

SAFETY DATA SHEET


Date prepared/updated: 4th April, 2016

Version number: 1

SECTION 1: Identification

- 1.1 Product identifier used on the label** JSR TRD104A
- 1.2 Other identification** Butadiene-styrene type copolymer (suspension)
- 1.3 Recommended use of the chemical and restrictions on use** General industrial product.
Uses advised against: not available
- 1.4 Manufacturer, importer, or other responsible party** [US company name]
[address]
[telephone number].
- Non-US supplier:* JSR Corporation
1-9-2, Higashi-Shinbashi, Minato-ku, Tokyo, 105-8640 Japan
Tel +81-3-6218-3645 Fax +81-3-6218-3678
(Japan Standard Time; Monday to Friday, 9:15 - 17:45)
- 1.5 Emergency phone number** 001 866 928 0789 (toll free), +1 215 207 0061 (geographic) for NCEC Carechem24 (English only, 24 h, every day, in US and Canada).

SECTION 2: Hazard(s) identification

- 2.1 Classification of the chemical in accordance with paragraph (d) of § 1910.1200** Not hazardous according to the OSHA Hazard Communication Standard 2012.
- Classification according to Regulation (EC) No. 1272/2008** Aquatic Chronic 2, H411
- 2.2 Symbols, signal word, hazard and precautionary statements**
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- Pictogram Environment.
- Signal word None.
- Hazard statements Toxic to aquatic life with long lasting effects.
- Precautionary statements Avoid release to the environment.
Collect spillage.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- 2.3 Other hazards** None.
- 2.4 Statement of unknown** None.

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hazard

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Components	Conc. (wt%)	CAS No.
Butadiene-styrene type copolymer	40 to 50	Trade secret
Water	50 to 60	7732-18-5
Other ingredient(s)	<2	Trade secret

SECTION 4: First-aid measures

4.1 Description of first aid measures

Inhalation	In case of suspected mist or vapor inhalation, move the victim to fresh air. For difficulties in breathing, respiratory irritation, or other symptoms get prompt medical attention.
Skin	Remove contaminated clothing and shoes. Flush affected areas with large amount of water and soap. Get medical aid if patient feels unwell, or irritation develops. Launder clothing before re-use.
Eye	Flush eyes with plenty of room-temperature water for several minutes, occasionally holding eyelids apart. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
Ingestion	If swallowed, rinse mouth thoroughly and give water to drink. Get prompt medical attention. Do not induce vomiting, unless instructed by medical personnel.

4.2 Most important symptoms/effects, acute and delayed May irritate eyes.

4.3 Indication of immediate medical attention and special treatment needed Treat symptoms as they occur.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable	General fire-fighting media such as water spray, foam, dry chemical powder, or carbon dioxide.
Unsuitable	Not available.

5.2 Special hazards arising from the chemical The product is water-based and not flammable, but the dried product may burn. If involved in a fire, product will decompose producing black smoke and hazardous vapors and gases.

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5.3 Special protective equipment and precautions for fire-fighters	Use water spray to keep fire-exposed containers cool. Wear full protective clothing and self-contained breathing apparatus. Prevent water from fire-fighting from entering water-courses or drainage system.
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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	<p>For large-scale spills, ensure full personal protection is worn. Keep unauthorized personnel from the spillage area. Ventilate area. Use non-sparking tools and equipment.</p> <p>Follow prescribed procedures for responding to large spills and reporting to authorities.</p> <p>For recommended personal protective equipment, see Section 8.</p> <p>For disposal considerations, see Section 13.</p>
6.2 Methods and material for containment and cleaning up	<p>Stop the source of leak or release. Clean up spill as soon as possible. Prevent product from entering water courses or drainage system by using bunding or absorption with inert material.</p> <p>For small quantities, wipe off with cloth or paper.</p> <p>For large quantities, recover by using appropriate techniques such as pumping, or absorption with an inert material such as dry sand.</p> <p>The product can be coagulated with calcium chloride. Spray calcium chloride solution (about 10 wt%) on to the spilled latex, and agitate it. If insufficient is used, the product may not coagulate; in such a case, spray more. In urgent cases, coagulate the product by sprinkling on solid calcium chloride.</p> <p>Wash contaminated surfaces with water and detergent, and collect waste, washings, and contaminated materials for safe disposal.</p>

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Avoid skin and eye contact with the product, using measures as described in Section 8. Use only in a well-ventilated area. Wash hands after use.
7.2 Conditions for safe storage, including any incompatibilities	Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Exposure limits	None.
8.2 Engineering controls	Good general ventilation is recommended. Local exhaust ventilation or use in a closed system is recommended during mixing, processing, and molding, particularly if mist, vapor or spray might be generated.
8.3 Individual protection measures	<p>The need for personal protective equipment should be based on a workplace risk assessment for the particular use.</p> <p>Avoid skin and eye contact by wearing chemical resistant gloves (eg</p>

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rubber or resin) and safety goggles.

Where more extensive contact may occur, wear suitable protective clothing (eg apron, sleeves, boots).

Wear respiratory protective equipment (vapor or dust mask), if exposure to vapors or dust is foreseen.

PPE should be to state or federal standards. Consult manufacturers concerning breakthrough times.

We recommend safety shower and eye wash facilities are installed in the workplace.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Milky white liquid
Odor	Slight
Odor threshold	Not available
pH	7.6
Melting/freezing point	0 °C
Initial boiling point/range	100 °C
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flamm. or expl. limits	Not available
Vapor pressure	2310 Pa at 20 °C for water
Vapor density	Not available
Relative density	1
Solubilities	Miscible in all proportions in water
Partition coeff. (log K _{ow})	Not available
Auto-ignition temp.	Not available
Decomposition temp.	Not available
Viscosity	Not available

9.2 Other information Not available

SECTION 10: Stability and reactivity

10.1 Reactivity Not available.

10.2 Chemical stability Stable at room temperature under normal storage and handling conditions.

10.3 Possibility of Not available.

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hazardous reactions

10.4 Conditions to avoid	Avoid storage at high temperatures or in direct sunlight.
10.5 Incompatible materials	Strong acids, alkalis, and oxidising agents.
10.6 Hazardous decomposition products	Not available.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Acute toxicity	Butadiene-styrene type copolymer: non-toxic on the basis of structure and molecular weight.
Skin corrosion/irritation	Not classified due to lack of data.
Serious eye damage/irritation	Not classified due to lack of data.
Respiratory or skin sensitization	Not classified due to lack of data.
Germ cell mutagenicity	Not classified due to lack of data.
Carcinogenicity	Not classified due to lack of data.
Reproductive toxicity	Not classified due to lack of data.
STOT-single exposure	Not classified due to lack of data.
STOT-repeated exposure	Not classified due to lack of data.
Aspiration hazard	Not classified due to lack of data.

SECTION 12: Ecological information

12.1 Ecotoxicity	The product is toxic to aquatic life with long lasting effects. Algae (<i>Pseudokirchneriella subcapitata</i>) 72 h EC ₅₀ >100 mg/L, NOEC 1.0 mg/L; Crustacea (<i>Daphnia magna</i>) 48 h EC ₅₀ >100 mg/L; Fish (<i>Oryzias latipes</i>) 96 h LC ₅₀ >100 mg/L. Product may turn freshwater turbid over a large area.
12.2 Persistence and degradability	Not expected to be readily biodegradable.
12.3 Bioaccumulative potential	Not available.
12.4 Mobility in soil	Not available.
12.5 Other adverse effects	Not available.

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SECTION 13: Disposal considerations

- 13.1 Waste treatment methods** Incineration or landfill is recommended for this product and any recovered material. We recommend coagulation and solidification of the product with calcium chloride prior to disposal. Disposal via drains is not recommended.
- This product and contaminated containers should be disposed of according to current local, state, or federal regulations.

SECTION 14: Transport information

- 14.1 UN Number** Not classified as dangerous goods for transport in the USA.
- 14.2 UN proper shipping name** Not applicable.
- 14.3 Transport hazard class(es)** Not applicable.
- 14.4 Packing group** Not applicable.
- 14.5 Environmental hazards** Classified as environmentally hazardous for transport according to UN criteria: UN 3082 (ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N O S), Class 9, Packing Group III
- 14.6 Special precautions for user** Confirm that containers are intact before transport. Handle with care and prevent load collapse. Avoid heat and direct sunlight.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the substance or mixture

	Section 302 (EHS TPQ)	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA Code	CAA 112(r) TQ
None						

OSHA: Hazard Communication Rule, 29 CFR, 1910.1200.

EPCRA (Emergency Planning and Community Right-to-Know Act): Section 302: Extremely Hazardous Substances (EHS), Threshold Planning Quantity (TPQ) in 40 CFR 355; EPCRA Section 304 gives EHS reportable quantities (RQ); Section 313 Toxic Chemicals, subject to annual reporting (40 CFR 372).

CERCLA (Comprehensive Environmental Response Compensation and Liability Act), Hazardous Substances; accidental release of substances above the Reportable Quantity (RQ) listed (in pounds) requires reporting; local reporting requirements may be in force.

RCRA Hazardous Wastes: RCRA P and U lists (40 CFR 261.33).

CAA Substances for Accidental Release Prevention: Clean Air Act 112 (r), Hazardous Air Pollutants; Threshold Quantities (TQ).

Other regulatory

NFPA RATING (Scale 0 – 4): HEALTH = 1; FIRE = 0; REACTIVITY = 0

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SECTION 16: Other information

Revisions	This SDS is the first version in US format. Date prepared: 4 th April, 2016
Abbreviations	EC, effect concentration; LC, lethal concentration; NOEC, no-observed-effect-concentration; OSHA, US Occupational Safety and Health Administration; STOT RE, specific organ toxicity repeated exposure; STOT SE, specific target organ toxicity single exposure.
References	Search for chemicals; available at the European Chemicals Agency website: http://echa.europa.eu/ . List of Lists; Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112(r) of the Clean Air Act; US EPA; October 2012. Guide to Occupational Exposure Values; ACGIH, 2013.
Basis of classification	The substance is classified on the basis of available information on the ingredients.

Disclaimer:

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- (2) The precautionary measures in handling the material which is the subject of this data sheet ("Material") as mentioned herein are based upon an assumption that the Material is handled in an ordinary way. In case of special handling, extra or different safety measures suitable thereof need to be taken.
- (3) It is your own responsibility to examine and confirm if the Material meets or suits any regulation or restriction in your country or of your local authority.
- (4) Final determination of safety and suitability of the Material for your intended use is your sole responsibility. The Material may present unknown hazards, and therefore should be handled with adequate caution. Although certain hazards are described herein, neither JSR nor any of its subsidiaries guarantees that they are the only hazards which exist in relation to the Material.
- (5) Export of the Material may require an export license from the relevant authorities and shall be made in strict compliance with the laws and regulations related to export control, including, but not limited to, Foreign Exchange and Foreign Trade Control Law of Japan and the Export Administration Act of 1979 (as amended) of the United States of America.