

MSDS FOR NON-STAINING NEOPRENE FLASHING

Date: March 12, 2003

1. IDENTIFICATION

Whom to Contact: Technical Director

Product Name: MN-60-2011
Chemical I.D.: Uncured Black
Neoprene Rubber

2. HAZARDOUS INGREDIENTS:	APPROX. #	OSHA/PEL	ACGIH/TLV	ADD'T. NOTES
A. Carbon Black	35.83	3.5mg/m3	3.5mg/m3	NA
B. Ethylene Thiourea	.22	NE	NE	NE
C. Zinc Oxide	1.70	15mg/m3	10mg/m3	Nuisance Dust
D. Precipitated Silica	6.82	NA	10mg/m3	NA

3. PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE & ODOR: Uncured Black Rubber - Characteristic Odor

SPECIFIC GRAVITY: 1.30 WATER SOLUBILITY: Not Soluble

4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not Determined FLAMMABLE LIMITS: LEL - N/A UEL - N/A

EXTINGUISHING MEDIA: Water, Foam, Dry Powder

SPECIAL FIREFIGHTING PROCEDURES: Firefighters to wear self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: Product does not present explosion hazard.

5. HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: INHALATION (*) SKIN (*) INGESTION ()

*During hot processing e.g., extruding, curing, milling, etc.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: No applicable information available.

ACUTE HEALTH HAZARDS AND EXPOSURE SYMPTOMS: None known or expected. Ingredients bound to rubber so inhalation exposure during handling not a problem. Exposure to volatiles released during hot processing such as curing may cause respiratory, nose or eye irritation in some people.

CHRONIC HEALTH HAZARDS AND EXPOSURE SYMPTOMS: Long term inhalation exposure to concentrated hot processing fumes have been reported to reduce lung function and cause chronic bronchitis.

CARCINOGENICITY: Ethylene Thiourea (ETU) has been shown to be a carcinogen and teratogen in experimental animals. Exposure to ETU from this product is unlikely.

EMERGENCY FIRST AID PROCEDURES

INHALATION: Not expected to be compound-related effect. Remove to fresh air. If not breathing, give artificial respiration, preferable mouth-to-mouth. If breathing difficult, give oxygen. Call a physician at once.

SKIN: Compound-related effects not expected to require first aid. If any irritation develops or persists, see a physician.

INGESTION: Compound-related effects not expected. If ingested, treat symptoms.

6. REACTIVITY DATA

STABLE: Yes **CONDITIONS TO AVOID:** None known.

INCOMPATIBILITY: No known materials to avoid.

HAZARDOUS DECOMPOSITION PRODUCTS: Typical products could include carbon monoxide, carbon dioxide, sulfur oxides and hydrocarbons.

Dimethylnitrosomine and Nitrosomorpholine See Section 9

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known.

7. PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS IN CASE OF SPILL: Pick or sweep up material and place in suitable container for disposal.

WASTE DISPOSAL METHOD: Dispose of in accordance with all local, state and federal laws and regulations.

8. SPECIAL PROTECTION INFORMATION

RESPIRATORY: Not normally needed for routine handling. If curing fumes are a problem, a NIOSH approved air purifying respirator with HEPA filters may be used. Select and use respirators in accordance with OSHA 1910.134 and the respirator manufacturer.

VENTILATION: Good manufacturing practice demands that inhalation of fumes and volatiles from further hot processing of rubber compounds must be avoided. Exhaust ventilation is usually necessary for operations which produce fumes, such as extrusion, curing, etc. Provide effective exhaust ventilation at all operations capable of producing fumes to prevent routine inhalation.

OTHER PROTECTIVE EQUIPMENT: Gloves are needed when handling hot rubber to prevent burns.

WORK AND HYGIENE PRACTICES: Maintain good personal hygiene when working with rubber compounds. Change soiled clothing regularly. Wash hands and other exposed skin surfaces thoroughly at all breaks and at the end of the work shift.

9. SPECIAL PRECAUTIONS

HANDLING AND STORAGE: None related to handling and storage.

OTHER PRECAUTIONS: A class of materials called nitrosamines are carcinogens in animals and therefore are suspected of causing cancer in humans. Because many rubber materials contain amine based ingredients, trace residual amounts (well below 0.1%) of nitrosamine are likely to exist in most rubber compounds as a result of being formed in earlier processing steps.

Subjecting this product to certain processing steps can form higher amounts of nitrosamines which are believed to present a health hazard. Avoid mixing or exposing this product with: nitrates, nitrites, nitrogen oxides or other nitrosamines as potentially hazardous levels of nitrosamines will be formed. Salt bath curing (using nitrate/nitrite sales) can be expected to produce hazardous amounts of volatile nitrosamines. Emissions from such processes must be exhausted. Employees must avoid inhaling fumes from hot rubber processing.

REFERENCE:

N/A Not Applicable
N/E Not Established

The preceding data is based on the ingredients combined in the product by Passaic Rubber Company. The recommendations and information contained herein are believed to be correct, but no representations, guarantees or warranties of any kind are made as to their accuracy, nor as to the suitability of the product for any particular applications, nor the results to be obtained therefrom. Because of the variations in methods, conditions and equipment used by customers in processing the product, Passaic Rubber Co. shall not be liable, and the customer assumes all risks and liabilities with respect to, any use, or processing and handling of the product by the customer. Passaic Rubber Company makes no warranties, either express or implied, and Passaic Rubber Co. specifically disclaims, any express or implied warranty, with respect to the product, of merchantability, fitness for any particular purpose or any other nature.

ADDITIONAL COMMENTS

Caution:

Processing fumes may cause adverse health effects. Avoid Inhalation of fumes, use with adequate ventilation. Maintain good personal hygiene when working with rubber compounds. Change soiled clothing regularly. Wash hands and other exposed skin surface thoroughly at all breaks and at the end of the work shift. Consult MSDS for additional and proper handling procedures.

(Respiratory and Skin)
Hazardous chemicals Hazard
In mixture

Product contains Ethylene Thiourea.
Possible cancer hazard. (Thyroid)