small spills: Absorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal or recovery.

Large spills: Absorb spillages onto sand, earth or any suitable adsorbent material. Prevent entry into sewers, dike if needed. Pump materials into suitable containers.

7. HANDLING AND STORAGE

7.1 HANDLING

Handling precautions: Avoid contact with clothing, skin and eyes. Use with adequate ventilation. After handling, wash hands with soap and water.

7.2 STORAGE

Suitable containers: Mild steel drums.

Keep away from oxidising agents, acids, alkalis, moisture, heat and direct sunlight. Always store in a cool, well ventilated place.

Storage Temperature : Ambient.

Storage Life : 1-3 years depending upon storage conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Exhaust ventilation/engineering controls necessary to keep the airborne concentration of vapours below their respective TLV.

Wear suitable gloves and eye/face protection.

Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit.

Ensure that eyewash stations and safety showers are proximal to the working station.

Personal Protection: Use safety glasses, Lab coat & gloves.

Occupational Exposure Limits:

TLV/PEL ... Diphenylamine: TWA : 10 (mg/m³) from ACGIH (TLV)
TWA : 10 (mg/m³) from OSHA (PEL)

(Consult local authorities for acceptable exposure limits)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Viscous liquid (staining)
Colour	Dark brown
Odour	Characteristic aromatic amines
pH (Value)	No data.
Boiling Point (Deg C)	170 ⁰ C
Melting Point (Deg C)	Not applicable
Flash Point (Deg C)	110 ⁰ C (closed cup)
Flammable Limits	No data.
Auto Ignition Temp (°C)	No data
Explosive Properties	No data.
Oxidising Properties	No data.
Vapour Pressure (Ps)	No data.
Solubility (Water)	Insoluble
Solubility (Other)	Soluble in acetone, toluene
Partition Coefficient	No data.
Specific Gravity	1.09 – 1.11
Saybolt Viscosity(SFS)	45 – 90 @ 38°C (for Accinox BL)
Saybolt Viscosity(SFS)	65 – 90 @ 54.5°C (for Accinox BLN)

10. STABILITY AND REACTIVITY

Stability	: The product is stable at NTP.
Incompatible materials	: Strong mineral acids and oxidising agents.
Hazardous Decomposition Product(s)	: Irritating fumes consisting of oxides of nitrogen / oxides of carbon, etc.

11. TOXICOLOGICAL INFORMATION

Routes of entry	: Absorbed through skin and inhalation.
Acute toxicity	: Acute oral toxicity (LD50) : 2300 mg/kg (rat)
Inhalation	: May cause irritation
Skin Contact	: May cause mild skin irritation.
Eye Contact	: May cause irritation.
Ingestion	: May be a slight ingestion hazard based on animal testing.
Chronic Effects On Human	: Carcinogenic effects : Classified A4 by ACGIH (DPA) Mutagenic effects : Not available Developmental Toxicity : Not available Reproductive Toxicity : See Remarks

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Remarks : Effects of over exposure: May cause irritation to mucous membranes and respiratory passages. Overexposure to vapours on heating may cause skin irritation and respiratory tract irritation and flu-like symptoms. Diphenylamine is reported teratogenic in rats.

12. ECOLOGICAL INFORMATION

Biodegradation: Not-biodegradable.
 However long term degradation products may arise.
 Acute Fish Toxicity : LC50 (Orange Red Killifish) (48 hour) 5.1 mg/l
 EC50 (Daphnia Magna) (24 hour) 2.3 mg/l
 Acute Algae Toxicity : EC50 Algae (72 hr) 0.18 mg/l

13. DISPOSAL CONSIDERATIONS

Avoid release to sewers and watercourses. Incinerate waste in accordance with local, state or national legislation.

Do not use empty container. Decontaminate / recondition empty drums or dispose of empty container in accordance with local government regulations. Label precautions also apply to the container when empty.

14. TRANSPORT INFORMATION

DOT Classification

Not regulated by ground or rail if shipped or transported in containers less than 450 litres.

For other details see IMDG Classification.

IMDG Classification

Proper shipping name : Environmentally hazardous substance, liquid, N.O.S.
 Class : 9
 Subsidiary risk : Marine pollutant
 UN ID# : UN 3082
 Packing group : III

15. REGULATORY INFORMATION

Not Classified as Dangerous for Supply/Use.

EC Classification Toxic, Hazard Symbol T
 Dangerous for the environment, N



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Risk Phrases : R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed
R 33 Danger of cumulative effects
R 50/53 Very toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment

Safety Phrases: S24 Avoid contact with skin.
S36 Wear suitable protective clothing.
S60 This material and/its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Chemical Inventory : Europe: This product is on the EINECS inventory
US : This product is on the TSCA inventory

FDA : Food additive : No data available
Food contact : No data available

16. OTHER INFORMATION

HMIS rating: Health: 1
Flammability: 1
Reactivity: 0
PPI: X

Legend : 0(HMIS) Minimal hazard
1(HMIS) Slight hazard
2(HMIS) Moderate hazard
3(HMIS) Serious hazard
4(HMIS) Severe hazard
X(HMIS) Personal protective rating to be supplied by user depending on the use conditions

Use : Antidegradant for rubber.

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