

Custom Blending Int'l, Inc.
Material Safety Data Sheet

COMPANY IDENTIFICATION

Tradename: U.S. TIRE-TECH, INC. TIRESMART®

Manufacturer

Custom Blending Int'l, Inc.
2217 Garden Road
Pearland, TX 77581
281-485-3120

Distributor

U.S. Tire-Tech, Inc.
2217-1 Garden Road
P.O. Box 320
Pearland, TX 77588-0320
281-485-7524

Important Numbers

Product Information: 800-847-3832
Medical Emergency: 281-485-3120

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
*Ethylene Glycol	107-21-1	40-60
Water	7732-18-5	35-55
Twaron® Fibers	26125-61-1	100%
Calcium Carbonate	471-34-1	< 5
Sodium Carbonate	497-19-8	< 5
Polysaccharide	72121-88-1	< 5
Diethylene Glycol	111-46-6	< 3
Rubber (only in Merge 3000 product)		< 5

* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

HAZARDS IDENTIFICATION

Potential Health Effects

Inhalation of Ethylene Glycol Vapor: Drowsiness, Narcosis.

Attention: If the material is dried, the product could release airborne respirable fibrils. Animal studies indicate that prolonged overexposure to such fibrils has the potential for lasting lung damage.

Skin: Minimally irritating.

Eye: May cause slight eye irritation.

Ingestion: Can produce dizziness, headache, blindness, 500 ml could be fatal.

Carcinogenicity: None.

Signs and Symptoms of Exposure:

Central nervous system effects, particularly dizziness and an oscillatory movement of the eyeballs.

Aggravated by Exposure: Information not available.

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.

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FIRST AID MEASURES

First Aid

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

If swallowed, immediately give 2 glasses of water and induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.

INHALATION

Move to well ventilated area.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : None
Method : Cleveland Open Cup - COC

Hazardous gases/vapors produced in fire are oxides of carbon.

Extinguishing Media

Water Spray, Foam, CO2, Dry Chemical.

Fire Fighting Instructions

Wear self-contained breathing apparatus.

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.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean-Up

Soak up with sawdust, sand, oil dry or other absorbent material. Minimize dust generation.

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors, mist, and dust.

Minimize airborne fibrous dust by not allowing product to dry out.

Avoid contact with eyes, skin, or clothing.

Wash clothing after use.

Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

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HANDLING AND STORAGE - Continued

Handling (Physical Aspects)

Keep away from heat, sparks, and flames.

Storage

Keep container in a cool place.
Store in a well ventilated 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 or coverall chemical splash goggles.

RESPIRATORS

Where there is a potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

PROTECTIVE CLOTHING

Where there is a potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, and jacket.

Exposure Guidelines

Applicable Exposure Limits

Ethylene Glycol	
PEL (OSHA)	: None Established
TLV (ACGIH)	: Ceiling: 39.4 ppm, 100 mg/m ³ , aerosol, A4
Aramid Fibers	
PEL (OSHA)	: None Established
TLV (ACGIH)	: None Established
Calcium Carbonate	
PEL (OSHA)	: 15 mg/m ³ , total dust, 8 Hr. TWA 5 mg/m ³ , respirable dust, 8 Hr. TWA
TLV (ACGIH)	: 10 mg/m ³ , total dust, 8 Hr. TWA
Sodium Carbonate	
PEL (OSHA)	: None Established
TLV (ACGIH)	: None Established
Diethylene Glycol	
PEL (OSHA)	: None Established
TLV (ACGIH)	: None Established
Rubber	
PEL (OSHA)	: None Established
TLV (ACGIH)	: None Established

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PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point	: > 285° F (> 141° C)
Specific Gravity	: 1.1 - 1.23 (Water 1.0)
Melting Point	: Not Applicable.
Vapor Pressure	: 0.08 mm Hg
Vapor Density	: > 1 (Air = 1.0)
Evaporation Rate	: > 0.01 (Butyl Acetate = 1.0)
Color	: Green
Odor	: Slight
pH	: 8.0 to 10.0
Freezing Point	: -31° F (-35° C)
Solubility in Water	: High solubility
Form	: Liquid

STABILITY AND REACTIVITY

Chemical Stability: Stable.

Incompatibility with other materials: Incompatible or can react with strong oxidizers.

Decomposition: Decomposition will not occur.

Polymerization: Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

ETHYLENE GLYCOL

Eye: Animal testing indicates this material is a mild eye irritant.

Skin: LD50, rabbit: > 20 ml/kg

Animal testing indicates this material is a mild skin irritant.

Ingestion: LD50, female rat: 4000 mg/kg

Repeated exposure caused: Histopathological changes of the kidneys, bone marrow. Kidney effects with oxalate crystal deposition. Altered hematology: Decrease body weight. Long-term exposure caused: Kidney effects with oxalate crystal deposition. Histopathological changes of the kidneys, liver, blood vessels, testes, and sperm. Decreased body weight.

Inhalation: No deaths occurred in animals exposed to saturated vapors of the compound. Repeated exposure caused: Histopathological changes of liver and lungs. Eye irritation. Clouding of the eye (corneal opacity).

Carcinogenic, Developmental, Reproductive, and Mutagenic Effects:

To animal testing this material has not caused carcinogenicity. Reproductive data on adult animals show: Interference with reproduction only at levels which produce other toxic effects in the adult animal. Tests have shown this material to cause developmental toxicity in animals. This material has not produced genetic damage in bacterial cultures. There are reports indicating that this material does not produce genetic damage in some animal or mammalian cell culture tests; however, there are reports in the literature that suggest positive results.

DIETHYLENE GLYCOL

Skin absorption LD50	:	11.9 ml/kg (13,374 mg/kg) in rabbit
Oral LD50	:	20,760 mg/kg in rats

The compound is not a skin irritant, but an eye irritant. The effects in animals from single high doses by ingestion include lethargy, incoordination, tubular necrosis, abnormal kidney functions, increased urine output, altered enzyme levels and activity, and liver degeneration. Repeated ingestion exposures caused severe injury to the kidneys, liver damage, and crystalline deposits in the retina, kidney and liver. Long term ingestion exposure to high doses caused

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TOXICOLOGICAL INFORMATION - Continued

bladder stones and histologic changes in the pancreas. Tests in some animals demonstrate carcinogenic activity, possibly due to the chronic irritation produced by the bladder stones that occurred in these animals. Tests in bacterial or mammalian cell cultures demonstrate no mutagenic activity. Tests in some animals indicate that the compound may have developmental toxicity, but only at dose levels that are also maternally toxic. One published study has indicated some reproductive toxicity in mice given high oral doses.

ECOTOXICOLOGICAL INFORMATION

Ecotoxicological Information

Aquatic Toxicity
Ethylene Glycol
96-Hour LC50, Fathead Minnow: 49,000 mg/L

Diethylene Glycol
96-hour LC50, Mosquito Fish: >32,000 mg/L

DISPOSAL CONSIDERATIONS

Waste Disposal

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 : None. Not Regulated.

Note: Packages containing less than 5,000 lbs Ethylene Glycol are not regulated by DOT, IMO (for water), or IATA/ICAO (for air).

Shipping Information - Canada

TDG Class : Not Regulated.
ICAO : International Civil Aviation Organization
classification not required.
IMDG : International Maritime Dangerous Goods
classification not required.

REGULATORY INFORMATION

U.S. Federal Regulations

Canadian Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

This is not a WHMIS Controlled Product.

Acute : Yes
Chronic : Yes
Fire : No
Reactivity : No
Pressure : No

TSCA Inventory Status : Reported/Included.

LISTS:

SARA Extremely Hazardous Substance: No
CERCLA Hazardous Material : No
SARA Toxic Chemical : Yes

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OTHER INFORMATION

NFPA, NPCA-HMIS

NFPA Rating

Health : 1

Flammability : 1

Reactivity : 0

NPCA-HMIS Rating

Health : 2

Flammability : 1

Reactivity : 0

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:

Custom Blending Int'l, Inc.
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P.O. Box 320
Pearland, TX 77588-0320
(281) 485-3120
(281) 485-0589 Fax

End of MSDS