LANXESS Energizing Chemistry	**MSDS BUNA CB ND40 H**	Number: MSDS-ING-CB-038 Date: 10/02/2010 Review: 0 Issue: Monica Regina Approval:Joao Ribeiro

History of Updates

Review	Date	Location	Modification
0	10/02/2010	Geral	Emissão Inicial

SECTION I – IDENTIFICATION

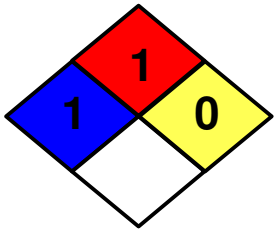
PRODUCT NAME:	**Buna CB Nd40 H**
PRODUCT IDENTIFICATION:	Buna CB Nd is a butadiene polymer, produced by solution polymerization using a catalyst of neodymium. The polymer has a minimum of 96.0 % of cis bonds. It is light-colored product and use non-staining antioxidant.
USE OF THE PRODUCT:	Buna CB Nd is mainly used in tire applications – sidewalls, treads and retreads. Furthermore, it is used in automotive and technical goods, conveyor and transmission belts, toys, footwear, golf balls and so on.The main characteristic is related to its excellent abrasion and fatigue resistance, low rolling resistance, high resilience, tack and green strength.
COMPANY:	**LANXESS Elastômeros do Brasil S.A.**
ADRESS:	BR 101, Km 99, Cabo de Santo Agostinho, PE - Brazil
TELEPHONE:	(55) 81 2119-7300
EMERGENCY TELEPHONE NUMBER:	**0800 727 2287**
FAX:	(55) 81 2119-7473
EMAIL:	**msds-lxseb@lanxess.com**

SECTION II – HAZARDS IDENTIFICATION

HAZARDS: This product is not a hazardous chemical.

NFPA 704 HAZARD SIGNAL

Health - 1
Flammability - 1
Reactivity - 0
Special - NA



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

$\overline{W}$ – Reactivity with water
OX – Propriedades Oxidantes
ACID – Oxidizer
ALK – Alkaline
COR - Corrosive

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	(%)	Nº CAS	Nº EINECS	CLASSIFICATION
Synthetic elastomer	99%	9003-17-2	NC	NC
tris(nonylphenyl) phosphite	0,70%	26523-78-4	247-759-6	N-R50/53

SUBSTANCE/PREPARATION: Substance
CHEMICAL FAMILY: Synthetic elastomer

SECTION IV – FIRST AID MEASURES

EYE CONTACT: This product is an inert solid. If in eye, remove as one would any foreign object.

SKIN CONTACT: No hazard in normal use industrial at ambient temperature. For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat.

INHALATION: NA

INGESTION: NA

SECTION V – FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Foam or water spray, CO2, dry chemical, water.
EXTINGUISHING MEDIA WHICH MUST NOT BE USED:	Water in a jet may disperse fire.
COMBUSTION PRODUCTS RESULTING GASES:	Under fire conditions polymers decompose. The smoke may contain polymer fragments of varying compositions in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to Carbon monoxide. Carbon dioxide.
SPECIAL FIRE FIGHTING PROCEDURES:	Move all the combustible material away from place of fire. Fight the fire downwind and always under a safe distance from fire. Keep chilled with water the equipments under flames.
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:	EYES: wear safety glasses. SKIN: where contact may occur with hot material, wear thermal resistant gloves.
ENVIRONMENTAL PRECAUTIONS:	LEAKAGE AND SPILLAGE: Recover in container for disposal. TREATMENT AND FINAL DISPOSAL: According to applied local environment laws. ENVIRONMENTAL IMPACTS: Water and soil contamination.
METHODS FOR CLEANING UP:	Transfer to a labeled, salable container for product recovery or safe disposal as required by local, state, federal, international or country specific regulations.

SECTION VII – HANDLING AND STORAGE

HANDLING:	Temperature Ambient
STORAGE:	Temperature Ambient
PRECAUTIONS:	To be stored dry and away from all sources of heat and light.

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:	Not required
HAND PROTECTION:	Where contact may occur with hot material, wear thermal resistant gloves.
EYE PROTECTION:	Wear safety glasses.
ENVIRONMENTAL EXPOSURE CONTROLS:	DISPOSAL: Place in suitable containers for recycle or disposal. Consult an expert on disposal of recovery material and ensure conformity to local disposal regulations.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Solid
APPEARANCE:	Light-colored bales
ODOUR:	Rubber-like
MOLECULAR WEIGHT:	ND
pH:	Not Applicable
BOILING POINT:	Not Applicable
MELTING POINT:	Not Applicable
FLASH POINT:	Not Applicable
AUTOIGNITION TEMPERATURE:	Not determined
EXPLOSIVE LIMIT:	
LOWER	Not Applicable
UPPER	Not Applicable
VAPOR PRESSURE (mm Hg):	Negligible
RELATIVE DENSITY (water =1):	0,89
WATER SOLUBILITY at 20°C:	Insoluble
SOLUBILITY:	Soluble in aromatics, aliphatic solvents and chlorinated hydrocarbons
VOLATILES (% BY VOLUME):	0,75 (water)
VISCOSITY:	NA
VOC CONTENT VOLATILES:	Negligible

SECTION X – STABILITY AND REACTIVITY

STABILITY:	Stable
HAZARDOUS POLYMERIZATION:	Will not occur
CONDITIONS TO AVOID:	Oxidizing conditions, extreme temperatures
MATERIALS TO AVOID:	Strong oxidizers, strong acids
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of carbon under burning conditions

SECTION XI – TOXICOLOGICAL INFORMATION

EYE CONTACT:	May cause irritation or corneal injury due to mechanical action. Vapors/fumes released during thermal processing may cause eye irritation.
SKIN CONTACT:	Essentially non-irritating to skin. Skin absorption is unlikely due to physical properties.
INGESTION:	Single dose oral toxicity is considered to be extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling operations. Single dose oral LD50 has not been determined.
INHALATION:	At room temperature, vapors are minimal due to physical properties. Vapors/fumes released during thermal processing may cause respiratory irritation.
CHRONIC EFFECTS ON HUMANS:	No chronic hazards have been observed.

SECTION XII – ECOLOGICAL INFORMATION

ECOTOXICITY:	Based largely or completely on information for similar material(s): Material is practically non-toxic to aquatic organisms on an acute basis (LC50 or EC50 >100 mg/L in the most sensitive species tested).
DEGRADATION & PERSISTENCE:	Photodegradation occurs with product exposure to sunlight.
MOVEMENT & PARTITIONING:	No bioconcentration of the polymeric component is expected because of its high molecular weight.
BIOACCUMULATION:	There is not bioacumulation expectation according to high molecular weight. In terrestrial environment is expected that the material remains in teh soil.
OTHER ADVERSE EFFECTS:	ND

SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:	Follow all federal, state and local regulations. Recondition or dispose of empty container in accordance with governmental 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 dangerous product
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

RISK PHRASES:

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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/m^3: 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.