

CHLOROPRENE RUBBER
SAFETY DATA SHEET (REVIEW)

ICSC#: NONE
ISSUE DATE: 1/05/2010

1. Identification

Product Name: CHLOROPRENE RUBBER

Synonyms: Chlorobutadiene Polymer; Neoprene Rubber; 2-Chloro-1,3-Butadiene Polymer; Poly(chloroprene)

Trademarks: SN121 SN122 SN231 SN232 SN241 SN242 SN243 SN244 SN238 SN239

Product Use: mechanical rubber products, lining oil-loading hose and reaction equipment, adhesive cement, binder for rocket fuels, coatings for electric wiring, gaskets and seals; Liquid form: specialty items made by dipping or electrophoresis from latex; Foam form: adhesive tape to replace metal fasteners for automotive accessories; seat cushions; carpet backing; sealant

Manufacturer/Supplier: Shanxi Nairit / United Chemical Products Ltd. Corp

Address: No. 31, HuaYuan East Road,
Haidian District, Beijing, China. 10029

Telephone No.: +86 10 62056135

Emergency No.: +86 10 62056135

2. Hazards Identification

GHS Classification:

Chemical Name	Physical	Health	Environmental
Chloroprene Rubber	Not classified	Not classified	Not classified

GHS Label:

Symbols: None	
Hazard Statements None	Precautionary Statements None
Other Hazards (Not lead to the classification): At processing temperatures above 200°C (392 F), fumes irritating to the eyes, nose, and throat may be produced. This exposure may result in reddening, tearing, and itching of the eyes and soreness in the nose and throat together with coughing.	

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3. Composition / Information on Ingredients

Component	CAS Number	Weight %
2-CHLORO-1,3-BUTADIENE POLYMERS & COPOLYMERS	9010-98-4	≥97
TALC, containing no asbestos fibers	14807-96-6	≤1.5
WATER	231-791-2	≤1.5

Material is not known to contain Toxic Chemicals under Section 313 of Title III of the Superfund Amendments (SARA) and Reauthorization Act of 1986 and 40 CFR part 372.

4. First Aid Measures

Eye: No corrosive to eyes. In the case of entering into eyes, please wash them with copious amounts of water.

Skin: The compound is not likely to be hazardous by skin contact but cleansing the skin with soap and water after use is advisable. If molten material gets on skin, cool rapidly with cold water. Do not attempt to remove material from skin. Obtain medical treatment for thermal burn.

Inhalation: Irritating fumes occurred only in the heating process. If inhaled fumes too much, please move patient to fresh air or administer oxygen and assist ventilation as required.

Ingestion: Ingestion is not a probable route of exposure. And chloroprene rubber is no serious harm for human health, for which is low toxicity. If uncomfortable, call a physician.

5. Fire Fighting Measures

Fire and Explosion Hazards:

Hazardous Combustion Products: Complete combustion gives hydrogen chloride, carbon dioxide, sulfur dioxide and water. Incomplete combustion gives in addition carbon monoxide, organic acids, aldehydes, and alcohols.

Suitable Extinguishing Media: Water, Foam, Dry Chemical, CO₂.

Fire Fighting Procedures: Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

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Unusual Fire and Explosion Hazards: None

6. Accidental Release Measures

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Spill Clean Up

Recover undamaged and minimally contaminated material for reuse and reclamation. Scrape up spilled polymer. Shut off ignition sources; Provide ventilation.

7. Handling and Storage

Handling

Do not breathe vapors in the heating processs, and keep adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking.

Storage

Store in tightly closed containers in cool, dry, well-ventilated area away from heat, incompatible substances. Ground lines and equipment used during transfer to reduce the possibility of static spark-initiated fire. Store at ambient or lower temperature. Store out of direct sunlight.

8. Exposure Controls / Personal Protection

Engineering Controls: Local exhaust ventilation may be necessary to control air contaminants from hot processing. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Chloroprene Rubber	none listed	none listed	none listed

Personal Protective Equipment (PPE)

Eye/Face Protection

In the heating process, wear safety glasses when possibility exists for eye and face contact due to splashing or spraying of molten material. Have eye-wash stations available where eye contact can occur.

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Skin Protection: Wear gloves impervious to the heating conditions of use. Additional protection may be necessary to prevent skin contact including use of face shield, boots or full body protection. A safety shower should be located in the work area.

Respirators

In the heating process, air purifying respirator with an organic vapor cartridge with a dust/mist filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protective Clothing

If there is potential contact with hot/molten material, wear heat resistant clothing and footwear.

9. Physical and Chemical Properties

Odor/Appearance: Mild characteristic/Amber chips

pH: Not available

Melting Point: approximately 30-70°C

Boiling Point: Not available

Flashpoint: Not suitable

Evaporation Rate (Water=1): Not available

Flammability: Flammable

Lower Flammability Limit: Not available

Upper Flammability Limit: Not available

Vapor Pressure: Not available

Vapor Density(Air=1): Not available

Relative Density: 1.23

% Solubility: Insoluble

Octanol/Water Partition Coefficient: Not suitable

Autoignition Temperature: Not available

Viscosity: Not available

Decomposition Temperature: Not available

Molecular Formula: (C₄H₅Cl)_n

Molecular Weight: Approximately 100,000 to 300,000 (daltons)

10. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Resistant to oils, oxygen, ozone, corona discharge, & electric current.

Conditions to Avoid: Incompatible materials, dust generation, excess heat, strong oxidants.

Incompatibilities with Other Materials: Strong Oxidizing agents.

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Fire Potential: Combustible, but less so than natural rubber

Hazardous Decomposition Products: When heated to decomposition it emits irritating and toxic vapors as Hydrogen chloride, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported

11. Toxicological Information

RTECS#: CAS# 9010-98-4: EI9640000

LD₅₀/LC₅₀: Not available.

Carcinogenicity: CAS# 9010-98-4: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found

Teratogenicity: No information found

Reproductive Effects: No information found

Mutagenicity: No information found

Neurotoxicity: No information found

Other Studies:

Evidence for Carcinogenicity:

No adequate data are available in humans. No adequate data are available in animals.
OVERALL EVALUATION: Group 3: The agent is not classifiable as to its carcinogenicity to humans.

[IARC. Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. Geneva: World Health Organization, International Agency for Research on Cancer, 1972-PRESENT. (Multivolume work)., p. S7 70 (1987)]

Non-Human Toxicity Excerpts:

Neoprene is formed from polymerization of chloroprene, which can be irritating to skin & to respiratory tract. Animal experiments show evidence of liver & kidney damage, thought to be nonspecific.

[Hamilton, A., and H. L. Hardy. Industrial Toxicology. 3rd ed. Acton, Mass.: Publishing Sciences Group, Inc., 1974., p. 346]

Neoprene injections into dogs was simple & effective means of obviating pancreatic exocrine function; Dogs did survive without diabetes after neoprene injections into pancreatic duct & removal of 2/3 of gland. Progressive fibrosis of tissues occurred.

[DUBERNARD JM ET AL; TRANSPLANT PROC 12(4) SUPPL 2 123 (1980)]

Polychloroprene was evaluated for toxicity of pyrolysis gases. It exhibited varying levels of toxicity under the screening test method developed @ univ of san Francisco. Time to death was longest with polychloroprene.

[HILADO CJ, MACHADO AM; J COMBUST TOXICOL 5(2) 162 (1978)]

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12. Ecological Information

Aquatic toxicity:

No information is available. Toxicity is expected to be low based on insolubility in water.

13. Disposal Considerations

SRP: At the time of review, criteria for land treatment or burial (sanitary landfill) disposal practices are subject to significant revision. Prior to implementing land disposal of waste residue (including waste sludge), consult with environmental regulatory agencies for guidance on acceptable disposal practices.

14. Transport Information

U.S. Department of Transportation (DOT)

Proper Shipping Name: Not regulated as a hazardous material

Hazard Class: None

UN/NA Number: None

Packing Group: None

Labels Required: None

15. Regulatory Information

US FEDERAL

TSCA:

CAS# 9010-98-4 is listed on the TSCA inventory.

Health & Safety Reporting List:

None of the chemicals are on the Health & Safety Reporting List.

SARA Section 302 Extremely Hazardous Substances:

None of the chemicals in this product have a TPQ.

Section 313:

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

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European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases: None

Safety Phrases: S24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 9010-98-4: No information available.

Canada - DSL/NDSL

CAS# 9010-98-4 is listed on Canada's DSL List.

Canada - WHMIS

WHMIS: Not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

16. Other Information

Added Information:

CFR	The Code of Federal Regulations
ACGIH	American Conference of Governmental Industrial Hygienists
NIOSH	National Institute of Occupational Safety and Health
MSHA	Mine Safety and Health Administration
OSHA	Occupational Safety and Health Act(Administration)
TSCA	Toxic Substance Control Act
DSL/NDSL	Domestic Substances List/None-domestic Substances List
IARC	International Agency For Research On Cancer
NTP	National Toxicology Program
WHMIS	Workplace Hazardous Materials Information System
WGK	Water Hazard Classes (WHC)
TPQ	Threshold Planning Quantity

SDS MAKER: Oriental Chemical Information Co.,Ltd (OCI)

Tel: 86-10-68091928/2021

Revision Date: 01/05/2010

Revision Indicator: New Safety Data Sheet (SDS)

Disclaimer: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.