

Issue Date: 07-Feb-2017

Supersedes Date: 03-Jun-2015

1. IDENTIFICATION

Product Identifier

Product Name Tuffner® Pre-Tape Spray, Aerosol

Other means of identification

UN/ID No UN1950

Recommended use of the chemical and restrictions on use

Recommended Use Tape Adherent

Details of the supplier of the safety data sheet

Supplier Address

Mueller Sports Medicine, Inc.
One Quench Drive
Prairie du Sac, WI 53578

Emergency Telephone Number

Company Phone Number Phone: (608) 643-8530 or 1-800-356-9522
Fax: (608) 643-2568 or 1-800-852-4334

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Clear aerosol

Physical state Liquid

Odor Alcohol

Classification

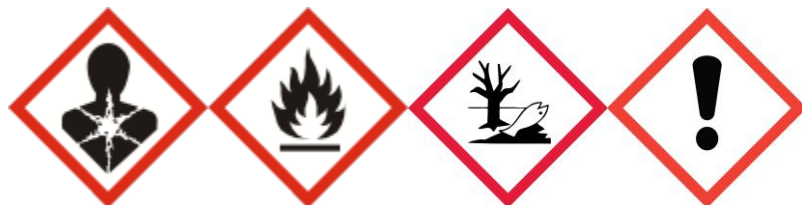
| | |
|--|-------------------------------|
| Flammable Aerosols | Category 1 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2 |
| Sensitization, skin | Category 1 |
| Specific target organ toxicity, single exposure | Category 3 (narcotic effects) |
| Hazardous to the aquatic environment, acute hazard | Category 2 |
| Hazardous to the aquatic environment, long-term hazard | Category 2 |

Signal Word

Danger

Hazard statements

Extremely flammable aerosol. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Pressurized container: May burst if heated. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.



Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves. Wear eye/face protection.

Precautionary Statements – Response

If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Specific treatment (see this label). If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information

89% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 89% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|------------------------------|------------|----------|
| Petroleum Gases, Liquefied | 68476-85-7 | 35 - 40 |
| Acetone | 67-64-1 | 20 - 30 |
| n-Heptane | 64742-49-0 | 15 - 20 |
| Isopropyl Alcohol | 67-63-0 | 5 - 15 |
| Partially Hydrogenated Resin | 65997-06-0 | 5 - 10 |

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures**General Advice**

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Wash contaminated clothing before reuse.

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin Contact

Remove contaminated clothing immediately and wash skin with soap and water. Remove contaminated clothing. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion

In the unlikely event of swallowing contact a physician or poison control center. Rinse

mouth.

Most important symptoms and effects, acute and delayed

Symptoms

Dermatitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam. Water fog. Carbon dioxide (CO₂). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable Extinguishing Media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising from the Chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Remove all possible sources of ignition in the surrounding area. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

Methods and material for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Prevent product from entering drains. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE**Precautions for safe handling**

Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains. For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Refrigeration recommended. Keep out of the reach of children.

Incompatible Materials

Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA Table Z-1 Limits for Air Contaminants | NIOSH Pocket Guide to Chemical Hazards |
|------------------------------|--|--|--|
| Isopropyl Alcohol 67-63-0 | TWA: 400 ppm (983 mg/m ³) STEL: 500 ppm (1230 mg/m ³) | PEL: 400 ppm (980 mg/m ³) | TWA: 400 ppm (980 mg/m ³) STEL: 500 ppm (1225 mg/m ³) IDLH: 2000 ppm [10% LEL] |

TLV: Threshold Limit Value TWA: Time Weighted Average STEL: Short Term Exposure Limit PEL: Permissible Exposure Limit
IDLH: Immediately Dangerous to Life or Health

Biological Limit Values

ACGIH Biological Exposure Indices

| Components | Value | Determinant | Specimen |
|------------------------------|---------|-------------|----------|
| Isopropyl Alcohol 67-63-0 | 40 mg/L | Acetone | Urine |

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Chemical respirator with organic vapor cartridge and full face piece.

Skin and Body Protection Wear appropriate chemical resistant clothing and gloves.

Respiratory Protection Chemical respirator with organic vapor cartridge and full face piece.

General Hygiene Considerations When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|---------------|-----------------------|---------------|
| Physical state | Liquid | Form | Aerosol |
| Appearance | Clear aerosol | Odor | Alcohol |
| Color | Clear | Odor Threshold | Not available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---|----------------------|--------------------------------|
| pH | Not available | |
| Melting Point/Freezing Point | -139.9 °F / -95.5 °C | Estimated |
| Boiling Point/Boiling Range | 180.5 °F / 82.5 °C | Estimated |
| Flash Point | 53.6 °F / 12.0 °C | Estimated |
| Evaporation Rate | Not available | |
| Flammability (Solid, Gas) | Not available | |
| Flammability or Explosive Limits | | |
| Flammability Limit, Upper | 12% | Estimated |
| Flammability Limit, Lower | 2.5% | Estimated |
| Explosive Limit, Upper | Not available | |
| Explosive Limit, Lower | Not available | |
| Vapor Pressure | 3150.6 hPa | Estimated |
| Vapor Density | Not available | |
| Relative Density | Not available | Estimated |
| Water Solubility | Not available | |
| Solubility in other solvents | Not determined | |
| Partition Coefficient | Not available | |
| Auto-ignition Temperature | 458 °F / 236.67 °C | Estimated |
| Decomposition Temperature | Not available | |
| Viscosity | Not available | |
| <u>Other Information</u> | | |
| Density | 6.10 lbs/gal | Estimated |
| Flammability Class | Flammable IB | Estimated |
| Heat of Combustion (NFPA 30B) | 8.96 kJ/g | Estimated |
| Percent Volatile | Not determined | |
| Specific Gravity | 0.73 | Estimated |
| VOC Content (Weight %) | 100% | Estimated |

10. STABILITY AND REACTIVITY

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical Stability

Material is stable under normal conditions.

Possibility of Hazardous Reactions

No dangerous reaction known under conditions of normal use.

Conditions to Avoid

Avoid temperatures exceeding the flash point. Avoid contact with incompatible materials.

Incompatible Materials

Acids. Strong oxidizing agents. Isocyanates. Chlorine.

Hazardous Decomposition Products

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|---------------------|--|
| Eye Contact | Causes serious eye irritation. |
| Skin Contact | Causes skin irritation. May cause an allergic skin reaction. |
| Inhalation | Prolonged inhalation may be harmful. May cause drowsiness and dizziness. Headache, nausea, vomiting. |
| Ingestion | Expected to be a low ingestion hazard. |

Product: Mueller Tuffner Pre-Tape Spray Aerosol (CAS Mixture)

| Acute | Species | Test Results |
|------------|---------|----------------------------|
| Oral LD50 | Mouse | 14866.8184 mg/kg estimated |
| | Rat | 26.911 g/kg estimated |
| Other LD50 | Mouse | 8640.1377 mg/kg estimated |
| | Rat | 1.0476 g/kg estimated |

Information on physical, chemical and toxicological effects

| | |
|-----------------------|---|
| Symptoms | Dermatitis. May cause drowsiness and dizziness. Headache, nausea, vomiting. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. |
| Acute toxicity | Narcotic effects. May cause an allergic skin reaction. |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|----------------------------------|--|
| Carcinogenicity | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. |
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Respiratory sensitization | Not available. |
| Skin sensitization | May cause an allergic skin reaction. |

Chronic effects Prolonged inhalation may be harmful.

**Specific target organ toxicity –
Single exposure** May cause drowsiness and dizziness.

Repeated exposure Not classified.

Aspiration hazard Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

| Aquatic | Species | Test Results |
|----------------|---------|-----------------------------------|
| Crustacea EC50 | Daphnia | 662.8571 mg/L, 48 hours estimated |
| Fish LC50 | Fish | 5.8943 mg/L, 96 hours estimated |

Persistence/Degradability

No data is available on the degradability of this product.

Bioaccumulation

No data available.

| Chemical Name | Partition Coefficient n-octanol / water (low Kow) |
|-------------------|---|
| Isopropyl Alcohol | 0.05 |

Mobility

No data available.

Other Adverse Effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Empty containers or liners may retain some product residues. Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated Packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

| | |
|-----------------------------|---|
| UN/ID No | UN1950 |
| Proper Shipping Name | UN1950, AEROSOLS, 2.1, LIMITED QUANTITY |
| Hazard Class | 2.1 |

IATA

UN/ID No UN1950
 Proper Shipping Name UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY, Y203
 Hazard Class 2.1

**IMDG**

UN/ID No UN1950
 Proper Shipping Name UN1950, AEROSOLS (HEPTANE), 2.1, LIMITED QUANTITY, MARINE POLLUTANT, EMS
 F-D, S-U
 Hazard Class 2.1



15. REGULATORY INFORMATION

US Federal Regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

CERCLA Hazardous Substance List (40 CFR 302.4)

ISOPROPYL ALCOHOL (CAS 67-63-0) Listed.

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | No |
| Fire Hazard | Yes |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

U.S. State Right-to-Know Regulations**Massachusetts RTK - Substance List**

ISOPROPYL ALCOHOL (CAS 67-63-0)

New Jersey Worker and Community Right-to-Know Act

ISOPROPYL ALCOHOL (CAS 67-63-0)

Pennsylvania Worker and Community Right-to-Know Law

ISOPROPYL ALCOHOL (CAS 67-63-0)

Rhode Island RTK

ISOPROPYL ALCOHOL (CAS 67-63-0)

California Proposition 65

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

16. OTHER INFORMATION

| | | | | |
|--------------------|-----------------------|---------------------|-------------------------|----------------------------|
| <u>NFPA</u> | Health Hazards | Flammability | Instability | Special Hazards |
| | Not determined | Not determined | Not determined | Not determined |
| <u>HMIS</u> | Health Hazards | Flammability | Physical hazards | Personal Protection |
| | Not determined | Not determined | Not determined | Not determined |

Issue Date: 07-Feb-2017
Supersedes Date: 03-Jun-2015
Revision Note: This document was prepared to be consistent with the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer
 The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet