

Material Safety Data Sheet

(JIS Z 7250:2005)

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Date of Translation: June 30, 2011

1. Identification

Chemical material name	Chloroprene homopolymer		
Product name	DENKA CHLOROPRENE M Series		
Identification of Substance	Classified as chloroprene rubber, a kind of synthetic rubber. This MSDS applies to Chloroprene homopolymer		
Name of types	A-30, A-70, A-90, A-90S, A-91, A-100, A-120, A-400, DCR-15L, DCR-15H, DCR-16, DCR-42, DCR-42A, M-30, M-31, M-40, M-41, M-70, M-100, M-120, M-130L, M-130H, EM-30, EM-40, MT-40, MT-100, DCR-11, TA-85, TA-95, DCR-10, DCR-25		
Company information	Company name	Denki Kagaku Kogyo Kabushiki Kaisha	
	Address	1-1, Nihonbashi-muromachi 2-chome, Chuo-ku, Tokyo 103-8338, Japan	
	Division in charge	Organic Chemicals Department, Chemicals Division	
	General contact		
	phone number	Telephone No.	+81-3-5290-5550
fax number	Fax No.	+81-3-5290-5400	
mail address	Mail address	010261@denka.co.jp	
Prepared by	Engineer in charge, Organic Chemicals Department, Chemicals Division		
Emergency contact	Chloroprene Section, Organic Production Department No.2., Omi Plant		
Emergency contact			
phone number	Telephone No.	+81-25-562-6471	
fax number	Fax No.	+81-25-562-6488	
Recommended use and restrictions on use	Used as raw material rubber for rubber hoses, gaskets, waterproof sheet, rubber sponges, rubber plates, rubber boots, rubber rolls, rubber belts, rubber-line cloths, rubber glues, and other rubber parts, as well as rubber adhesives. Use for medical transplantation products in the human body is prohibited. There is no information about hazard when used for medical supplies; therefore, confirm the safety sufficiently before use.		
Data information	Data code	CR-EN-M	
	Date of first printing	September 20, 1995	
	Date of previous revision	February 3, 2009	

2. Hazard(s) Information

GHS classification	Physical and chemical hazard	
	Inflammable solid	Not classified
	Hazard to health	Not classified
	Hazard to environment	Not classified
Label element	Pictogram and symbol	Not applicable
	Hazard(s) Information	
	Signal word	Not applicable

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Country/area information	Hazard statement	Not applicable
	Precautionary statement	Not applicable

3. Composition/Information on Ingredients

Classification of substance	Chemical substance (Synthetic rubber)
Chemical name	Polychloroprene (2-chloro-1,3-butadiene homopolymer)
Name based on the Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances	Chloroprene homopolymer
CAS registration name	1,3-butadiene, 2-chloro-, homo-polymer
Chemical structural formula	$(-\text{CH}_2-\text{CCl}=\text{CH}-\text{CH}_2-)_n$
Ingredients and content Relationship with Japanese laws and regulations	

Name of ingredient	CAS No.	Content	PRTR of Japan*1
Chloroprene homopolymer	9010-98-4	Main ingredient	Not applicable
Resin ingredient	8050-09-7	Approx. 5%	Not applicable
Talc (asbestos not included)	14807-96-6	1% or less	Not applicable

*1 PRTR: Government Ordinance Number, Specified that based on the Order for Enforcement of the Law concerning PRTR of Japan.

Impurities contributing to GHS classification

Resin ingredient	Listed as the Toxic Substances Control Act (TSCA) and EU directive 67/548/EEC. The substance is considered to cause skin and eye irritation according to the EU directive. Therefore, the representative specimen of Denka Chloroprene was examined in conformity with the OECD Guideline No.406. The result of the Guinea Pig Maximization Test was negative.
Talc	No contribution because it is natural inorganic powder not containing asbestos
Reach registration	2-chloro-1,3-butadiene (R E A C H Reg Nr.;01-2119517567-33-XXXX is the starting monomer.

4. First-aid measures

Inhalation	Inhalation of a large quantity of scrap rubber or adhesion-preventive talc may damage the lung and/or bronchus. Move the person to a place with fresh air, and consult with a doctor.
Skin contact	When talc adheres to the skin, wash it off well with soap and water.
Eye contact	(1) Wash the eyes with clean water for more than 15 minutes to completely wash off scrap rubber or adhesion-preventive talc. (2) When the eyes are damaged or when there is pain or stimulation, consult with a medical specialist.
Ingestion	Should the substance be ingested, let the person vomit it and wash the mouth with water.
Expected acute and late-onset symptoms	No information
The most important signs and	No information

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symptoms

5. Fire-fighting measures

Fire extinguishing media	Water, dry chemicals, carbon dioxide fire extinguisher, foam extinguisher, fire-fighting sand, etc.
Specific hazard	There is a risk of generation of hydrogen chloride, carbon monoxide, carbon dioxide, sulfur dioxide, and other harmful gas when the product catches fire.
Specific fire-fighting methods	The cracked gas may contain hydrogen chloride. Wear appropriate protective equipment.
Special equipment for protection of firefighters	Wear a gas mask for noxious gas, goggles, rubber protective gloves, and other protective equipment.

6. Accidental release measures

Precautions concerning human body, protective equipment, and emergency measures	Wear protective gloves when collecting rubber chips that have leaked. Be careful not to slip and fall by tale.
Environmental precautions	Collect and put the product in an appropriate container and clean the area around the container. Collect the product when it leaks into a river or sewage.
Method of removal	Collect the scattered rubber chips and put them in a paper bag or drum. Dispose of the collected rubber chips in an appropriate way.

7. Handling and Storage Precautions

Handling	
Technical measures	Wear appropriate protective equipment and handle the product in a well-ventilated place. When some inflammable solvent is used in the vicinity, install a static eliminator.
Local exhaust/overall ventilation	Volatile gas generated during kneading, processing, and forming may irritate the eyes, nose, respiratory organs, and skin. Install a local exhauster, etc. for sufficient ventilation.
Precautions for safe handling	Wear protective gloves, protective goggles, protective mask, and safety shoes. Avoid abnormally high temperature when handling the product for rubber processing.
Avoidance of contact	After handling, gargle your throat. Wash your hands and face with soap and water.
Storage	
Technical measures	Store the product in a cool, dark room, avoiding direct sunlight. Install a ventilating system.
Hazardous mixed melting substance	No information
Storage condition	Store the product in a dry, dark, cold room at a temperature below 20°C.
Container and packing material	Use a paper bag and opaque container.

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8. Exposure Prevention and Protective Measures

Allowable concentration	1) Talc Japan Society for Occupational Health (Total powder dust) (2007) TLV (ACGIH) : 2 mg/m ³ , 8 Hr. TWA (2008)
Measures for facilities	Use a local exhauster during kneading, processing, and forming for sufficient ventilation. Install a hand-wash and eyewash facilities.
Protective equipment	Protective equipment for respiratory organs Dust respirator Protective equipment for hands Rubber or cloth protective gloves Protective equipment for eyes Protective goggles Protective equipment for skin and body Long-sleeved working cloths, safety shoes, etc.
Hygiene measures	After handling, gargle your throat. Wash your hands and face with soap and water.

9. Physical and Chemical Characteristics

Physical state; shape; color	Solid; chips; white or yellow
Smell	Faint odor
pH	Not applicable
Melting point/solidifying point	Not determined
Boiling point	Not applicable
Flash point	Not applicable
Combustion or explosion range	No data
Vapor pressure	Non-object
Vapor density	Non-object
Specific gravity (relative density)	1.2-1.3
Solubility	Insoluble in water; soluble in toluene
n-octanol-water partition coefficient	Non-object
Spontaneous ignition temperature	No data
Decomposition temperature	250°C or more (conforming to JIS K 7120)

10. Stability and Reactivity

Stability	Stable during general handling Long-time exposure at high temperature is prohibited.
Reactivity	No self-reactivity
Hazardous decomposition product	Carbon monoxide, sulfur compound, and hydrogen chloride

11. Hazard Information

Acute toxicity	No data
Skin corrosion/irritation	According to the test result of the representative specimen of Denka Chloroprene subjected to the Guinea Pig Maximization test (skin irritation) conforming to OECD Guideline No.406
Serious eye damage/eye irritation	No data
Respiratory or skin sensitization	No data

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Germ cell mutagenicity	No data
Carcinogenicity	No data
Reproductive toxicity	No data
Specific target organ/systematic toxicity	No data
Aspiration hazard	No data

12. Ecological Information

Ecotoxicity	Not classified According to the results of the test of the representative specimen of Denka Chloroprene subjected to the EC ₅₀ /DESMODESMUS SUBSPICATUS test conforming to the OECD Guideline No.201, EC ₅₀ /DAPHNIA MAGNA test conforming to No.202, and EC ₅₀ /ZEBRA FISH test conforming to No.203
Persistence and degradability	No data
Bioaccumulative potential	No data
Mobility in soil	No data

13. Disposal Consideration

Residual waste	The product should be incinerated in an appropriate manner, because it is a chlorine-containing high molecular compound. The product entrust an industrial waste management contractor licensed by the governor with its disposal.
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14. Transport Information

UN No.	Not applicable
UN classification	Not applicable
Packing group	Not applicable
Marine pollutant	Not applicable
Fire Service Law	Not applicable
Others	Cover the product with a sheet to avoid exposure to water and direct sunlight. Secure the product or take some other appropriate measures to prevent collapse of cargo piles.

15. Regulatory Information

Chemical safety assessment :
A Chemical Safety Assessment has not been carried out.

16. Other Information

1) Information about food sanitation

Under control of the regulations of the U.S. Food and Drug Administration

Reference) Code of Federal Regulations	21CFR175. 105	Adhesives
	21CFR175. 300	Resinous and Polymer Coatings

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21CFR176. 170	Ingredients of Aqueous or Oleaginous
21CFR177. 2600	Rubber Parts for Repeated Use
21CFR189. 250	List of Substances Prohibited as compounding ingredients

2) Information about European Commission Directive 2001/58/EC SDS Guide

The resinous ingredients described in [3. Composition/Information on Ingredients] are classified as the chemical substance listed in the Commission Directive 2004/73/EC of 29 April 2004 adapting to technical progress for the 29th time; Council Directive 67/548/EEC Annex I of the European Council Directive 67/548/EEC. According to 2001/58/EC "Guide of the Compilation of Safety Data Sheets," it is obligatory to express clearly in the MSDS when Denka Chloroprene is used in Europe. Please use the European version of MSDS.

- 1) This information is correct within the knowledge of the writer of the MSDS. However, the contents of the information are not absolute and the exhaustiveness of information collection is incomplete.
- 2) The contents refer to the materials and product, and the cases where the materials are combined with some other materials and processed have not been taken into consideration.
- 3) Users shall assume the responsibility for the final decision to appropriately use the material and for adapting this information to the user's original handling in a manner to ensure complete and satisfactory utilization.
- 4) All materials have unknown hazard, and they should be handled with sufficient care. Specific hazard is described in this MSDS, which does not ensure the absence of different hazard.
- 5) Be sure to conduct an advance test before actual use to confirm whether the materials conform to the purpose of use and to confirm the safety as well.
- 6) The description of the MSDS is subject to change without notice according to new knowledge.