

SAFETY DATA SHEET



SECTION 1: IDENTIFICATION

COMPANY NAME:	AMERICAN INDUSTRIES, INC.	PRODUCT NAME:	T ³
ADDRESS LINE 1:	4300 Kahn Drive, Box 1405	PRODUCT CODE:	1658
ADDRESS LINE 2:	Lumberton, NC 28359-1405 USA	PRODUCT USE:	Hi-tech Penetrant & Lubricant
TELEPHONE NUMBERS:	800-753-5153 (or) 910-738-7224	SDS FILE ID:	1658.06
EMERGENCY PHONE:	CHEMTREC 1-800-424-9300	SDS DATE:	2025-06-06
		REPLACES VERSION DATED:	2018-10-02 <i>and all prior versions</i>

SECTION 2: HAZARDS IDENTIFICATION

Classification: Flammable Aerosol: Category 2 Liquefied Gas

Label elements



Signal word	Warning
Hazard statement:	Flammable Aerosol. Contains gas under pressure; May explode if heated. This product contains the following percentage of chemicals of unknown toxicity: N/A
Precautionary statement	Keep away from heat, sparks, open flames, and 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. Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C). Store in a well-ventilated place.
Hazard(s) not otherwise classified (HNOC)	N/A

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>CAS number</u>	<u>%</u>
1,1-Difluoroethane	75-37-6	70-80

SECTION 4: FIRST AID MEASURES

Inhalation	Move to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration or at any sign of loss of consciousness seek immediate medical attention.
Skin contact	Wash thoroughly with soap and water for 15 minutes. Remove contaminated clothing and shoes immediately. Seek medical attention if irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Ingestion	Do not induce vomiting unless directed by medical authority. Seek immediate medical attention. Rinse mouth with water. Do not induce vomiting unless directed by medical authority. Seek medical attention.
Acute health hazards	May cause defatting and dermatitis of the skin. Contact with eyes may cause irritation, redness, tearing. Inhalation of mist or vapors may cause respiratory irritation, drowsiness or dizziness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic health hazards	None known
Note to physician	Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media	Dry chemical, carbon dioxide, water spray, alcohol-resistant foam.
Unsuitable extinguishing media	Water jets or streams.

Special firefighting procedures	Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.
Unusual fire and explosion hazards	FLAMMABLE. Contents under pressure. Exposure to temperatures above 120 °F may cause bursting. Keep away from heat, sparks, open flames and other sources of ignition.
Hazardous combustion products	Oxides of carbon, fluorinated hydrocarbons and hydrogen fluoride.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal protective equipment	Refer to section VIII for proper Personal Protective Equipment.
Spill	Eliminate all sources of ignition. Absorb with non-combustible material like vermiculite, sand or earth. Place waste in proper containers for waste disposal.
Waste disposal	Dispose of in accordance with local, state and federal regulations. Do not reuse, puncture or incinerate container. Wrap container and place in trash collection.
RCRA Status	Waste likely considered hazardous waste U161 (methyl isobutyl ketone), under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION 7: HANDLING AND STORAGE

Handling and storage	Do not use or store near heat, open flames or other sources of ignition. Wear proper personal protective equipment when using this product. Avoid contact with skin, eyes and clothing. Do not inhale mist or vapor. Do not use or store with strong oxidizers. Protect from sunlight. Store in a well ventilated area. Do not expose to temperatures exceeding 50 °C/122 °F. Pressurized container: Do not pierce or burn, even after use. Wash hands thoroughly after handling.
Other precautions	Read and follow the directions on the product label. They are the best guide to using the product in the most effective manner. The label also gives you the necessary safety precautions to protect your health. Flammable vapors may collect in low lying areas.
Incompatibility	Strong oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Hazardous Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
1,1-Difluoroethane	Not Established	Not Established
Engineering controls/ventilation	Local ventilation/exhaust preferred.	
Respiratory protection	Not required with normal use. If vapors are present or irritation is experienced, use NIOSH/MSHA approved respirator.	
Personal protective equipment	Safety glasses/goggles.	
Additional Measures	Wash hands thoroughly with soap and water after use. Use good industrial hygiene practices.	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless aerosol.	
Odor	Solvent odor.	
Odor threshold	N/D	
Boiling point	N/D	
Melting Point/Freezing Point	N/D	
Flammability (solid/gas)	Flammable aerosol	
Flash point	>60°F (15.6°C)	
Auto-ignition temperature	N/D	
Upper/lower flammability or explosive limits	Lower Flammability Limit: N/D Upper Flammability Limit: N/D	Lower Explosive Limit: N/D Upper Explosive Limit: N/D
Vapor Pressure (mmHg)	N/D	
Vapor density (Air = 1)	>2	
Evaporation Rate	>1.6	
Relative density (H2O=1)	0.92 @ 77°F (25°C)	
pH	N/A	

Solubility in Water	<1%
Partition Coefficient:n-Octanol/water (K _{ow})	N/D
Decomposition Temperature	N/D
Viscosity	N/D

SECTION 10: STABILITY AND REACTIVITY

Reactivity	This product may react with oxidizing agents.
Chemical stability	Stable.
Conditions to avoid	Temperatures greater than 122 °F and sources of ignition. Avoid incompatible materials.
Incompatibility	Strong oxidizing agents.
Hazardous decomposition products	Oxides of carbon. Formaldehyde.
Possible hazardous reactions	None known.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological information	1,1-Difluoroethane (75-37-6): LC50 (Inhalation, Rat, 4h) > 437500 ppm.
Routes of Entry	Eyes, Inhalation, Skin
Ingestion	Not a likely route of exposure under normal product handling conditions. May cause gastrointestinal irritation, nausea, diarrhea, vomiting, abdominal cramps.
Inhalation	Inhalation of vapor may produce anesthetic effects and feeling of euphoria. Prolonged overexposure can cause rapid breathing, headache, dizziness, narcosis, unconsciousness and death from asphyxiation depending upon concentration and time of exposure.
Skin contact	Brief contact is not irritating. May cause irritation, localized defatting, redness, itching with prolonged or repeated contact. Can be absorbed through the skin with prolonged and widespread contact.
Eye contact	May cause irritation, redness, tearing.
Medical condition aggravated	None known.
Acute health hazards	May cause defatting and dermatitis of the skin. Contact with eyes may cause irritation, redness, tearing. Inhalation of mist or vapors may cause respiratory irritation, drowsiness or dizziness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic health hazards	None known.
Carcinogenicity	OSHA: No ACGIH: No NTP: No IARC: No OTHER: CA Prop 65

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	1,1-Difluoroethane (75-37-6): LC50 (Fish, 96h) 295.78 mg/L; EC50 (Daphnia, 48h) 146.7 mg/L; EC50 (Algae, 96h) 47.76 mg/L.
Persistence and degradability	Component or components of this product are not biodegradable.
Bioaccumulation	Components in this mixture can bioaccumulate in aquatic organisms.
Mobility in soil	This product is mobile in soil.
Other ecological hazards	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal	Dispose of in accordance with local, state and federal regulations. Do not reuse, puncture or incinerate container. Wrap container and place in trash collection.
RCRA Status	Waste likely considered hazardous waste U161 (methyl isobutyl ketone), under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION 14: TRANSPORT INFORMATION

DOT	
UN number	1950
UN proper shipping name	Aerosols, Ltd. Qty
Transport hazard class(es)	2.1
Packing group	N/A

AIR

UN number 1950
UN proper shipping name Aerosols, flammable.
Transport hazard class(es) 2.1
Packing group N/A

Water

UN number 1950
UN proper shipping name Aerosols.
Transport hazard class(es) 2.1
Packing group N/A
Environmental hazards water N/A

SECTION 15: REGULATORY INFORMATION

TSCA Status: All chemicals are listed or exempt.

CERCLA (Comprehensive response compensation, and liability act): Methyl Isobutyl Ketone (108-10-1) Reportable Quantity = 5,000 lbs.

SARA 311/312 Hazardous categories: Flammable (gases, aerosols, liquids, solids). Gas under pressure.

SARA 313 reportable ingredients: Methyl Isobutyl Ketone (108-10-1)

Clean Water Act: None.

US state regulations: California Proposition 65: California Proposition 65: WARNING: This product can expose you to chemicals including Methyl Isobutyl Ketone (MIBK), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. Methyl isobutyl ketone (108-10-1): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: MA, NJ, PA, RI.

International regulations: No information available.

Volatile Organic Compounds (VOC): 4.5%

NFPA HEALTH	1	HMIS HEALTH	1
NFPA FLAMMABILITY	2	HMIS FLAMMABILITY	2
NFPA REACTIVITY	1	HMIS REACTIVITY	1
NFPA OTHER	None	HMIS PROTECTION	A

SECTION 16: OTHER INFORMATION

Important Note: *To be the best of our knowledge, the information contained herein is accurate. However there is no assumption of liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer/supplier, the manufacturer/supplier will not be responsible for loss, injury, or expense arising out of the products improper use. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.*

End of SDS