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MATERIAL SAFETY DATA SHEET

AFDENE BR45/BR50

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

Product Name	Afdene BR45/BR50
Chemical family	Polybutadiene polymers
Chemical name	Polybutadiene Rubber
Synonyms	1, 3 Butadiene polymer, Butadiene resin, BR
Chemical abstract no.	Not available
NIOSH no.	Not available
Hazchem code	2 T
UN no.	Not available
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2. COMPOSITION

Hazardous components	None
EEC classification	Not available
R Phrases	Not available
S Phrases	Not available

3. HAZARDS IDENTIFICATION

Main Hazard	The polymer itself is essentially non-toxic
Flammability	Combustible
Chemical hazard	Avoid contact with strong oxidisers
Biological hazard	Not applicable
Reproduction hazard	No information is available

Eye effects-eyes	Particles may cause mild irritation
Health effects-skin	Finished product do not seem to effect the skin
Health effects-ingestion	Information not available but is unlikely to cause health effects.
Health effects-inhalation	Not applicable
Carcinogenicity	BR is not carcinogenic in itself
Mutagenicity	No human or animal data available

4. FIRST AID MEASURES

Product in eye	Wash eye gently with water until material causing the irritation is removed.
Product on skin	If irritation occurs wash thoroughly with soap and water
Product ingested	Have person drink several glasses water or milk. Do not induce vomiting.
Product inhaled	Not applicable

5. FIRE FIGHTING MEASURES

Extinguishing media	Water spray, carbon dioxide, dry chemical powder or alcohol/polymer foam. Do not use water jet.
Special hazards	The polymer burning process seems to be self-sustaining as long as fuel and oxygen are present. In fires hazardous combustion gasses are formed: Carbon monoxide and dioxide.
Protective clothing	Wear gloves and use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear adequate personal protection
Environmental precautions	A release or spill would not constitute a safety hazard.
Small Spills	Take up mechanically. Dispose of absorbed material with local regulations for disposal of non hazardous waste
Large spills	As above

7. HANDLING & STORAGE

Suitable material	Not applicable
Handling/Storage	Store below 60°C
Precautions	Protect from sun. In case of thermal processing, provide for extraction of the vapours or adequate ventilation

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Occupational exposure limits	None
Engineering control measures	To reduce hazardous exposures are preferred.
Personal protection-respiratory	No specific guidelines are available transport

Personal protection-hand	Gloves
Personal protection-eye	None. Wear safety goggles if dust is present.
Personal protection-skin	Light protective clothing
Other protection	Wash hands with soap before breaks and after work. Maintain good housekeeping.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Amorphous solid. White to Yellow
Odour	Faint, characteristic
pH	Not applicable
Boiling point	Not applicable
Melting point	Not applicable
Flash point	Not applicable
Flammability	Not applicable
Autoflammability	>440°C
Explosive properties	Not applicable
Oxidizing properties	Not applicable
Vapour pressure	Not applicable
Density	>0.90 g/cm ³
Solubility-water	Insoluble
Solubility-solvent	Soluble in organic solvents that will dissolve rubber
Solubility-coefficient	Not available
Neurotoxicity	Not available

10. STABILITY & REACTIVITY

Conditions to avoid	Not available
Incompatible materials	Stable under normal use. Avoid contact with strong oxidisers.
Hazardous decomposition products	Carbon monoxide and dioxide

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Does not have hazardous effects on health
Skin and eye contact	Not available
Chronic toxicity	Not available
Carcinogenicity	Not available
Mutagenicity	Not available
Reproductive hazards	Not available

12. ECOLOGICAL INFORMATION

Aquatic toxicity-fish	Data not available
Aquatic toxicity-daphnia	Data not available
Aquatic toxicity-algae	Data not available
Biodegradability	Not biodegradable

Bio-accumulation	Data not available
Mobility	Data not available
German wgk	Data not available

13. DISPOSAL CONSIDERATIONS

Disposal methods	Can be disposed of or incinerated together with household refuse in accordance with regulations after consultation with local authority
Disposal of packaging	Recycle packaging where possible. Incinerate if packaging is wood or dispose of as non hazardous waste.

14. TRANSPORT INFORMATION

Land transport	Not restricted
Sea transport	Not restricted
IMDG/IMO Shipping Name: DOT Classification	Crude Synthetic Rubber Non hazardous

15. REGULATORY INFORMATION

EEC hazard classification	This substance has not been published in Commission Directives 93/72/EEC or 94/69/EC
Risk phrases	Data not available
Safety phrases	Data not available
National legislation	Data not available

16. OTHER INFORMATION

CAS NO 9003-17-2

Approved by: J Jorden & G Thom

Reference:

- Canadian centre for occupational health and safety
- Patty's industrial hygiene and toxicology
- Firestone synthetic rubber and latex company U.S.A.
- B.S.L. Germany
- Applicable own physical and chemical, toxicity and ecotoxicity research studies.
- Material Safety Data Sheets & CHEMI NFO; CCOHS.

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