

MSDS: T&S Insta Cool Spray

Chemical Product Section

Product Name: T&S Insta Cool Spray

Product Number: 7000333

Manufacturer's Rep: T&S Dental & Plastics, A Division of Keystone Industries
 52 West King Street
 Myerstown, PA 17067
 Phone: 717-866-7571

Composition/Information on Ingredients

Chemical: 1,1,1,2-Tetrafluoroethane

CAS No.

811-97-2

Weight%

100

OSHA Hazardous Components (29 CFR 1910.1200): Exposure Limits 8 hours TWA (PPM)

OSHA PEL	ACGIH TLV	Supplier
NIF		1000

Hazard Identification

Emergency Overview:

Potential Health Effects:

- **Inhalation:** Major potential route of exposure. Minimal effects observed below 1000 ppm. Dizziness, drowsiness, and throat irritation possible at levels above 1,000 ppm. Unconsciousness and death at levels above 10000 ppm. Blood pressure depression, cardiac sensitization, and ventricular arrhythmia can result from exposure to near-anesthetic levels.
- **Eyes:** Liquid can cause slight, temporary irritation with slight temporary corneal injury. Vapors can irritate eyes.
- **Skin:** Prolonged or repeated contact with liquid can cause freezing of skin tissues, defatting, and dermatitis.
- **Ingestion:** Single dose toxicity is low to moderate. If vomiting occurs the liquid can be aspirate into lungs, which can cause chemical pneumonia and systemic effects. Human psychotropic, gastrointestinal, and central nervous system effects possible.

First Aid Measures

- **Inhalation:** Move to fresh air in case of accidental inhalation of vapors. If victim has stopped breathing, give artificial respiration. Call for prompt medical attention.
- **Eye Contact:** Flush eyes with large amounts of water for 15 minutes or until irritation subside. If irritations persist, get medical attention.
- **Skin Contact:** Remove contaminated clothing (including shoes) and wash before reuse. Flush with large amounts of water. Use soap if available. If irritation persists, seek medical attention.
- **Ingestion:** Do not induce vomiting unless directed by physician. If conscious and alert, give two glasses of water. Seek medical attention immediately.

Fire Fighting Measures

- **Flashpoint & Method:** None TCC Method
- **Flammable Limits:** LEL: N/A UEL: N/A

- **General Hazard:** Aerosol cans may erupt with force at temperatures about 120 degrees F.
- **Fire Fighting Instructions:** Fire fighters should wear self-contained, positive-pressure breathing apparatus and avoid skin contact.
- **Fire Fighting Equipment:** Water, foam, dry chemical, and carbon dioxide.
- **Hazardous Combustion Products:** Smoke, fumes and oxides of carbon.

Accidental Release Measures

Land Spill: Evacuate area. Ventilate area well and avoid breathing vapors. Vapor concentration will be highest along floor and in low-lying areas. Pick up liquid on suitable absorbent and store in sealed containers.

Handling and Storage

Storage Temperature: Ambient

Storage Pressure: Atmospheric

General: Keep container closed when not in use. Store in cool, well-ventilated place out of direct sunlight and away from incompatible materials. (See stability and reactivity data) Follow all MSDS and Label warnings even after container is emptied.

Exposure Control/Personal Protection

Engineering controls: Local Exhaust ventilation acceptable.

Personal Protection:

- **Respirator:** If concentrations are over the exposure limit and are known, air-purifying respirator with Organic Vapor Cartridges may be acceptable. Refer to cartridges for acceptable levels. If concentrations are over exposure limit and are unknown, use a supplied air respirator.
- **Hand Protection:** Gloves recommended - Solvex, Butyl, Natural Latex, Neoprene, Buna, Cotton Jersey
- **Eye Protection:** Safety Glasses

Physical and Chemical Properties

Density: 1.202

pH: 7-8

Boiling Point: -16C/-27F

% Volatile: 100

Freezing Point: NIF

% Solids: 0

Vapor Density (Air=1): 3.0

Evaporation Rate (h₂O=1): >1

Solubility in Water: 0

Viscosity: N/A

Molecular Weight: N/A

Physical State: liquid

Non-Exempt VOC (g/l): 0

Odor: NIF

Appearance: Clear water-white liquid with low odor

Stability and Reactivity

General: Stable

Incompatible Materials and conditions to avoid: Contact with open flame, heat. Reactive alkali metals, strong acids & bases.

Hazardous Decomposition: Hydrogen fluoride, carbon dioxide, and carbon monoxide

Toxicological Information

Results of Component Toxicity Test Performed: Information not available

Human Experience: Information not available

This product does not contain any compounds listed by NTC or IARC or regulated by OSHA as a carcinogen.

Ecological Information

Further Information: Information not available.

Disposal Considerations

RCRA 40 CFR 261 Classification: Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Transportation Information**U.S. DOT Information:**

Proper Shipping Name: Consumer Commodity ORM-D
Hazard Class: N/A
Packaging Group: N/A
UN Number: N/A
Limitations: must place consumer commodity ORM-D on box

IATA

Proper Shipping Name: Consumer Commodity ID8000
Hazard Class: N/A
UN Number: ID8000
Limitations: A copy of the DOT-E 10232 must be attached to the shipment CARGO AIRCRAFT ONLY.
Domestic Shipments only. When shipping International contact Tech Spray shipping dept.

IMO

Proper shipping name: Aerosols
Class: 2.2
UN Number: UN1950
Packaging Group: N/A
EMS: 2-13
MFAG: 350
Marine Pollutant: N/A
Canadian TDG: N/A
IMDG Page: 2102
Limitations: Must have NON-FLAMMABLE LABEL

Regulatory Information

- United States Federal Regulations: MSDS complies with OSHA Hazard Communication Rule, 29 CFR 1910.1200.
- CERCLA/SUPERFUND, 40 CFR 117, 302: None of the chemicals are Super fund hazards
- SARA Superfund and Reauthorization Act of 1986 Title II Sections 302, 311, 312 and 313:
Section 302 - Extremely hazardous substances (40 CFR 355): None of the chemicals are Section 302 hazards.
- Section 311/312 - Material Safety Data Sheet Requirements (40 CFR 370): By our evaluation this product is hazardous. It should be reported under the following EPA hazard: Immediate (acute) health hazard

Section 313 - List of Toxic Chemicals (40 CFR 372): This product contains the following chemicals (at levels of 1% or greater) which are found on the 313 list of Toxic Chemicals.

Chemical	C.A.S. No.	Weight%
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None of the chemicals are 313 Toxic chemicals

Toxic Substance Control Act (TSCA): All substances are TSCA listed.

Resource Conservation and Recovery Act (RCRA 40 CFR 261): Subpart C & D: Refer to Section 11 for RCRA classification.

Federal Water Pollution Control Act, Clean Water Act, 40 CFR 401.15 (Formerly section 307), 40 CFR 116 (Formerly section 311): This product contains the following chemicals which are listed

Chemical	C.A.S. No.	Weight%
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Clean Air Act: No information

State Regulations: California Proposition 65: This product contains the following ingredients which appear on the California proposition 65 list:

Chemical	C.A.S. No.	Weight%
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None of the chemicals are on the Proposition 65 list

International Regulations:

Canada WHMIS: NIF

Europe EINECS numbers: Tetrafluoroethane; 811-97-2

Other Information

- Label Information:

European risk and safety phrases: s2, s23, s24/25, s51

European Symbols needed: none

Canadian WHMIS Symbols: NIF

- NFPA Hazard Rating: 0-Fire; 1-Health; 1-Reactivity

- Revision Dates, Sections, Revised by:

27-Jul-94, Converted to ANSI Standard, B. Riffel

01-Aug-96, Updated Shipping information, L. Humphrey

07-Oct-96, Updated section 11, B. Riffel

14-Jan-97, Updated Shipping Information, R. Prichard

- Abbreviations used in this document: Ne: Not established, Na - Not applicable, NIF - No information found.

- References:

Code of Federal Regulations - CFR

The Sigma-Aldrich Library of Regulatory and Safety Data

Chemical Guide and OSHA Hazard Communication Standard

Various Federal, State & Local Regulations

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.