

Material Safety Data Sheet

1. Product and company identification

Product name : LANXESS Butyl 101-3

Supplier/Manufacturer : LANXESS Corporation
Product Safety & Regulatory Affairs
111 RIDC Park West Drive
Pittsburgh, PA 15275-1112
USA

For information: US/Canada (800) LANXESS
International +1 412 809 1000

In case of emergency : Chemtrec (800) 424-9300
International (703) 527-3887
Lanxess Emergency Phone (800) 410-3063.

Material Number : 04865170

Chemical family : Butyl (IIR) Rubber

2. Hazards identification

Physical state : Solid. [rubber bales]

Odor : Odorless.

Color : Colorless to light yellow.

Emergency overview : CAUTION!

NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. MAY CAUSE MECHANICAL IRRITATION (ABRASION). TOXIC AND IRRITATING GASES/FUMES MAY BE GIVEN OFF DURING BURNING OR THERMAL DECOMPOSITION. CONTACT WITH HOT MATERIAL WILL CAUSE THERMAL BURNS.

Medical conditions aggravated by over-exposure : None known.

Potential acute health effects / Over-exposure signs/symptoms

Inhalation : Inhalation is unlikely due to the low vapor pressure. May cause mechanical irritation (abrasion).

Ingestion : No known significant effects or critical hazards.

Skin : May cause mechanical irritation (abrasion). Contact with hot material will cause thermal burns.

Eyes : May cause mechanical irritation (abrasion).

Potential chronic health effects

Chronic effects : No known significant effects or critical hazards.

Carcinogenicity : No carcinogenic substances as defined by IARC, NTP and/or OSHA.

3. Composition/information on ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

<u>Name</u>	<u>CAS number</u>	<u>%</u>
No hazardous ingredient		

Other Ingredients:

The following potentially hazardous ingredient(s) are contained at levels below disclosure requirements and are provided for informational purposes only.

The concentrations reported below in units of parts per million (ppm) or parts per billion (ppb) are maximum values.

Isoprene CAS# 78-79-5 10ppm

Isobutene CAS# 115-11-7 10ppm

4. First aid measures

Eye contact	: Check for and remove any contact lenses. In case of contact flush eyes with plenty of lukewarm water. Get medical attention if symptoms occur.
Skin contact	: Wash with plenty of soap and water. Get medical attention if symptoms occur. Get medical attention if thermal burns occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Notes to physician	: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Extinguishing media

Suitable	: In case of fire, use water spray (fog), foam or dry chemical.
Not suitable	: Carbon dioxide (CO ₂).
Special exposure hazards	: Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
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 action shall be taken involving any personal risk or without suitable training.
Spill and Leak Procedures.	: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. If molten, allow material to cool and put into an appropriate container for disposal.

7. Handling and storage

- Handling** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
- Storage temperature:** : Do not store above the following temperature: 35°C

8. Exposure controls/personal protection

Isoprene (78-79-5)

U.S. Workplace Environmental Exposure Level (WEEL) Guides
Time Weighted Average (TWA): 2 ppm, 5.6 mg/m³

Isobutene (115-11-7)

U.S. ACGIH Threshold Limit Values

Hazard Designation: Group A4 Not classifiable as a human carcinogen

Consult local authorities for acceptable exposure limits.

- 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.
- Engineering measures** : Engineering controls should be sufficient to ensure airborne levels do not approach or exceed the exposure limit value for residuals. Thermal processing operations should be ventilated to control gases and fumes given off during processing.
- 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.

Personal protection

- Respiratory** : Although no exposure limit has been established for this product, the OSHA PEL for Particulates Not Otherwise Regulated (PNOR) of 15 mg/m³ - total dust, 5 mg/m³ - respirable fraction is recommended. In addition, the ACGIH recommends 3 mg/m³ - respirable particles and 10 mg/m³ - inhalable particles for Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS). The following respirator is recommended if airborne concentrations exceed the appropriate standard/guideline. NIOSH approved, air-purifying particulate respirator with N-95 filters.
- Hands** : When handling hot material, wear heat-resistant protective gloves that are able to withstand the temperature of molten product.
- Eyes** : safety glasses with side-shields
- Skin** : Gloves, long sleeved shirts and pants.

9. Physical and chemical properties

Physical state	: Solid. [rubber bales]
Flash point	: Closed cup: >300°C (>572°F) Open cup: >300°C (>572°F) [Cleveland (ASTM D-92)]
Color	: Colorless to light yellow.
Odor	: Odorless.
Density	: 0.92 g/cm ³
Solubility	: Insoluble in the following materials: cold water.

10. Stability and reactivity

Chemical stability	: The product is stable.
Conditions to avoid	: Keep away from heat and direct sunlight.
Materials to avoid	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	: Exposure to high temperatures causes exothermic reaction or decomposition.

11. Toxicological information

No information available.

OSHA

12. Ecological information

Aquatic ecotoxicity

No information available.

13. Disposal considerations

Waste disposal	: Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls. The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.
Empty Container Precautions.	: Recondition or dispose of empty container in accordance with governmental regulations.
RCRA classification	: : Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product, should be classified as a hazardous waste. (40 CFR 261.20-24)

14. Transport information

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	-	-	-	-		Not regulated.
IMDG Class	-	-	-	-		Not regulated.
IATA-DGR Class	-	-	-	-		Not regulated.

PG* : Packing group

RQ : 0 lbs

15. Regulatory information

HAZCOM Standard Status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

SARA Section 311/312 Hazard Categories : None

<u>Ingredient name</u>	<u>CAS number</u>	<u>Concentration (%)</u>
------------------------	-------------------	--------------------------

SARA Title III Section 302 Extremely Hazardous Substances : None

<u>Ingredient name</u>	<u>CAS number</u>	<u>Concentration (%)</u>
------------------------	-------------------	--------------------------

SARA Title III Section 313 Toxic Chemicals : None

<u>Ingredient name</u>	<u>CAS number</u>	<u>RQ</u>
------------------------	-------------------	-----------

US EPA CERCLA Hazardous Substances (40 CFR 303) : None

State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

The concentrations reported below are maximum values.

<u>Ingredient name</u>	<u>CAS number</u>	<u>State Code</u>	<u>Concentration (%)</u>
Butyl Rubber	9010-85-9		60 - 100
Fatty acids, C14-18 and C16-18-unsatd., calcium salts	68424-16-8		0.1 - 1

Massachusetts Substances: MA - S

Massachusetts Extraordinary Hazardous Substances: MA - Extra HS

New Jersey Hazardous Substances: NJ - HS

New Jersey Special Hazardous Substances: NJ - Special HS

Pennsylvania RTK Hazardous Substances: PA - RTK HS

Pennsylvania Special Hazardous Substances: PA - Special HS

California Prop. 65

<u>Ingredient name</u>	<u>CAS #</u>	<u>Concentration (%)</u>	<u>Cancer</u>	<u>Reproductive</u>
------------------------	--------------	--------------------------	---------------	---------------------

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

15. Regulatory information

U.S. Toxic Substances Control Act : This product is excluded from TSCA regulation by Section 3 (2)(B)(vi) when used for FDA application.

16. Other information

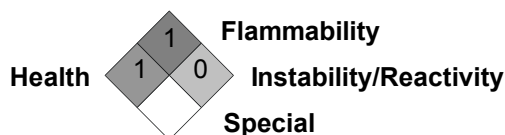
Hazardous Material Information System

Health	0
Flammability	1
Physical hazards	0

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme
*=Chronic

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.) :



0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

LANXESS' method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS as a customer service.

Contact person : Product Safety and Regulatory Affairs

Date of issue : 07-23-2010

Date of previous issue : 23.07.2010.

Version : 1

▣ Indicates information that has changed from previously issued version.

Notice to reader

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of LANXESS Corporation. The information in this MSDS relates only to the specific material designated herein. LANXESS Corporation. assumes no legal responsibility for use of or reliance upon the information in this MSDS.