



Succeed Life Science Pte. Ltd.

61 Tuas View Walk 2, Singapore 637630
Telephone: +65 6898 9909 Fax: + 65 6862 3669



SDS - SAFETY DATA SHEET

N-616 B

NBR Rubber bale

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

Product identifier: **N-616 B**

Relevant identified uses of
the substance or mixture and Lip Seals; O'Ring and Gaskets; Shoe Soles; Mechanical
Goods uses advised against:

Company Contact Information Succeed Life Science Pte Ltd
61 Tuas View Walk 2,
Singapore 637 630
Tel: (65) 6898 9909
Fax: (65) 6862 3669
Emergency Contact: (65) 9670 6809

2- HAZARDS IDENTIFICATION

Classification of the substance or mixture: Not classified as dangerous according to the classification system adopted.

Classification system adopted: Regulation (EC) N° 1272/2008 of the European Parliament and of the Council of 16 December 2008.

Label elements

Hazard pictograms: Not applicable.

Signal word: Not applicable.

Hazard Statement: Not applicable.

Precaution Statement: Not applicable.

Other hazards: Not applicable.

Classification of the substance or mixture: Not classified as dangerous according to the classification system adopted.

Classification system adopted: European Chemical Bureau – European Community:
Directive 67/548/EEC (substances).



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3- COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Product identifier:	Acrylonitrile-butadiene copolymer
Synonyms:	2-propenenitrile polymer with 1,3-butadiene
CAS n°:	9003-18-3
EC n°:	Not listed.
Ingredients or impurities that contribute to the hazard (%m):	This product doesn't have impurities that contribute to the hazard classification.

4- FIRST-AID MEASURES

Description of first aid measures

Inhalation:	Remove exposed personnel to fresh air.
Ingestion:	Do not induce vomiting. Rinse mouth with water. In case of indisposition, seek medical attention. Take this SDS.
Skin contact:	Wash with plenty of water for material removal.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention. Take this SDS.
Most important symptoms and effects, both acute and delayed:	There aren't symptoms and effects expected to happen after exposure to the product. Individuals with specific sensitivity may show eye irritation, skin or respiratory tract if exposed to fumes and vapors of the product's processing, with redness, pain, cough and tearing.
Indication of any immediate medical attention and special treatment needed:	If necessary, provide symptomatic treatment.

5- FIREFIGHTING MEASURES

Fire Extinguishing Media:	Product is not combustible, compatible with all extinguishing media, such as dry chemical, water spray, carbon dioxide, etc.
Special hazards arising from the substance or mixture:	May produce toxic fumes of carbon monoxide if burning.



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Advice for firefighters: Self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing.

6- ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Preventively remove ignition sources. Do not smoke. Avoid contact with the product. If necessary, use individual protective equipment as described on section 8 of this SDS.
For emergency responders:	Use complete protective equipment, with protection goggles, protection gloves, safety boots and adequate protective clothing.
Environmental precautions:	Prevent the spilled product of reaching watercourses and sewer system.
Methods and material for containment and cleaning up:	Use natural or spillage containment barriers. Sweep spilled material, collect it with a clean shovel and put it into appropriate recipient system and remove them to a safe place. For final destination, proceed as described on Section 13 of this SDS.
	See Section 7 for information on safe handling.
Reference to other sections:	See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

7- HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with skin, eyes and clothing. Avoid breathing the product. Ignition sources should be removed preventively. Do not handle near incompatible materials. Use proper personal protective equipment as indicated in Section 8.
Conditions for safe storage, including any incompatibilities:	Keep only in original container, in a cool, dry, well ventilated place, far from heat and ignition sources. Keep away from food. Keep container tightly closed. Keep out of reach of children.
Packaging materials:	Polyethylene film.



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8- EXPOSURE CONTROLS/PERSONAL

PROTECTION Permissible concentration

Occupational exposure limit:

	Chemical or common name	
	Butadiene	Acrylonitrile
TLV-TWA (ACGIH, 2012)	2 ppm	2 ppm
TLV-STEL (ACGIH, 2012)	NE	NE
REL-TWA (NIOSH, 2010)	NE	1 ppm
REL- C (NIOSH, 2010)	NE	10 ppm
REL- ST (NIOSH, 2010)	NE	NE
IDLH (NIOSH, 2010)	NE	85 ppm
PEL-TWA (OSHA, 2010)	1 ppm	2 ppm
PEL – ST (OSHA, 2010)	5 ppm	NE
PEL – C (OSHA, 2010)	NE	10 ppm

NE: not established.

Biological limit: Not established.

Recommended monitoring procedures: There are not available sufficient data to calculate this product's DNEL or PNEC.

Exposure controls

Engineering controls: Provide mechanical ventilation or direct exhaustion to the external media. It is recommended safety shower and eye bath available near work site. The engineering controls measures are the most effective to reduce exposure to the product. Keep concentrations of the product's constituents, below the occupational exposure limits indicated.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety wide vision goggles. Avoid wearing contact lenses while using this product.



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Skin and hand protection:	Natural rubber clothing, boots and gloves.
Respiratory protection:	Respiratory protection equipment, only if the inhalation of this product becomes possible by some procedure. Semi-facial mask with air filter against gases and autonomic air mask at emergency situations.
Thermal hazard:	Complete air-ventilated suit, with air supply, or any thermo-resistant clothing available.
Environmental exposure controls:	Do not discharge directly into the environment or into the sewer system. The dilution water from fire fighting can cause pollution.

9- PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid, bale.
Odor:	Characteristic
Odor threshold:	Not available.
pH:	Not applicable (solid).
Melting point/freezing point:	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flashpoint:	300°C
Evaporation Rate	Not applicable.
Flammability:	Not applicable.
Upper/lower flammability or explosive limits:	Not applicable.
Vapour density:	Not applicable.
Vapour Pressure:	Not applicable.
(Relative) density:	Approximately 0,98
Solubility(ies):	Immiscible on water.
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	373°C
Decomposition temperature:	Not established



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Explosive properties:	Not applicable.
Oxidizing properties:	No oxidizing properties.

10- STABILITY AND REACTIVITY

Reactivity:	It is not expected of the product to show reactivity potential.
Chemical stability:	Stable under normal conditions of storage and handling. Polymerization will not occur. It's not sensible to mechanical impacts.
Hazardous reactions:	There are not known hazardous reactions with the product.
Incompatible materials:	There are no known products or incompatible materials.
Conditions to avoid:	High temperatures.
Hazardous decomposition products:	Toxic fumes of carbon and nitrogen oxides.

11- TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:	It is not expected that the product shows acute toxicity.
Skin corrosion/irritation:	Exposure to high concentrations of the product's fumes and vapors may provoke slight irritation to skin with redness.
Serious eye damage/irritation:	Exposure to high concentrations of the product's fumes and vapors may provoke slight irritation to eyes with redness and tearing.
Respiratory or skin sensitization:	It is not expected of the product to provoke skin or respiratory sensitization.
Germ cell mutagenicity:	It is not expected of the product to present germ cell mutagenicity.
Carcinogenicity:	It is not expected of the product to present carcinogenicity, as the substance classified as carcinogenic is not available to be harmful to human health.

Information referring to:

- 1,3-Butadiene:

Suspected as human carcinogenic: Data obtained from human beings are not qualitatively adequate, but, are conflicting or insufficient to



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classify the agent as a confirmed human carcinogenic, in dose(s), by administration way(s), in locals, histological type(s), or mechanism(s) that can be considered relevant to worker's exposure. The A2 notation is used mainly when there are limited evidences of carcinogenicity in man and sufficient evidence of carcinogenicity on animal experiences, with relevance to human beings (A2 Group – ACGIH).

- Acrylonitrile:

Animal confirmed carcinogen with unknown relevancy to human beings: the agent is carcinogenic in animal experiments, in relatively high doses, by administration way(s), in locals, histological type(s), or mechanism(s) that can be considered relevant to worker's exposure. The available epidemiologic studies don't confirm and increase of the risk of cancer in humans exposed. The available evidences don't suggest that this agent is a probable human being cancer causing agent, except in exceptional ways of admission in the organism or exposure levels.

Reproductive toxicity:	It is not expected of the product to present reproductive toxicity.
Specific target organ toxicity – single exposure:	The ingestion of high concentrations of the product may cause gastrointestinal disturbances with abdominal pain, nausea and vomiting. The inhalation of vapors and fumes of the product may cause slight respiratory irritation, with cough.
Specific target organ toxicity – repeated exposure:	It is not expected of the product to present specific target organ toxicity by repeated exposure.
Aspiration hazard:	It is not expected of the product to present aspiration hazard.
Interactive effects:	No data available.
Other information:	There are no other information available.

12- ECOLOGICAL INFORMATION

Environmental effects, behavior and fate of the product

Toxicity:	It is not expected of the product to show ecotoxicity.
Persistence and degradability:	It's expected persistence and low degradability.
Bioaccumulative potential:	It's expected low bioaccumulative potential in aquatic organisms.
Mobility in soil:	Not determined.



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Results of PBT and vPvB assessment: Not available.

13- DISPOSAL CONSIDERATION

Waste treatment methods	The treatment and disposal should be evaluated specifically for each product. Federal, state and local laws should be consulted. Keep the remaining product in their original packaging and properly sealed. Disposal should be made as provided for the product. Do not reuse empty packaging. They may contain remnants of the product and must be closed and sent for proper disposal as required for the product.
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14- TRANSPORT INFORMATION

International regulations

Land:	UN – “United Nations” Recommendations on the TRANSPORT OF DANGEROUS GOODS. Model Regulations, 16th Edition, 2009.
Sea:	IMO - “International Maritime Organization” International Maritime Dangerous Goods Code (IMDG Code) - Incorporating Amendment 34-08; 2008 Edition.
Air:	IATA - “International Air Transport Association” Dangerous Goods Regulation (DGR) - 51th Edition, 2010.
UN number:	Not classified as hazardous for transport.
UN proper shipping name:	Not applicable.
Transport hazard class:	Not applicable.
Packing group:	Not applicable.
Environmental hazards:	Not hazardous.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	It’s not listed.



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15- REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:	Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Regulation 1272:2008: GHS, United Nations, 4th Revised Edition, 2009. ECB: Directives 67/548 e 1999/45. UN Recommendations on the TRANSPORT OF DANGEROUS GOODS. Model Regulations, 17th Edition, 2009.
Chemical safety assessment:	Not available

16- OTHER INFORMATION

This SDS has been elaborated on the basis of current knowledge about proper handling of the product and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product which involves combining it with other materials, and use forms other than those specified, are responsibility of the user. The caveat is that the handling of any chemical requires prior knowledge of its dangers by the user. In the workplace rests with the user company's product to promote the training of its employees and contractors about the potential risks from exposure to the chemical.

Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists

CAS - Chemical Abstracts Service

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

STEL/ST – Short Term Exposure Limit

TLV - Threshold Limit Value

TWA - Time Weighted Average
