



NEOPRENE SYNTHETIC RUBBER ALL IN SYNONYM LIST NEO025
NEO025 Revised 30-JUN-2007

Substance ID : DPESISGRP261

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Tradenames and Synonyms

NPR 2655

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont Performance Elastomers L.L.C.
Bellevue Park Corporate Center
300 Bellevue Parkway
Wilmington, Delaware 19809

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside the U.S.
302-774-1000)
Transport Emergency : CHEMTREC 1-800-424-9300(outside U.S.
703-527-3887)
Medical Emergency : 1-800-441-3637 (outside the U.S.
302-774-1139)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
POLY(2-CHLORO-1,3-BUTADIENE/2,3-DICHLORO-1,3-BUTADIENE)	25067-95-2	>80
POLY(2-CHLORO-1,3-BUTADIENE)	9010-98-4	<10
ROSIN	8050-09-7	<5
TALC	14807-96-6	<1
PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHTHENIC (<3% DMSO EXTRACT)	64742-52-5	<1

Components (Remarks)

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

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HAZARDS IDENTIFICATION

Potential Health Effects

Before using Neoprene Synthetic Rubber, read Bulletin "Guide for Safety in Handling and FDA Status of Neoprene Solid Polymers".

ACUTE OR IMMEDIATE EFFECTS: ROUTES OF ENTRY AND SYMPTOMS

2-CHLORO-1,3-BUTADIENE POLYMERS AND COPOLYMERS

INGESTION

One type of Neoprene was tested for oral toxicity in rats. The LD-50 is in excess of 20,000 milligram per kilogram body weight which is low toxicity. Other types of Neoprene are predicted to have the same low toxicity. Ingestion is not a probable route of exposure.

SKIN

Patch tests were run with four types of Neoprene on human volunteers. No skin reactions were shown. Results are predicted to be similar for other polymers.

EYE

Mechanical irritation only.

INHALATION

At processing temperatures above 200 deg C., 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.

CHRONIC EFFECTS

During processing and curing the polymers listed on this MSDS may evolve small amounts of N-nitrosodiethylamine and N-nitrosodibutylamine. These materials are classified as a carcinogen by NTP. In the laboratory, local exhaust kept the nitrosoamine concentration in air below 40 parts per trillion.

TALC

Short-term over-exposure by inhalation to Talc may cause irritation of the nose, throat and lungs with cough, difficulty breathing or shortness of breath. Long-term over-exposure may lead to chronic lung disease with impaired lung function and abnormal chest x-rays.

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Increased susceptibility to the effects of Talc may be observed in persons with pre-existing disease of the lungs.

Carcinogenicity Information

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

FIRST AID MEASURES

First Aid

INHALATION

If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician if symptoms persist.

SKIN CONTACT

Flush skin with water after contact. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

Not a probable route. However, in case of accidental ingestion, call a physician.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : >260 C (>500 F)
Method : Open cup

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.

Extinguishing Media

Water, Foam, Dry Chemical, CO2.

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Fire Fighting Instructions

Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Wear full protective equipment.

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

Sweep up to avoid slipping hazard.

Recover undamaged and minimally contaminated material for reuse and reclamation.

HANDLING AND STORAGE
-----**Storage**

Store in a cool place. Keep container tightly closed.

EXPOSURE CONTROLS/PERSONAL PROTECTION
-----**Engineering Controls**

Use only with adequate ventilation.

Personal Protective Equipment**EYE/FACE PROTECTION**

Wear safety glasses. Wear coverall chemical splash goggles and face shield when possibility exists for eye and face contact due to splashing or spraying of molten material. A full face mask respirator provides protection from eye irritation.

RESPIRATORS

A NIOSH/MSHA approved 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. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

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PROTECTIVE CLOTHING

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

Exposure Guidelines

Applicable Exposure Limits

ROSIN

PEL (OSHA) : None Established
TLV (ACGIH) : Sensitizer; reduce exposure to as low as possible
AEL * (DuPont) : None Established

TALC

PEL (OSHA) : 20 mppcf (~3.3 mg/m³), respirable as 8 Hr TWA
TLV (ACGIH) : 2 mg/m³, respirable dust, 8 Hr. TWA, A4
Notice of Intended Changes (2007)
1 mg/m³, 8 Hr. TWA, Respirable, A4
AEL * (DuPont) : 0.5 mg/m³, 8 & 12 Hr. TWA
respirable dust

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Solubility in Water : Negligible
Odor : Mild characteristic
Form : Chips
Color : Off white to tan
Specific Gravity : 1.22

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Temperatures above 200 C (392 F) .

Incompatibility with Other Materials

None reasonably foreseeable.

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Decomposition

Hazardous gases or vapors can be released, including carbon monoxide, hydrogen chloride (HCl), organic acids, aldehydes, alcohols.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

TALC

Talc

Oral LD50: > 5000 mg/kg in rats
Inhalation 5 hour ALC: > 22 mg/L in rats

Long-term exposure by ingestion to Talc caused no significant decrease in life span.

A single exposure by inhalation to high doses of Talc caused irregular respiration and lacrimation but no evidence of an inflammatory reaction. Repeated exposure caused no adverse effects on survival or histological changes. Long-term exposure in rats caused chronic inflammation, impaired pulmonary function and histopathological changes of the lungs.

One lifetime inhalation study reports an increased incidence of lung and adrenal tumors in rats exposed to Talc. The lung tumors and chronic inflammation occurred at dust levels which overwhelmed the animals lung clearance mechanism and, therefore, are of questionable biological relevance for man. The adrenal tumors are unlikely to be a direct effect of Talc exposure and are of questionable relevance. No increases in tumors were observed in mice. Talc has not caused developmental toxicity in animals. No animal data are available to define the reproductive toxicity of Talc. Tests have shown that Talc does not cause genetic damage in bacterial or mammalian cell cultures, or in animals. Animal data indicate that Talc does not cause permanent genetic damage in reproductive cells of mammals (does not cause heritable genetic damage).

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ECOLOGICAL INFORMATION

Ecotoxicological Information

AQUATIC TOXICITY:

No information is available.

DISPOSAL CONSIDERATIONS

Waste Disposal

Preferred options for disposal are (1) recycling, (2) incineration with energy recovery, and (3) landfill. The high fuel value of this product makes option 2 very desirable for material that cannot be recycled, but incinerator must be capable of scrubbing out acidic combustion products. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

TRANSPORTATION INFORMATION

Shipping Information

DOT

Proper Shipping Name : Not regulated.

REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Inventory Status : In compliance with TSCA Inventory requirements for commercial purposes.

State Regulations (U.S.)

STATE RIGHT-TO-KNOW

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated.

SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1 % OR MORE (0.01% FOR SPECIAL HAZARDOUS SUBSTANCES)- None known.

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WARNING - SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM- May contain trace amounts of ethyl benzene. Nitrosamines are not present in this product as sold, but small amounts may be formed from thermal decomposition of an additive in the presence of atmospheric NOX during processing. Nitrosamines are substances known to the State of California to be carcinogens.

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)- None known.

OTHER INFORMATION

Additional Information

MEDICAL USE: CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications see DuPont Performance Elastomers Medical Application Policy (H-69237).

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : G. W. WORTHAM
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Indicates updated section.