Safety Data Sheet

SDS Date: 04/18/2016

1. **Identification**
   1. **Product Identifier**

Product Identity U.S. Tire-Tech, Inc. Tiresmart TM

Alternate Names

* 1. **Relevant identified uses of the substance or mixture and uses advised against intended use.**

Application Method See Technical Data Sheet

* 1. **Details of the supplier of the Safety Data Sheet**

Manufacturer Distributor

Custom Blending Int’l, Inc. U.S. Tire Tech, Inc.

2217 Garden Road 2217-1 Garden Road

Pearland, TX 77581 Pearland, TX 77581

24 Hour Emergency Telephone No.: 281-485-3120

Customer Service: 800-847-3832

* 1. **Recommended Uses**

Puncture and Rim Tire Sealant

1. **Hazard(s) Identification**
   1. **Classification of the substance or mixture**

Skin Corr. 1;H315/H314 Causes sensitive skin irritation.

Eye Irrit. 1;H319 Causes eye irritation.

Skin Sens. 1;H317 May cause an allergic skin reaction.

Inhalation 1;H332 May cause respiratory distress

Aquatic Chronic Non-Toxic to aquatic life, no long lasting effects.

* 1. **Label Elements**

None Noted.

**GHS Classification**

|  |  |
| --- | --- |
| Flammable liquids | Category 1 |
| Acute toxicity, Oral | Category 1 |
| Acute toxicity, Inhalation | Category 1 |
| Acute toxicity, Dermal | Category 1 |
| Skin Irritation | Category 1 |
| Eye Irritation | Category 1 |

**GHS Label Elements, including precautionary statements:**

**Hazard Statements:**

|  |  |
| --- | --- |
| H315 | Causes skin irritation in sensitive individual |
| H319 | Causes eye irritation in sensitive individual |
| H332 | Harmful if inhaled (drown) |
| H302 | Harmful if swallowed |
| H373 | May cause damage to organs – eyes, skin, respiratory system, central nervous system |

**Precautionary Statements:**

|  |  |
| --- | --- |
| P280 | Wear Protective gloves/protective clothing |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P301 | May be aspiration hazard. |
| P312 | May be hazardous through skin contact |
| P330 | Rinse mouth if exposed. |
| P304 | Dried fibers inhaled cause lung damage |

**Potential Health Effects:**

|  |  |
| --- | --- |
| **Eyes** | Redness and itching and/or slight burning sensation may indicate excessive exposure. |
| **Inhalation** | Same as inhaling contaminated water with possibility of pneumonia. |
| **Skin** | Redness and itching and/or slight burning sensation may indicate excessive exposure. Not harmful if absorbed through skin. May cause skin irritation. |
| **Ingestion** | Gastrointestinal upset. Nausea, vomiting, diarrhea. |

**NFPA Ratings HMIS Ratings**

|  |  |
| --- | --- |
| **Health** | 1 |
| **Flammability** | 1 |
| **Reactivity** | 0 |
| **Specific Hazard** | Not Available |

|  |  |
| --- | --- |
| **Health** | 1 |
| **Fire** | 1 |
| **Reactivity** | 0 |
| **Personal** | H |

1. **Composition/Information on Ingredients**

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Ingredient/Chemical Designations | Weight % | CAS Number | GHS Classification | Notes  (ACGIH, TLV) |
| Ethylene Glycol  Water  TwaronR Fibers  Calcium Carbonate  Sodium Carbonate  Polysaccharide  Diethylene Glycol  Rubber | 40-60  35-55  <5  <5  <5  <5  <3  <5 | 107-21-1  7732-18-5  26125-61-1  471-34-1  497-19-8  72121-88-1  111-46-6 | 1  0  1  1  1  0  1  0 | 39.4 mg/m3  -10.8 mg/m3  10 mg/m3 |

No SARA 313 Reportable

No OSHA PEL-TWA, OSHA-PEL STEL, or OSAA PEL CEILING

No ACGIH, TLV-TWA, OSHA-PEL STEL, or OSAA PEL CEILING

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.

**4. First Aid Measures**

**4.1. Description of first air measures**

General In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

Inhalation Remove to fresh air, keep patient warm and at rest. If breathing is

irregular or stopped, give artificial respiration. If unconscious, place in the

recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes Irrigate copiously with clean water for at least 15 minutes, holding the

eyelids apart. Remove contact lens, if present and easy to do. Continue

rinsing cautiously. Seek medical attention.

Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Wash contaminated clothing before resuse.

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

**4.2 Most important symptoms and effects, both acute and delayed**

Overview Route(s) of Entry: Skin, Ingestion, Inhalation

Health Hazards (Acute and Chronic):

Drying of skin, dermatitis, gastro-intestinal upset, diarrhea, and vomiting, shortness of breath, pneumonia.

Signs and Symptoms of Exposure: Dermatitis

Medical Conditions (Generally Aggravated by Exposure): Skin disease

See Section 2 for further details.

Eyes Causes eye irritation.

Skin May cause an allergic skin reaction. Causes skin irritation.

Inhalation Respiratory tissue irritation or allergic reaction, Medical conditions (11), Respiratory disease and conditions.

See Section 2 for further details.

1. **Fire Fighting Measures**

|  |  |
| --- | --- |
| **Suitable (and unsuitable) extinguishing media** | Non-Flammable liquid. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide on fires involving this product. Use appropriate media on adjacent fires. Cool unopened containers with water. |
| **Special protective equipment and precautions for firefighters** | Wear self-contained, approved breathing apparatus and full-protective clothing, including eye protection and boots. |
| **Specific hazards arising from the chemical** | Emits toxic fumes (carbon oxides) under fire conditions. (See also Stability and Reactivity section). Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. |

1. **Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Put on appropriate personal protective equipment (see section 8).

**6.2 Environmental precautions**

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

**6.3 Methods and material for containment and cleaning up**

Dilute with water and prevent loss into environment by using absorbents, and diking to contain. Collect material for disposal.

1. **Handling and Storage**
   1. **Precautions for safe handling -** See Section 2 for further details – [Prevention].
   2. **Conditions for safe storage, including any incompatibilities**

Handle containers carefully to prevent damage and spillage.

Store away from strong acids or oxidizers.

Incompatible materials: Strong Acids, oxidizing agents.

See Section 2 for further details – [Storage].

* 1. **Specific end use(s**) - No data available.

1. **Exposure Controls and Personal Protection**
   1. **Control parameters**

**Exposure – None Known**

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit.

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during X minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels.

CEIL: Ceiling

**Personal Protection**

|  |  |
| --- | --- |
| **Eyes** | Wear chemical safety glasses or goggles. |
| **Inhalation** | Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator. |
| **Skin** | Wear nitrile or rubber gloves, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| **Other** | Not available. |

**Carcinogen Data – No Data Available**

**8.2 Exposure Controls**

**Respiratory S**tandard Ventilation. NIOSH/MSHA approved respiratory protection.

**Eyes** Face shield/goggles.

**Skin**  Slicker suits. Rubber or Neoprene gloves.

**Engineering Controls**  Local Exhaust – Recommended.

**Other Work Practices** Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See Section 2 for further details – [Prevention]:

1. **Physical and Chemical Properties**

|  |  |
| --- | --- |
| **Appearance** | Green liquid |
| **Odor** | Slight |
| **Odor threshold** | Not Measured |
| **pH** | 8.0-10.0 |
| **Melting Point/Freezing Point** | Liquid/-31oF (~35oC) |
| **Initial Boiling Point and Boiling Range** | >285 oF (>141oC) |
| **Flash Point** | >212 oF |
| **Evaporation Rate (Ether = 10**  **Flammability (solid, gas)**  **Upper/Lower Flammability or explosive limits**  **Vapor Pressure (Pa)**  **Vapor Density**  **Specific Gravity**  **Solubility in Water**  **Partition coefficient n-octanol/water (Log Kow)**  **Auto-ignition temperature**  **Decomposition temperature**  **Viscosity (cSt) @ 100 F** | N/A Water based  Not Flammable  Lower Explosive Limit: N/A  Upper Explosive Limit: N/A  0.08  >1 (Air = 1.0)  1.1-1.23 (Water = 1.0)  High Solubility  Not Measured  N/A  >450oF  Varies (Fibers) |

**9.2 Other Information** - No other relevant information.

1. **Stability and Reactivity**
   1. **Reactivity** – Hazardous polymerization will not occur.
   2. **Chemical Stability** – Stable under normal circumstances.
   3. **Possibility of hazardous reactions** – No data available.
   4. **Conditions to avoid** – Do not mix with alkalis or acids.
   5. **Incompatible materials** – Strong acids, oxidizing agents.
   6. **Hazardous decomposition products** – Oxides of Carbon

**11.0 Toxicological Information**

**Acute Toxicity – None Known**

|  |  |  |
| --- | --- | --- |
| **Classification**  Acute toxicity (oral)  Acute toxicity (dermal)  Acute toxicity (inhalation)  Skin Corrosion/irritation  Serious eye damage/irritation  Respiratory Sensitization  Skin sensitization  Germ cell mutagenicity  Carcinogenicity  Reproductive toxicity  STOT- Single exposure  STOT- Repeated exposure  Aspiration hazard | **Category**  --  --  --  1  1  1  1  --  --  --  --  --  -- | **Hazard Description**  Not Applicable  Not Applicable  Not Applicable  May cause skin burns and eye damage  Causes eye irritation  May cause an allergic reaction  May cause an allergic skin reaction  Not Applicable  Not Applicable  Not Applicable  Not Applicable  Not Applicable  Not Applicable |

**12. Ecological Information**

**12.1 Toxicity**

**Ethylene Glycol**

**Eye:** Animal testing indicates this material is a mild eye irritant. **Skin**: LD50, Rabbit: >20ml/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 (13,324 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 does 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 does caused 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.

Environmental Fate: When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is not expected to evaporate significantly. When released into water, this material is expected to readily biodegrade. When released into the water, this material is expected to have a half-life between 1 and 10 days. This material is not expected to significantly bioaccumulate. This material has a log octanol-water partition coefficient of less than 3.0. When released into the air, this material is expected to have a half-life between 1 and 10 days.

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

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

**12.2 Persistence and degradability**

There is no data available on the preparation itself.

**12.3 Bioaccumulative potential**

Not Measured

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

This product contains no PBT/vPvB chemicals.

**12.6 Other adverse effects**

No data available.

**13. Disposal Considerations**

**13.1 Waste Disposal Methods**

Observe all federal, state, and local regulations when disposing of this substance. Under federal regulations it is the responsibility of the user of the product to determine at the time of disposal, whether the material meets the criteria for hazardous waste.

Avoid contaminating ground and surface water. Prevent material from routinely entering sewer and ground water systems. Do not flush large volumes to drain. Recover for land use.

**14. Transport Information**

**DOT (Domestic Surface IMO/IMDG ICAO/IATA**

**Transportation) (Ocean Transportation)**

**14.1 UN Number** Not Applicable Not Regulated Not Regulated

**14.2 UN Proper** Not Regulated Not Regulated Not Regulated

**Shipping Name** TireSmart TireSmart

**14.3 Transport Hazard DOT Hazard Class**: **IMDG**: Not Applicable **Air Class:**

**Class(es)**  Not Applicable **Sub Class:**  Not Applicable Not Applicable

**14.4 Packing Group** Not Applicable Not Applicable Not Applicable

**14.5 Environmental Hazards**

**IMDG** None Known

**14.6 Special precautions for user**

No further information

**15. Regulatory Information**

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control**  All components of this material are either listed or exempt from listing on

**Act (TSCA)** the TSCA Inventory.

**WHMIS Classification** Not controlled product

**US EPA Tier II Hazards**

**Fire**: No

**Sudden Release of Pressure:** No

**Reactive:** No

**Immediate (Acute):** Yes

**Delayed (Chronic):** No

**EPCRA 311/312 Chemicals and RQs (lbs.**): Packages containing less that 5,000 lbs. Ethylene Glycol are not regulated by DOT, IMO (for water), or IATA/ICAO (for air).

**EPCRA 302 Extremely Hazardous**:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPRCA 313 Toxic Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 – Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 – Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 – Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 – Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**New Jersey RTK Substances (>1%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Pennsylvania RTK Substances (>1%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

RMP/PSM Not Listed

CERCLA - RR Not Listed

FIFRA No documented information available

RCRA-CODE No hazardous waste identification

**16. Other Information**

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

**This is the first version in the SDS Format. Listings of changes from previous versions in other formats are not applicable.**



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