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Section 1. CHEMICAL PRODUCT SECTION  
Product Name: Isopropyl Alcohol, Cleaner/Degreaser  
Product Number: 1610 BULK  
General Use:  
Product Description:  
MANUFACTURER: Tech Spray, Inc. For Chemical Emergency, Spill, Leak, Fire  
P.O. Box 949 Exposure, or Accident Call CHEMTREC  
Amarillo, TX 79105-0949 DAY OR NIGHT 1-800-424-9300.  
PHONE: 806/372-8523  
FAX: 806/372-8750

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Section 2. COMPOSITION / INFORMATION ON INGREDIENTS  
CHEMICAL C.A.S. Number Weight %  
Isopropanol 67-63-0 100

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):  
Exposure Limits 8 Hours TWA (PPM)  
OSHA PEL ACGIH TLV Supplier  
Isopropanol 400 400

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Section 3. HAZARD IDENTIFICATION

Emergency Overview:  
Potential Health Effects:  
INHALATION: Major route of exposure. Vapor is heavier than air and can cause suffocation by reducing the available oxygen for breathing. Breathing high concentrations of vapor may cause light-headedness, giddiness, shortness of breath, confusion, and may lead to narcosis, cardiac irregularities, unconsciousness or even death.  
EYES: Liquid can cause slight, temporary irritation with slight temporary corneal injury. Vapors can irritate eyes.  
SKIN: Product may cause skin irritation. Repeated or prolonged contact may cause redness with burning, drying, and cracking of skin. This product may be absorbed through the skin.  
INGESTION: This product is toxic by ingestion. Ingestion may cause irritation of the digestive tract. Signs of nervous system depression (e.g. drowsiness, dizziness, loss of coordination, and fatigue). Nausea and vomiting will most likely occur.  
This product has not been classified as a carcinogen or a probable carcinogen by NTP, IARC, or OSHA.

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Section 4. 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 subsides. If irritation persists, 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 a physician. If conscious and alert, give two glasses of water. Seek medical attention immediately.

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Section 5. FIRE FIGHTING MEASURES  
Flash Point & Method: 53 F, TCC Method  
Flammable Limits: LEL: 2.0 UEL: 12.0  
Autoignition Temperature:

GENERAL HAZARD:  
None

FIRE FIGHTING INSTRUCTIONS:  
Fire fighters should wear self contained, positive-pressure breathing apparatus and avoid skin contact.

FIRE FIGHTING EQUIPMENT:  
Water, foam, dry chemical, carbon dioxide.  
HAZARDOUS COMBUSTION PRODUCTS:  
Smoke, fumes and oxides of carbon.

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Section 6. ACCIDENTAL RELEASE MEASURES  
LAND SPILL:

Ventilate area well and avoid breathing vapors. Pick up paper and place in sealed containers for disposal.

WATER SPILL:

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Section 7. 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 Section 10.) Follow all MSD Sheet and Label warnings even after container is emptied.

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Section 8. EXPOSURE CONTROL / PERSONAL PROTECTION  
Engineering Controls:

- Local Exhaust ventilation acceptable.
- Mechanical ventilation recommended.
- Use explosion-proof ventilation equipment.
- Do not use in confined spaces without mechanical ventilation equipment.

See section 2 for component exposure guidelines.

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  Neoprene
- Butyl  Buna
- Natural Latex  Cotton/Jersey

EYE PROTECTION:

- Safety Glasses  Chemical Goggles  Full Face Shield

OTHER RECOMMENDATIONS:

- Rubber Boots  Splash-proof chemical resistant suit/apron

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Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Density..... 0.786 pH..... NA  
Boiling Point..... 80C / 176F % Volatile..... 100  
Freezing Point..... NIF % Solids..... 0

Vapor Density (Air=1):... 2.1  
Solubility in Water..... 100  
Molecular Weight..... N/A  
Non-Exempt VOC (g/l).... 787  
Appearance: Clear water-white liquid with alcoholic odor.

Evaporation Rate (H2O=1)... NIF  
Viscosity..... N/A  
Physical State..... LIQUID  
Odor..... NIF

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Section 10. STABILITY AND REACTIVITY

GENERAL:

STABLE

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Contact with open flame, heat.

Reactive alkali metals, strong acids & bases.

HAZARDOUS DECOMPOSITION:

Combustion yields carbon oxides.

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Section 11. TOXICOLOGICAL INFORMATION

RESULTS OF COMPONENT TOXICITY TEST PERFORMED:

Information not available.

HUMAN EXPERIENCE:

Information not available.

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Section 12. ECOLOGICAL INFORMATION

FURTHER INFORMATION:

Information not available.

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Section 13. 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.

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Section 14. TRANSPORTATION INFORMATION

U.S. DOT Information

Proper Shipping Name: Consumer Commodity ORM-D

Hazard Class: NA

Packaging Group: NA

UN Number: NA

LIMITATIONS: 1610-50PK, & 1610-N CAN SHIP WITH- THIS PACKAGE CONFORMS  
TO CONDITIONS AND LIMITATIONS SPECIFIED IN 49 CFR 173.4

IATA

Proper Shipping Name: Consumer Commodity ID8000

Hazard Class: 9

Packing Group: NA

UN Number: ID8000

FOR DOMESTIC SHIPMENTS ONLY. WHEN SHIPPING  
INTERNATIONAL CONTACT THE TECH SPRAY SHIPPING DEPT.

IMO

Proper Shipping Name: ISOPROPANOL

Class: 3

UN Number: UN1219

Packaging Group: II

EMS: 3-06

MFAG: 305

Marine Pollutant: N/A

Canadian TDG: N/A

IMDG Page: 3244

The following part numbers are to be shipped as Dangerous  
Goods in Limited Quantities (ISOPROPANOL).

1610-50PK, 1610-N, 1610-DSP and 1610-P.

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Section 15. REGULATORY INFORMATION

UNITED STATES FEDERAL REGULATIONS:

MSDS complies with OSHA's Hazard Communication Rule, 29 CFR 1910.1200.

CERCLA/SUPERFUND, 40 CFR 117, 302:

--- None of the chemicals are Superfund hazards ---

SARA SUPERFUND AND REAUTHORIZATION ACT OF 1986

TITLE III 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 hazard evaluation, this product is non-hazardous.

(X) By our hazard evaluation, this product is hazardous. It should be reported under the following EPA hazard.

(X) Immediate (acute) health hazard

( ) Delayed (chronic) chronic health hazard

( ) Sudden release of pressure hazard

( ) Reactive hazard

(X) Flammable

Section 313 - List of Toxic Chemicals (40 CFC 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. NUMBER WEIGHT %

--- 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. NUMBER WEIGHT %

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. NUMBER WEIGHT %

--- None of the chemicals are on the Proposition 65 list ---

INTERNATIONAL REGULATIONS:

CANADA WHIMS: NIF

EUROPE EINECS NUMBERS: NIF

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Section 16.

OTHER INFORMATION

LABEL INFORMATION:

European risk and Safety Phrases: NIF

European Symbols Needed: NIF

Canadian WHIMS Symbols: NIF

NFPA HAZARD RATING:

(3) Fire (1) Health (0) Reactivity

REVISION DATES, SECTIONS, REVISED BY:

27-JULY-94, CONVERTED TO ANSI STANDARD, B. RIFFEL

07-NOV-96, Updated Section 14, B. Riffel

11-NOV-96, UPDATED TRANSPORTATION, R. PRICHARD

ABBREVIATIONS USED IN THIS DOCUMENT:

NE - Not Established, NA - Not Applicable, NIF - No Information Found

LTD-QTY - Limited Quantities.

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

To the best of our knowledge, the information contained herein is accurate. However, neither Tech Spray, Inc. or any of its subsidiaries assumes any

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 which exist.