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MATERIAL SAFETY DATA SHEET

MSDS # PMC/RC/021/06

Updated on 02 - Jan - 2006
Product Name ACCINOX 445
Revision Number +REV 04
UN Number 3077
CAS No. 10081-67-1

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

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

PRODUCT NAME: ACCINOX 445

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

PRODUCT DESCRIPTION : 4,4'-Bis(α,α -dimethylbenzyl) diphenylamine

CAS No 10081-67-1
99 % (w/w)

HAZARDOUS INGREDIENT(S)	CAS No.	%(w/w)	Symbol	R Phrases
None			None	None

3. HAZARDS IDENTIFICATION

May cause irritation to skin and eyes. Inhalation of high concentrations of dust may irritate nose, throat and respiratory tract.

4. FIRST-AID MEASURES

Inhalation Remove patient from exposure.
Obtain medical attention if ill effects occur.

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- Skin Contact** Remove contaminated clothing. Wash skin liberally with soap and water.
If symptoms (irritation or blistering) persist obtain medical attention.
- Eye Contact** Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain medical attention.
- 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

Dust may form explosive mixture in air. Flash point (closed cup) 276°C (solid form)

Combustion or thermal decomposition will evolve very toxic, irritant and extremely flammable vapours. Combustion products nitrogen oxides, carbon monoxide, carbon dioxide.

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

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

Sensitivity to static discharge: Dust suspended in critical proportions in air represents a severe explosion hazard. Dust may be ignited by any significant heat source, e.g. electrical arcs, sparks, flame etc. All transfer equipment must be bonded, grounded and vented. Prohibit flow of dust through non-conductive pipes or ducts

6. ACCIDENTAL RELEASE MEASURES

Do not allow to enter drains, sewers or watercourses.
Clear up spillages using a suitable industrial vacuum.
Avoid creating dust and collect into a container for disposal as per local regulation

7. HANDLING AND STORAGE

7.1 HANDLING

Avoid contact with skin and eyes.

7.2 STORAGE

Suitable containers laminated paper bags with polyethylene liner.
Keep away from oxidising agents, acids, alkalis, moisture, heat
and direct sunlight.

Storage Temperature : Ambient.
Storage Life : 1 year(s)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear suitable gloves and eye/face protection.
Wear suitable respiratory protective equipment if exposure to levels above the
occupational exposure limit is likely.

Occupational Exposure Limits

No occupational exposure limit listed but 5 mg/m³ total dust is recommended

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid
Colour	White powder
Odour	Slight, characteristic
pH (Value)	No data.
Boiling Point (Deg C)	No data.
Melting Point (Deg C)	98 - 102
Flash Point (Deg C)	276 ⁰ C closed cup
Flammable Limits	No data.
Auto Ignition	
Temperature (Deg C)	No data.
Explosive Properties	No data.
Oxidising Properties	No data.
Vapour Pressure (Ps)	No data.
Solubility (Water)	Insoluble

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Solubility (Other)	Soluble in acetone, toluene
Partition Coefficient	No data.
Specific Gravity	1.14
Molecular Weight	405
Molecular Formula	C30-H31-N

10. STABILITY AND REACTIVITY

Stability : Stable at NTP
Incompatible with strong mineral acids and oxidising agents
Hazardous Decomposition Product(s): Oxides of carbon and nitrogen
on combustion
Hazardous polymerisation: Will not occur

11. TOXICOLOGICAL INFORMATION

Inhalation	Unlikely to be hazardous by inhalation unless heated. Combustion or thermal decomposition will evolve very toxic and irritant vapours.
Skin Contact	No information available. May cause skin irritation.
Eye Contact	Skin Irritation (Rabbit) : Negative No information available. Dust may cause irritation. Eye Irritation (Rabbit) : Negative
Ingestion	Acute oral LD ₅₀ (Rat) : 10,000 mg/kg
Mutagenicity	Ames Salmonella : Negative
Long Term Exposure	No information available.

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

Not Classified as Dangerous for Transport.

DOT Classification : Not regulated by DOT
IMDG Classification : Not regulated by IMDG
ICAO Classification : Not regulated by ICAO

15. REGULATORY INFORMATION

Not Classified as Dangerous for Supply/Use.

Symbol : None

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.

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 (slightly staining) for NR and synthetic rubbers.

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