

## Rhenogran® ETU-80

Predispersed rubber chemicals and additives

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### Function

Accelerator for rapid vulcanization of chloroprene rubber and other diene rubbers

### Product description

Composition:	80 % N,N'-ethylene-thiourea 20 % elastomer binder and dispersing agents
Appearance:	white to beige granules
Density at 20 °C:	approx. 1.27 g/cm <sup>3</sup>
Physiological properties:	see safety data sheet

### Use

Mode of action:	Rhenogran ETU causes rapid and scorch-safe vulcanisation of chloroprene rubber. In other diene rubbers it serves as an activator and secondary accelerator for systems containing little or no sulfur. The vulcanisates, accelerated with Rhenogran ETU-80, show good aging and mechanical properties. Generally, blooming does not occur.
Processing:	The thermoplastic, fully compatible elastomer binder which is combined with special dispersing agents allows quick absorption and excellent dispersion in the rubber. In this way, optimal activity of the effective substance is assured.
Dosage:	0.1-2 phr
Applications:	Versatile accelerator for technical articles of all kinds based on CR

### Packaging

25 kg paper bag on 1000 kg skid

### Storage stability

In original sealed containers under cool and dry conditions 730 days from date of production

### Handling

For additional handling information on Rhenogran ETU-80 please consult current safety data sheet

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Our technical advice - whether verbal, in writing or by way of trials - is given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the products supplied by us as to their suitability for the intended processes and uses. The application, use and processing of the products are beyond our control and, therefore, entirely your own responsibility. Should, in spite of this, liability be established for any damage, it will be limited to the value of the goods delivered by us and used by you. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery.

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# ETU MB 75

## MATERIAL SAFETY DATA SHEET

updated 3/7/2012

<b>SECTION 1</b>	<b>SUBSTANCE IDENTITY AND COMPANY CONTACT INFORMATION</b>
PRODUCT NAME:	ETU MB 75.
CHEMICAL NAME:	A proprietary dispersion of ETU in a polymeric matrix.
CAS NUMBER:	96-45-7. 64742-52-5.
SUPPLIER:	ChemSpec, Ltd. 3570 Executive Drive, Suite 211 Uniontown, OH 44685 Phone: (330) 896-0355 Fax: (330) 896-9816
24 HOUR EMERGENCY ASSISTANCE:	Chemtrec: 800-424-9300 Non-Emergency: 330-896-0355

<b>SECTION 2</b>	<b>CHEMICAL COMPOSITION AND DATA ON COMPONENTS</b>
CHEMICAL NAME:	A proprietary dispersion of ETU in a polymeric matrix.
CAS NUMBER:	96-45-7. 64742-52-5.

<b>SECTION 3</b>	<b>HAZARDS IDENTIFICATION</b>
EMERGENCY OVERVIEW:	May be irritating to the skin, and skin absorption is possible. Talc applied to the pellets as a partitioning agent may cause respiratory irritation.
HMIS® HAZARD RATINGS:	Health: 2 Flammability: 1 Chemical Reactivity: 0 Personal Protection: B
*NOTE:	HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification on the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

<b>SECTION 4</b>	<b>FIRST AID MEASURES</b>
EYES:	Wash immediately and abundantly with water for 15 minutes while holding eyelids open. If irritation persists, seek medical attention.
SKIN:	Wash immediately and abundantly with soap and water. Seek medical attention if any discomfort continues.
INHALATION:	Move to fresh air. Seek medical attention if irritation develops or persists.
INGESTION:	Rinse mouth thoroughly with water. Seek medical attention if any discomfort continues. DO NOT INDUCE VOMITING.

<b>SECTION 5</b>	<b>FIRE-FIGHTING MEASURES</b>
EXTINGUISHING MEDIA:	Water spray, water fog, foams, dry chemicals, or carbon dioxide.
SPECIAL FIRE FIGHTING PROCEDURES:	Remove combustible products. Hose down gases/fumes/dust with water spray. Wear protective clothing and pressure-demand breathing apparatus.
UNUSUAL FIRE & EXPLOSION HAZARDS:	During a fire, irritating and/or toxic gases and aerosols from the decomposition/combustion products may be generated. Under lean oxygen conditions, carbon monoxide and irritating smoke may be produced.

<b>SECTION 6</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
PERSONAL PRECAUTIONS:	Avoid contact with skin and eyes, and inhalation of dust. Wear suitable protective clothing, gloves, and safety goggles.
ENVIRONMENTAL PRECAUTIONS:	Prevent access to drains, sewers, waterways, and soil.
METHODS FOR CLEANING UP:	Wear necessary protective equipment to prevent contact with skin or inhalation of dust. Avoid dust formation. Shovel into labeled, dry container. Cover and move. Destroy product in accordance with federal, state, and local regulations.

<b>SECTION 7</b>	<b>HANDLING AND STORAGE</b>
HANDLING:	Avoid spilling, skin, and eye contact. Avoid handling that leads to dust formation. Provide appropriate exhaust and ventilation at machinery. Provide appropriate device to rinse eyes.
STORAGE:	Protect from heat and moisture. Keep away from oxidizers and strong acids.

<b>SECTION 8</b>	<b>EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
INDUSTRIAL HYGIENE:	Provide sufficient ventilation in work areas.
RESPIRATORY PROTECTION:	Use efficient dust mask.
HAND PROTECTION:	Use gloves to minimize skin contact.
EYE PROTECTION:	Wear safety goggles.

<b>SECTION 9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
FORM:	White rubber pellets.
COLOR:	Gray.
SOLUBILITY IN WATER:	Negligible.
SPECIFIC GRAVITY (20°):	1.2 +/- .4
SOLVENTS:	Alcohols, acetone, and chloroform.

<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
CHEMICAL STABILITY:	Stable.
INCOMPATIBILITY:	Oxidants, strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS:	Sulfur, nitrogen, and carbon oxides, nitrogen amines, carbon disulfide, and toxic fumes.
HAZARDOUS POLYMERIZATION:	Will not occur.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
ACUTE ORAL TOXICITY IN RATS:	Not determined, but product is considered moderately toxic via ingestion.

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
No specific ecological data are available for this product.	

<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATIONS</b>
GENERAL:	Recover and reclaim or recycle, if practical. Not suitable for landfill. Dispose of in accordance with local, state, and federal regulations.

<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
DOT:	This product is not regulated by the U. S. Department of Transportation.
FREIGHT CODE:	171800 Rubber, crude
CLASS:	60
DSL (Canada):	Listed.
ICAO STATUS:	Not regulated.
IMDG STATUS:	Not regulated.

<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
TSCA (USA):	Listed on the TSCA inventory.
SARA TITLE III:	Hazardous: Acute / Chronic
FDA STATUS 21 CFR:	Regulated for Use under the following 21 CFR sections: 177.2600 - Rubber Articles Intended for Repeated Use. 175.105 - Components of Adhesives.

<b>SECTION 16</b>	<b>OTHER INFORMATION</b>
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Notice to reader:

*Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any law or regulation. It is the user's responsibility to determine for himself the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.*