

**Material Safety Data Sheet**

## MSDS Information

**Section 1. CHEMICAL PRODUCT SECTION**

Product Name:	<b>Isopropyl Alcohol, Cleaner/Degreaser</b>
Product Number:	1610-50PK
General Use:	Cleaning Hard Surfaces
Product Description:	Presaturated Wipe with no free liquid
MANUFACTURER:	
Tech Spray, Inc. P.O. Box 949 Amarillo, TX 79105-0949 PHONE: 806/372-8523 FAX: 806/372-8750	For Chemical Emergency, Spill, Leak, Fire Exposure, or Accident Call CHEMTREC DAY OR NIGHT 1-800-424-9300.

**Section 2. COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL	C.A.S. Number	Weight %
Isopropanol	67-63-0	100

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200): Exposure Limits 8 Hours (PPM)

	OSHA PEL	ACGIH TLV	TWA
Isopropanol	400	400	Supplier

**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.

#### 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.

#### 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.

**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:	

**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.

**Section 8. EXPOSURE CONTROL/ PERSONAL PROTECTION**

Engineering Controls:

General Room Ventilation

Local Exhaust ventilation acceptable.

Mechanical ventilation recommended.

Use explosion?proof ventilation equipment. I

Do not use in confined spaces mechanical ventilation equipment .

See section 2 for component exposure guidelines.

Personal Protection:

RESPIRATOR:

If concentration rations 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:

<input checked="" type="checkbox"/> Gloves recommended		
	<input checked="" type="checkbox"/> Solvex	<input checked="" type="checkbox"/> Neoprene
	<input checked="" type="checkbox"/> Butyl	<input checked="" type="checkbox"/> Buna
	<input checked="" type="checkbox"/> Natural Latex	<input type="checkbox"/> Cotton/Jersey

## EYE PROTECTION:

<input checked="" type="checkbox"/> Safety Glasses	<input type="checkbox"/> Chemical Goggles	<input type="checkbox"/> Full Shield
--	---	--------------------------------------

## OTHER RECOMMENDATIONS:

<input type="checkbox"/> Rubber Boots	<input type="checkbox"/> Splash-proof chemical resistant suit/apron
---------------------------------------	---

**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	Evaporation Rate (H2O=1)	NIF
Solubility in Water	100	Viscosity	N/A
Molecular Weight	N/A	Physical State	Solid
Non-Exempt VOC (g/l)	787	Odor	NIF
Appearance:	Presaturated wipe with alcoholic odor.		

**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.

**Section 11. TOXICOLOGICAL INFORMATION**

RESULTS OF COMPONENT TOXICITY TEST PERFORMED:	Information not available.
HUMAN EXPERIENCE:	Information not available.

**Section 12. ECOLOGICAL INFORMATION**

FURTHER INFORMATION: Information not available.

---

### 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.

---

### Section 14. TRANSPORTATION INFORMATION

U.S. DOT Information

Proper Shipping Name:	Non-Hazardous
Hazard Class:	NA
Packaging Group:	NA
UN Number:	NA
Special Provision:	1610-50PK meets the Special Provision for packaging found in 49CFR 172.102 code 47.

IATA

Proper Shipping Name:	Non?Hazardous
Hazard Class:	NA
Packing Group:	NA
UN Number:	NA
Special Provision:	1610-50PK meets the special provision for packaging in IATA Dangerous Goods Regulations 4.4 A46.

IMO

Proper Shipping Name:	ISOPRPANOL
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.

**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.
- By our hazard evaluation, this product is hazardous. it should be reported under the following EPA hazard.
- immediate (acute) health hazard
  - Delayed (chronic) chronic health hazard
  - Sudden release of pressure hazard
  - Reactive hazard
  - 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. 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 WHIMIT:	NIF
EUROPE EINECS NUMBERS:	NIF

**Section 16. OTHER INFORMATION****LABEL INFORMATION:**

European risk and Safety Phrases:	NIF
European Symbols Needed:	NIF
Canadian WHIMIS Symbols:	NIF

**NFPA HAZARD RATING:**

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

**REVISION DATES, SECTIONS, REVISED BY:**

09-JUL-99, Created, B. Riffel

**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.