

In accordance with Globally Harmonized System of
Classification and Labelling of Chemicals (GHS)-
Chapter 1.5 and Annex 4

SAFETY DATA SHEET

Product: BLACK RUBBER SEAL

Revision: 05

Date: 08/02/2021

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1 - IDENTIFICATION

GHS Product identifier:	BLACK RUBBER SEAL
Other means of identification:	000072-00
Recommended use of the chemical:	Used as a painting complement.
Restrictions on use:	There are not known restrictions on use of the product.
Supplier's details:	ANJO QUIMICA DO BRASIL LTDA
Address:	Acesso Estadual Rio Maina, nº 1165, Bairro Vila Macarini CEP: 88818-800, Criciúma - SC - BR
Phone number(s):	(48) 34618000 (48) 34618049
Emergency phone number:	CIATox/SC (Centro de Informação e Assistência Toxicológica de Santa Catarina) 08006435252

2 - HAZARD IDENTIFICATION

Classification of the substance or mixture:	Skin Sensitization - Category 1 Reproductive Toxicity - Category 1B
Classification system adopted:	Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.

GHS label elements, including precautionary statements

Pictograms:



Signal word: DANGER

Hazard statement(s): H317 May cause an allergic skin reaction.
H360 May damage fertility or the unborn child.

Precautionary statement(s): **PREVENTION:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

RESPONSE TO EMERGENCY:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P308 + P313 IF exposed or concerned: If skin irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

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P362 + P364 Take off contaminated clothing. And wash it before reuse.

STORAGE:

P405 Store locked up.

DISPOSITION:

P501 Dispose of contents and container in accordance with local regulations.

Other hazards which do not result in classification: It is not expected that product presents specific hazards.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE

Components contributing to the hazard:	Dibutyl phthalate (CAS 84-74-2): 0.50 - 1.50 %; 2-butoxyethanol (CAS 111-76-2): 0.30 - 0.90 % ¹ ; Black smoke (CAS 1333-86-4): 0.15 - 0.45 % ² ; Diuron (CAS 330-54-1): 0.01 - 0.04 % ¹ ; Triethanolamine 85% (CAS 102-71-6): 0.008 - 0.03 % ¹ ; Morpholine (CAS 110-91-8): 0.008 - 0.03 % ¹ ; Formaldehyde (CAS 50-00-0): 0.007 - 0.02 % ¹ ; Butyl acrylate (CAS 141-32-2): 0.006 - 0.02 % ¹ ; Silicic acid (CAS 100-42-5): 0.006 - 0.02 % ¹ .
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¹The ingredient does not contribute to the hazard but has an established occupational exposure limit, according to section 8.

²Ingredient not classified as hazardous by the Classification System used, but has an established occupational exposure limit, according to section 8.

4 - FIRST-AID MEASURES

Routes of exposure

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.

Skin: Wash exposed skin with sufficient amount of water to remove the material. Take off and isolate contaminated clothing and shoes. In case of skin irritation: contact a doctor. Bring this SDS.

Eye: Wash carefully with water for several minutes. In case of use of contact lenses, remove them, if possible. Keep washing. If eyes irritation continues: Contact a doctor. Bring this SDS.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse the victims mouth with water in abundance. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.

Most important symptoms/effects, acute and delayed: May cause an allergic skin reaction with pruritus and dermatitis.

Indication of immediate medical Avoid contact with the product to help the victim. Keep victim warm and quiet. Symptomatic treatment should comprise mainly supportive measures such as

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attention and special treatment needed, if necessary: correction of electrolyte disturbances, metabolic, and respiratory support. In case of skin contact do not rub the affected area.

5 - FIRE-FIGHTING MEASURES

Extinguishing Media: Appropriate: carbon dioxide (CO₂), foam, water mist and powder.
Inappropriate: water directly onto the burning product and water jet directly.

Specific hazards arising from the chemical: The combustion or the chemical containers may form toxic and irritant gases such as carbon monoxide and carbon dioxide.
Dangerous when exposed to excessive heat or other sources of ignition such as sparks, open flames or flames of matches and cigarettes, welding operations, pilot lights and electric motors. Can accumulate static charge by flow or agitation. Vapors from heated liquid can be ignited by static discharge. Vapors are heavier than air and tend to accumulate in low or confined areas, such as sewers and basements. Can travel great distances causing retrogression of the flame or new fires both in open environments in as confined ones. Containers may explode if heated.

Special protective actions for fire-fighters: Use self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing. Containers and tanks involved in the fire should be cooled with water mist.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled material without the use of appropriate clothing. Avoid exposure to the product. Stay in a safe place, with wind from behind. Use personal protective equipment as described in Section 8.

For emergency service personnel: Wear complete PPE with safety glasses, safety gloves, suitable protective clothing and closed shoes. In case of leakage, where exposure is high, it is recommended to use a suitable respiratory protection mask.

Environmental precautions: Avoid that the spilled material reaches waterways or sewage system.

Method and materials for containment and cleaning up: Use water mist or vapor suppressing foam to reduce the dispersion of vapors. Use natural barriers or spill containment. Collect spilled material and put it into containers. Adsorb the remaining product with dried sand, vermiculite or any other inert material. Put the adsorbed material in appropriate containers and remove them to a safe place. Use tools that do not cause sparks to collect absorbed material. For final destination, proceed pursuant to Section 13 of this SDS.

7 - HANDLING AND STORAGE

Precautions for safe handling

Safe handling of the substance or mixture: Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid vapors and mists formation. Avoid exposure to the chemical, since the effects may not be felt immediately.

General hygiene: Wash hands and face thoroughly after handling and before eating, drinking, smoking or going to the bathroom. Contaminated clothing should be changed and washed before

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reuse. Remove clothing and protective equipment contaminated before entering eating areas.

Conditions for safe storage, including any incompatibilities

Technical measures for prevention of fire and explosion: Keep away from heat, sparks, open flames and hot surfaces. - Do not smoke. Keep container tightly closed. Ground the container vessel and the receiver of the product during transfers. Only use anti-sparking tools. Avoid the accumulation of electrostatic charges. Use electrical equipment, ventilation and lighting explosion proof. Use personal protective equipment as described in Section 8.

Adequate conditions: Store in a well ventilated place, away from sunlight. Keep container closed. Keep away from high temperatures and ignition sources. Keep stored at room temperature not exceeding 35°C (95°F).

Packaging compatibilities: Similar to the original packaging.

Inadequate packaging materials: There are not known unsuitable material of the product.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limit: The values below apply to workplaces.

- Butyl acrylate:

ACGIH - TLV - TWA: 2 ppm.

- Silicic acid:

OSHA - PEL - TWA: (Z2);

NIOSH - REL - TWA: 215 mg/m³; 50 ppm;

NIOSH - REL - STEL: 425 mg/m³; 100 ppm;

ACGIH - TLV - TWA: 10 ppm;

ACGIH - TLV - STEL: 20 ppm.

- Formaldehyde:

OSHA - PEL - TWA: (CFR2);

NIOSH - REL - TWA: 0.016 ppm (Ca); (AA);

NIOSH - REL - Ceiling: 0.1 ppm [15-min];

ACGIH - TLV - TWA: 0.1 ppm;

ACGIH - TLV - STEL: 0.3 ppm.

- Triethanolamine 85%:

ACGIH - TLV - TWA: 5 mg/m³.

- Morpholine:

OSHA - PEL - TWA: 20 ppm; 70 mg/m³;

NIOSH - REL - TWA: 20 ppm;

NIOSH - REL - STEL: 30 ppm;

ACGIH - TLV - TWA: 20 ppm.

- Diuron:

ACGIH - TLV - TWA: 10 mg/m³.

- Black smoke:

OSHA - PEL - TWA: 3.5 mg/m³;

NIOSH - REL - TWA: 3.5 mg/m³ (CB); (AA); (AC);

ACGIH - TLV - TWA: 3 mg/m³ (I).

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- 2-butoxyethanol:
OSHA - PEL - TWA: 50 ppm; 240 mg/m³;
NIOSH - REL - TWA: 5 ppm;
ACGIH - TLV - TWA: 20 ppm.
- Dibutyl phthalate:
OSHA - PEL - TWA: 5 mg/m³;
NIOSH - REL - TWA: 5 mg/m³;
ACGIH - TLV - TWA: 5 mg/m³.

Z2: See NIOSH REL Annotated Z-2;
Ca: Potential occupational carcinogen.
AA: See NIOSH REL Appendix A;
CFR2: See CFR 1910.1048.
I: Inhalable particulate matter;
CB: without PAHs; when PAHs are present, NIOSH considers carbon black to be a potential occupational carcinogen.
AC: See NIOSH REL Appendix C.

Biological limit:

- Silicic acid:
ACGIH - BEI: Determinant: Mandelic acid plus phenylglyoxylic acid in urine. Sampling Time: End of shift. Index: 400.00 mg/g creatinine. Ns; Determinant: Styrene in urine. Sampling Time: End of shift. Index: 40.00 µg/L.
- 2-butoxyethanol:
ACGIH - BEI: Determinant: Butoxyacetic acid (BAA) in urine. Sampling Time: End of shift. Index: 200.00 mg/g creatine.

Ns: The determinant is nonspecific, since it is also observed after exposure to other chemicals.

Other limits and values:

- 2-butoxyethanol:
IDLH (NIOSH - 2010): 700 ppm.

Appropriate engineering controls: Provide mechanical ventilation and direct exhaust system to the outside environment. These measures help reduce the exposure to the product. Maintain atmospheric concentrations, of the constituents of the product, below the indicated occupational exposure limits. Maintain atmospheric concentrations of the constituents of the product below occupational exposure limits indicated.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection: Safety glasses.

Skin protection: Closed shoes and suitable protective clothing. Appropriate protective gloves.

Respiratory protection: A risk assessment should be performed for proper definition of respiratory protection, in view of the product use conditions.

Thermal hazards: Does not present thermal hazards.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Aspect: Liquid.

Color: Not available.

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Odour:	Not available.	
Melting point/freezing point:	Not available.	
Boiling point or initial boiling point and boiling range:	Not available.	
Flammability:	Not available.	
Lower and upper explosion limit/flammability limit:	Not available.	
Flash point:	Not available.	
Auto-ignition temperature:	Not available.	
Decomposition temperature:	Not available.	
pH:	9 to 9.5.	
Kinematic viscosity:	Not available.	
Solubility:	Water immiscible.	
Partition coefficient n-octanol/water (log value):	Not available.	
Vapour pressure:	Not available.	
Relative vapour density:	Not available.	
Density and/or relative density:	Not available.	
Particle characteristics:	Not applicable.	
Other information:	Absolute density: 1.35 to 1.4 g/cm ³ .	

10 - STABILITY AND REACTIVITY

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure
Stability:	Product is stable under normal conditions of temperature and pressure.
Possibility of hazardous reactions:	Styrene: Polymerize exothermically and under confinement may cause explosion. Butyl acrylate: Reacts violently on contact with strong oxidants with risk of fire and explosion. 2-butoxyethanol: Can react dangerously with aluminum and oxidizing agents. Can form peroxides in contact with air. Morpholine: Risk of explosion in contact with nitromethane. Triethanolamine: May react dangerously with oxidizing agents, reducing agents, acids, halogenated compounds, metal hydrides and nitriles. Formaldehyde: The product vapors may form an explosive mixture in contact with air. Dangerously reacts with hydrochloric acid, magnesium carbonate, sodium hydroxide,

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perchloric acid and aniline. Polymerization risk with oxidizing agents and alkalis. Potentially explosive nitromethane, nitrogen dioxide, hydrogen peroxide, nitric acid and phenol. Sodium nitrite: Risk of explosion on contact with strong reducing agents and combustible materials.

Conditions to avoid: Elevated temperatures. Sources of ignition. Contact with incompatible materials.

Incompatible material: Acetone, Acids, Alkali, Aniline, Cellulose nitrate, Compounds with high affinity for hydroxyl groups, Fluorine, Halogen compounds, Hydrochloric acid, Magnesium carbonate, Metallic hydride, Nitric acid, Nitriles, Nitrogen dioxide, Nitromethane, Perchloric acid, Phenol, Potassium nitrate and Reducing Agents.

Hazardous decomposition products: There are not known hazardous decomposition products.

11 - TOXICOLOGICAL INFORMATION

Acute toxicity: Product not classified as acute toxic.
ATEmix (Oral): > 5000 mg/kg.
ATEmix (Dermic): > 5000 mg/kg.
ATEmix (Inhalation of vapors, 4h): > 20 mg/L.

Skin corrosion/irritation: It is not expected that the product causes skin irritation.

Serious eye damage/irritation: It is not expected that the product causes eye irritation.

Respiratory or skin sensitization: May cause an allergic skin reaction with pruritus and dermatitis.
It is not expected that the product causes respiratory sensitization.

Germ cell mutagenicity: It is not expected that the product presents germ cell mutagenicity.

Carcinogenicity: It is not expected that the product presents carcinogenicity.

Reproductive toxicity: May damage fertility or the unborn child.

The ingredient 2-butoxyethanol, classified as reproductive toxicant - category 2, is in concentration < 3% and does not contribute to this classification of the product.

STOT - Single exposure: It is not expected that the product presents specific target organ toxicity by single exposure.

STOT - Repeated exposure: It is not expected that the product presents specific target organ toxicity by repeated exposure.

Aspiration Hazard: It is not expected that the product presents aspiration hazard.

12 - ECOLOGICAL INFORMATION

Toxicity: It is not expected that the product presents ecotoxicity.

Persistence and degradability: Due to the lack of data, it is expected that the product presents persistence and it is not considered readily biodegradable.

Bioaccumulative potential: Presents low bioaccumulative potential in aquatic organisms.

Mobility in soil: Not determined.

Other adverse: There are not known other environmental effects for this product.

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effects:

13 - DISPOSAL CONSIDERATIONS

Disposal methods

Must be disposed of as hazardous waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product.

Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.

14 - TRANSPORT INFORMATION

Road: UN - United Nations: Model Regulations:

- Recommendations on the Transport of Dangerous Goods.

Railway regulations: COTIF - Convention concerning International Carriage by Rail:

- Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

Sea: IMO - International Maritime Organization:

- IMDG Code - International Maritime Dangerous Goods Code.

Air: IATA - International Air Transport Association:

- DGR - Dangerous Goods Regulation.

UN Number: Not classified as hazardous to transport in different modals.

Special precautions for user: Not applicable

15 - REGULATORY INFORMATION

Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

16 - OTHER INFORMATION

This SDS was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other materials, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

Elaborated August 2021.

Change Control:

Version	Elaboration	Changes
05	08/02/2021	Change in composition. Change in section: 1, 2, 4, 5, 8, 9, 10, 11, 14 and 16.

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Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;
ATEmix - Acute Toxicity Estimate of the mixture;
BEI - Biological Exposure Index;
CAS - Chemical Abstracts Service;
Ceiling - The concentration that should not be exceeded during any part of the working exposure.
IARC - International Agency for Research on Cancer;
IDLH - Immediately Dangerous to Life or Health;
NIOSH - National Institute for Occupational Safety and Health;
OSHA - Occupational Safety & Health Administration;
PEL - Permissible Exposure Limit;
REL - Recommended Exposure Limit;
STEL - Short Term Exposure Limit;
TLV - Threshold Limit Value;
TWA - Time Weighted Average;
UN - United Nations.

Bibliographic references:

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 8th rev. ed.
New York: United Nations, 2019.

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based
on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents &
Biological Exposure Indices (BEIs®). Cincinnati-USA, 2020.

ECHA - EUROPEAN CHEMICAL AGENCY. Available at: < <http://echa.europa.eu/web/guest> >. Access in: Aug. 2021.

GESTIS - SUBSTANCE DATABASE. Available at: < [http://gestis-en.itrust.de/nxt/gateway.dll/gestis_en/000000.xml?f=templates\\$fn=default.htm\\$3.0](http://gestis-en.itrust.de/nxt/gateway.dll/gestis_en/000000.xml?f=templates$fn=default.htm$3.0) >. Access in: Aug. 2021.

HSDB - HAZARDOUS SUBSTANCES DATA BANK. Available at: <http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>. Access in: Aug. 2021.

IARC - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available at:
<http://monographs.iarc.fr/ENG/Classification/index.php>. Access in: Aug. 2021.

IPCS - INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY - INCHEM. Available at: <http://www.inchem.org/>.
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IUCLID - INTERNATIONAL UNIFORM CHEMICAL INFORMATION DATABASE. [S.1.]: European chemical Bureau.
Available at: <http://ecb.jrc.ec.europa.eu>.

NIOSH - NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards.
Available at: <http://www.cdc.gov/niosh/>. Access in: Aug. 2021.

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