SAFETY DATA SHEET

BUNA CB 45B

LANXESS Energizing Chemistry

56625597

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

Identification of the substance or mixture

Product name	:	BUNA CB 45B
Use of the substance/mixture	:	crude product for the production of tires
Supplier/Manufacturer	:	LANXESS Deutschland GmbH, Industrial & Environmental Affairs 51369 Leverkusen, Germany, Telephone: +49 214 30 65109 E-mail: infosds@lanxess.com
Emergency telephone number	:	+49 214 30 99300 (Sicherheitszentrale CHEMPARK Leverkusen)

2. HAZARDS IDENTIFICATION

The product is not classified as dangerous according to Directive 67/548/EEC and its amendments.

Classification : Not classified.

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product definition (REACH) : Polymer

Butadiene rubber (BR); CAS No.: 9003-17-2

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU or national regulations.

4. FIRST AID MEASURES

First-aid measures

Skin contact	:	Get medical attention if irritation develops.
Eye contact	:	Get medical attention if irritation occurs.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable	:	In case of fire, use water spray (fog), foam, dry chemical or CO_2.
Not suitable	:	None known.
Special exposure hazards	:	No specific fire or explosion hazard. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : No special measures required.

Environmental precautions : No special measures required.

Large spill : Take up mechanically.

Small spill : Take up mechanically.

7. HANDLING AND STORAGE

Handling : Provided good ventilation and/or local exhaust systems are used, the Occupational Exposure Limit(s) stated in Chapter 8 should not be exceeded.

Avoid inhaling vapours. Avoid inhaling dust. Grease skin. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. When using do not eat, drink or smoke.

Storage : Do not store above the following temperature: 40°C (104°F). Store in a dry place.

Packaging materials

Recommended : Use original container.

Remarks : Keep away from direct sunlight or strong incandescent light. Protect from moisture.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The regulations for the substances listed below must be observed when processing this product, particularly if processing takes place at elevated temperatures. In our experience the provision of effective fresh-air and exhaust ventilation equipment at the points where vapors may be generated will ensure compliance with the tolerance limits quoted below.

Exposure limit values : Not available.

1,3-butadiene:
No workplace limit value(OEL) fixed. Additional protective measures must be complied with, in particular:
- Measurements for the early detection of increased exposure as a result of an unforeseen incident;
- Cordoning off of the hazardous areas and display of warning and hazard signs, including a sign saying "Smoking prohibited", in areas where exposure is possible;
- Extracted air must not be returned to the system without being treated first.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Risk management measures

Occupational exposure controls

Technical measures : Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protection measures

Respiratory protection : In case of dust formation use respiratory equipment with filter type particle filter P1 according to DIN EN 143.

Hand protection : Protective gloves of leather, contaminated or damaged gloves should be replaced.
<1 hours (breakthrough time): Polyvinyl chloride - PVC

Eye protection : Protective goggles with side shield or tightly fitting protective goggles

Skin protection : Skin covering working clothes; wear dust-proof overalls if large quantities of dust are generated.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Environmental exposure controls

Technical measures : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

Physical state : Solid.

Colour : White to yellowish.

Odour : Characteristic.

Important health, safety and environmental information

Density : 0,94 kg/L (20 °C)

Solubility : Insoluble in the following materials: cold water

Auto-ignition temperature : 320°C (608°F)

10. STABILITY AND REACTIVITY

Stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Hazardous decomposition products : Caused by smouldering and incomplete combustion toxic fumes mainly consisting of CO and CO_2 may be developed. Degradation products of the polymers and their additives may also be formed.

11. TOXICOLOGICAL INFORMATION

Under the recommended processing conditions small amounts of emitted substance (e.g. residual monomers, residual solvents, decomposition products) may be discharged. According to our experience and information the product has no harmful effects on health if properly handled.

12. ECOLOGICAL INFORMATION

The product is practically insoluble in water. In view of its consistency and insolubility in water, no ecological problems are to be expected if the product is properly handled. This product is not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Methods of disposal : Where large quantities are concerned, consult the supplier. Examine possibilities for re-utilisation. For disposal within the EC, the appropriate code according to the European Waste List (EWL) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste List (EWL).

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

14. TRANSPORT INFORMATION

Regulation	UN number	Proper shipping name	Class	PG	Label	Additional information
ADR/RID	-	-	-	-	-	Not regulated.
GGVSE	-	-	-	-	-	Not regulated.
ADNR	-	-	-	-	-	Not regulated.
IMDG	-	-	-	-	-	Not regulated.
IATA	-	-	-	-	-	Not regulated.

PG: Packing group

Not dangerous cargo.
Avoid heat above +35 °C.
Keep dry.
Keep separated from foodstuffs.

15. REGULATORY INFORMATION

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Industrial applications.

Risk phrases : This product is not classified according to EU legislation.

Safety phrases : Not applicable.

16. OTHER INFORMATION

History

Date of printing : **2010-07-20**

Date of issue : **2010-07-20**

Date of previous issue : **2009-09-03**

Version : **2**

Indicates information that has changed from previously issued version.

Notice to reader

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance.