 LANXESS Energizing Chemistry	MSDS BUNA SE 1502 L	Number: MSDS-ING-TR-033 Date: 14/04/2010 Review: 1 Issue: Elcio Motta Approval: Joao Ribeiro
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History of Updates

Review	Date	Location	Modification
1	14/04/2010	Section III	Substituído o termo "preparation" por "mixture".
0	07/01/2010	Geral	Emissão Inicial

SECTION I – IDENTIFICATION

PRODUCT NAME :	Buna SE 1502 L
PRODUCT IDENTIFICATION:	Butadiene Styrene Copolymer produced by cold emulsion polymerization, using a mixture of fatty and resinous soaps with an emulsifying agent and an antioxidant non-staining agent, and coagulated in a salt-acid system. Note:
USE OF THE PRODUCT:	All specifications are free from Nitrosamines and nitrosable substances. Tires; retread; footwear; hoses; conveyor belts; surgical goods; molded, calandered or extruded rubber goods; autoparts and others.
COMPANY :	LANXESS Elastômeros do Brasil S.A.
ADRESS:	Via de Contorno, 920, Complexo Básico, Pólo Petroquímico, Triunfo – RS. CEP 95.853-000 - BRAZIL
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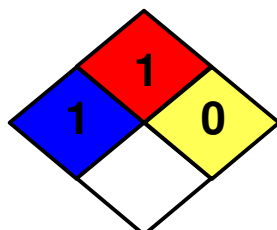
SECTION II – HAZARDS IDENTIFICATION

HAZARDS:

This material is not hazardous.

NFPA 704 HAZARD SIGNAL

Health
Flammability
Reactivity
Special



4 - Extreme
3 - High
2 - Moderate
1 - Slight
0 - Insignificant

W – Reactivity with water
OX – Oxidizer
ACID – Acid
ALK – Alkaline
COR – Corrosive

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	(%)	Nº CAS	Nº EINECS	CLASSIFICATION
Styrene-Butadiene Copolymers	100%	9003-55-8	NC	NC

SUBSTANCE/MIXTURE:

Substance.

CHEMICAL FAMILY:

Synthetic elastomer.

SECTION IV – FIRST AID MEASURES

EYE CONTACT:	The product is an inert solid. Should a particle enter the eye, remove it carefully and wash with running water. Seek medical attention if irritation persists.
SKIN CONTACT:	No hazard in normal use industrial at ambient temperature. If in contact with the product while hot, wash affected parts with cold water and soap. Seek medical attention if irritation persists.
INHALATION:	NA.
INGESTION:	NA.

SECTION V – FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Small-scale fires: Water spray, foam, dry chemical powder, and CO₂.
Large-scale fires: Water spray and foam.

EXTINGUISHING MEDIA WHICH MUST NOT BE USED: NA.

COMBUSTION PRODUCTS RESULTING GASES: Polymers decompose when they burn. The smoke may contain polymer fragments, toxic compounds and irritants. The dangerous products of combustion may include, but are not limited to carbon monoxide and dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Remove all personnel and inflammable materials from the place of the fire. If possible, fight the fire from an upwind position. Keep all equipment that is exposed to the flames water-cooled.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: Wear positive-pressure self-contained breathing apparatus and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). If protective equipment is not available or not used, fight fire from a protected location or a safe distance.

SECTION VI – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: See section VIII for information.

ENVIRONMENTAL PRECAUTIONS: NA.

METHODS FOR CLEANING UP: Collect spilled material and place it in suitable packaging for recycling or final disposal, according to local environmental legislation.

SECTION VII – HANDLING AND STORAGE

HANDLING:	Make sure that an ergonomically correct posture is adopted when handling the bales of product. Avoid prolonged contact with the skin.
STORAGE:	Store in a cool, dry place, away from direct sunlight. No special ventilation conditions are required during storage.
PRECAUTIONS:	Keep the product away from sources of sparks. Storage in fire-protected places, if possible by automatic protection (automatic sprinklers) is recommended.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT VALUES:	TWA: NC (ACGIH (TLV) [USA]) TWA: NC (OSHA (PEL) [USA]) IDLH: NC (NIOSH [USA])
RESPIRATORY PROTECTION:	NA. The product is not volatile.
HAND PROTECTION:	When handling the product while hot, wear heavy duty leather gloves or PVC gloves.
EYE PROTECTION:	When working with particulate materials, wear protection goggles against impact.
ENVIRONMENTAL EXPOSURE CONTROLS:	Wash hands and exposed parts of the skin, which have come into contact with the product, before eating, drinking or smoking, and after work.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES
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PHYSICAL STATE:	Solid.
APPEARANCE:	Buna SE 1502 L – Pale yellow to white.
ODOUR:	Characteristic.
MOLECULAR WEIGHT:	ND.
BOILING POINT:	NA.
MELTING POINT:	NA.
FLASH POINT:	ND.
AUTOIGNITION TEMPERATURE:	320°C.
EXPLOSIVE LIMIT:	
LOWER:	ND.
UPPER:	ND.
VAPOR PRESSURE (mm Hg):	NA.
RELATIVE DENSITY (water =1):	0,94 @ 20°C.
WATER SOLUBILITY at 20°C:	Insoluble.
SOLUBILITY:	Soluble in aromatics, alifatics solvents and chlorinated hydrocarbons.
VISCOSITY:	NA.
VOC CONTENT VOLATILES:	ND.

SECTION X – STABILITY AND REACTIVITY

STABILITY:	Stable.
HAZARDOUS POLYMERIZATION:	Will not occur.
CONDITIONS TO AVOID:	High temperatures and oxidizing materials.
MATERIALS TO AVOID:	Strong basis and strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS:	Polymers decompose when they burn. The smoke may contain polymer fragments, toxic compounds and irritants. The dangerous products of combustion may include, but are not limited to carbon monoxide and dioxide.

SECTION XI – TOXICOLOGICAL INFORMATION

EYE CONTACT:	May cause irritation or harm to the cornea as a result of mechanical action. During processes carried out under hot conditions, contact with smoke or vapor may cause irritation.
SKIN CONTACT:	It is, essentially, not a skin irritant. Diminish product contact with the skin. Contact with the product while hot can cause local irritation.
INGESTION:	Considered to have extremely low toxicity.
INHALATION:	Minimal release of vapors. Exposure to smoke or vapor during processes carried out under hot conditions may cause respiratory irritation.
CHRONIC EFFECTS ON HUMANS	NC.

SECTION XII – ECOLOGICAL INFORMATION

ECOTOXICITY:	High toxicity is not expected.
MOVEMENT & PARTITIONING:	The material is expected to float in aqueous media. Residues are expected to remain in the soil.
OTHER ADVERSE EFFECTS:	NA.

SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Place product in suitable packages for proper recycling or disposal. Consult a specialist in residue disposal in order to adequately dispose of the material in agreement with local regulations.

SECTION XIV – TRANSPORT INFORMATION

LAND TRANSPORT (DOT): Not Regulated.

SEA TRANSPORTN (IMDG): Not Regulated.

AIR TRANSPORT (ICAO/IATA): Not Regulated.

IDENTIFICATION NUMBER (UN/NA): Not Regulated.

TYPE: Not dangerous product.

SECTION XV – REGULATORY INFORMATION

TSCA STATUS: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

DSL – CANADA: Included on Inventory.

ENCS – JAPAN: Included on Inventory.

ECL – KOREA: Included on Inventory.

AICS – AUSTRALIA: Included on Inventory.

PICCS – PHILIPPINES: Included on Inventory.

CECS – CHINA: Included on Inventory.

PAC - ASIA: Included on Inventory.

SECTION XVI – OTHER INFORMATION

ABBREVIATIONS:

NA: not applicable

NC.: not classified

ND: not available

ACGIH: American Conference of Governmental Industrial Hygienists.

CAS: Chemical Abstract Service.

LC50: The concentration in air that causes death in 50% of the animals exposed.

LD50: The dose that causes death in 50% of the animals exposed.

mg/m³: Milligrams of substance per cubic meter of air; method of expressing the concentration of a substance in air.

NFPA: National Fire Protection Association.

NIOSH: National Institute for Occupational Safety and Health.

OSHA: Occupational Safety and Health Administration.

PEL: Permissible Exposure Limits.

TLV: Threshold Limit Value.

TWA: Time Weighted Average.

STEL: Short Term Exposure Limit

IDLH: Immediately Dangerous to Life and Health

MSDS: Material Safety Data Sheet

REFERENCE:

1. Safety Data Sheet Directive, according to REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL, of 18 December 2006, article 31, Requirements for Safety Data Sheets and ANNEX II, GUIDE TO THE COMPILATION OF SAFETY DATA SHEETS.

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