Material Safety Data Sheet

DuPont Performance Elastomers

# *Neoprene polychloroprene*

Version 2.1

Revision Date 08/07/2008 Ref. 130000043425

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

| | | |
|---|---|---|
| Product name | : | Neoprene polychloroprene |
| Product Grade/Type | : | NPR 2008 |
| MSDS Number | : | 130000043425 |
| Product Use | : | Rubber products |
| Manufacturer | : | DuPont Performance Elastomers L.L.C<br>Bellevue Park Corporate Center, 300 Bellevue Parkway<br>Wilmington, Delaware 19809 |
| Product Information | : | 1-800-441-7515 (outside the U.S. 1-302-774-1000) |
| Medical Emergency | : | 1-800-441-3637 (outside the U.S. 1-302-774-1139) |
| Transport Emergency | : | CHEMTREC: 1-800-424-9300 (outside the U.S. 703-527-3887) |

## SECTION 2. HAZARDS IDENTIFICATION

Potential Health Effects

Skin : May cause skin irritation in susceptible persons.

Eyes

Poly(2-chloro-1,3-butadiene) : May irritate eyes.

Rosin : May irritate eyes.

Inhalation

Talc (asbestos-free) : May cause nose, throat, and lung irritation. Cough, Severe shortness of breath, Difficulty in breathing, Prolonged contact may cause:, Chronic lung disease with alterations in lung function or difficulty breathing.

Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS-No. | Concentration |
|---|---|---|
| Poly(2-chloro-1,3-butadiene) | 9010-98-4 | >95% |
| Rosin | 8050-09-7 | <5 % |
| Talc (asbestos-free) | 14807-96-6 | <1 % |

## SECTION 4. FIRST AID MEASURES

| | | |
|---|---|---|
| Skin contact | : | Wash off with soap and water. Cool skin rapidly with cold water after contact with hot polymer. Do not peel polymer from the skin. Consult a physician if necessary. |
| Eye contact | : | Rinse thoroughly with plenty of water, also under the eyelids. Consult a physician if necessary. |
| Inhalation | : | If breathed in, move person into fresh air. Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Consult a physician if necessary. |
| Ingestion | : | If victim is conscious: Drink water as a precaution. Consult a physician. |
| General advice | : | If symptoms persist, call a physician. |

## SECTION 5. FIRE-FIGHTING MEASURES

| | | |
|---|---|---|
| Flammable Properties<br>Flash point | : | > 260 ℃ (> 500 ℉) open cup |
| Fire and Explosion Hazard | : | Burning produces obnoxious and toxic fumes. |
| Extinguishing Media | : | Carbon dioxide (CO2), Foam, Water, Dry chemical |
| Firefighting Instructions | : | Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas. Do not allow run-off from fire fighting to enter drains or water courses. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

| | | |
|---|---|---|
| Safeguards (Personnel) | : | Refer to protective measures listed in sections 7 and 8. |
| Spill Cleanup | : | Shovel into suitable container for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations. |
| Accidental Release Measures | : | Try to prevent the material from entering drains or water courses. |

## SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Protect from contamination. Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be generated. Do not breathe dust. Do not breathe fumes evolved from hot polymer. General precaution for all plastics and elastomers: Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing. When using do not eat, drink or smoke.

Handling (Physical Aspects) : General precaution for all plastics and elastomers: Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Avoid dust formation.

Storage : Keep in a dry, cool and well-ventilated place. Keep containers dry and tightly closed to avoid moisture absorption and contamination.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Use only in area provided with appropriate exhaust ventilation.

Personal protective equipment

Eye protection : Safety glasses with side-shields

Skin protection : If there is a potential for contact with hot/molten material wear heat resistant clothing and footwear.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Where there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

Exposure Guidelines

Exposure Limit Values

Hydrogen chloride (gas)

| | | | | |
|---|---|---|---|---|
| PEL | (OSHA) | 5 ppm | 7 mg/m3 | Ceiling |
| TLV | (ACGIH) | 2 ppm | Ceiling | |

Talc (asbestos-free)

| | | | | |
|---|---|---|---|---|
| PEL | (OSHA) | 0.3 mg/m3 | TWA | Total dust. |
| | Remarks | The exposure limit is calculated from the equation, 30/(%SiO2+2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits. | | |
| PEL | (OSHA) | 0.1 mg/m3 | TWA | Respirable. |
| | Remarks | The exposure limit is calculated from the equation, 10/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 | | |

| | | | | | |
|---|---|---|---|---|---|
| TLV | (ACGIH) | 2 mg/m3 | TWA | Respirable fraction. | will yield higher exposure limits. |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| Form | : | chips |
| Color | : | off-white, tan |
| Odor | : | slight, characteristic |
| Density | : | 1.23 g/cm3<br>Method: ASTM D 792 |
| Water solubility | : | insoluble |

## SECTION 10. STABILITY AND REACTIVITY

| | | |
|---|---|---|
| Conditions to avoid | : | Processing temperature > 200 ℃ (32 ℉)<br>Avoid heating for prolonged periods above the recommended upper processing limit. |
| Incompatibility | : | None reasonably foreseeable. |
| Decomposition | : | Hazardous decomposition products Hydrogen chloride, Carbon monoxide, Organic acids, Aldehydes, Alcohols. |
| Polymerization | : | Polymerization will not occur.<br>During drying, cleaning and moulding, small amounts of hazardous gases and/or particulate matter may be released.<br>These may irritate eyes, nose and throat. |

## SECTION 11. TOXICOLOGICAL INFORMATION

Neoprene polychloroprene

| | | |
|---|---|---|
| Skin sensitization | : | Animal test did not cause sensitization by skin contact.<br>(Data on the product itself) |

Poly(2-chloro-1,3-butadiene)

| | | |
|---|---|---|
| Oral ALD | : | 20,000 mg/kg, rat |

Rosin

| | | |
|---|---|---|
| Skin irritation | : | Mild skin irritation |
| Eye irritation | : | irritant |

Talc (asbestos-free)

| | | |
|---|---|---|
| Dermal | : | Due to its physical properties, there is no potential for adverse effects. |
| Oral LD50 | : | > 5,000 mg/kg, rat |

| | | |
|---|---|---|
| Inhalation 5 h ALC | : | > 22 mg/l, rat<br>eye effects<br>Altered respiratory rate |
| Skin irritation | : | Due to its physical properties, there is no potential for adverse effects. |
| Repeated dose toxicity | : | Inhalation<br>No toxicologically significant effects were found. |
| Carcinogenicity | : | Tumors were noticed after prolonged inhalation toxicity testing on rats., The observed tumors do not appear to be relevant for men. |
| Mutagenicity | : | Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Animal testing did not show any mutagenic effects. |
| Toxicity to reproduction | : | Due to its physical properties, there is no potential for adverse effects. |
| Teratogenicity | : | Evidence suggests the substance is not a developmental toxin in animals. |

## SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Poly(2-chloro-1,3-butadiene)

: The substance is a polymer and is not expected to produce toxic effects.

Rosin

48 h EC50 : Daphnia magna (Water flea) 3.8 - 5.4 mg/l

Talc (asbestos-free)

: This product has no known eco-toxicological effects.

Additional ecological information : No data is available on the product itself.

## SECTION 13. DISPOSAL CONSIDERATIONS

| | | |
|---|---|---|
| Waste Disposal | : | If recycling is not practicable, dispose of in compliance with local regulations. Can be landfilled or incinerated, when in compliance with local regulations. Incinerate only in incinerators capable of scrubbing out acidic combustion products. |
| Environmental Hazards | : | Offer rinsed packaging material to local recycling facilities.<br>If recycling is not practicable, dispose of in compliance with local regulations. |

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### SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

### SECTION 15. REGULATORY INFORMATION

| | | |
|---|---|---|
| TSCA Status | : | In compliance with TSCA Inventory requirements for commercial purposes. |
| SARA 313 Regulated Chemical(s) | : | SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. |
| California Prop. 65 | : | WARNING! This product contains a chemical known in the State of California to cause cancer.<br>(E)-1,4-Dichloro-2-Butene<br><br>WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.<br>Toluene |
| PA Right to Know Regulated Chemical(s) | : | Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances):<br>Rosin |
| NJ Right to Know Regulated Chemical(s) | : | Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): No components present on the NJ state hazardous substance lists. |

### SECTION 16. OTHER INFORMATION

| | | |
|---|---|---|
| Restrictions for use | : | Do not use in medical applications involving permanent implantation in the human body. For other medical applications see DuPont Performance Elastomer's caution bulletin No. H-69237. |

Before use read DuPont Performance Elastomer's safety information.® Registered trademark of DuPont Performance Elastomers

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