Safety Data Sheet
Isopropyl Alcohol

Sidney Lee Welding Supply
2247 Highway US 19-41
Hampton, GA 30228
http://www.sidneylee.com

CHEMTREC - 24HR Emergency Contact
1-800-424-9300
ACCT: 20182

Section 1: Product and Company Identification

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Product Code: Isopropyl Alcohol

Section 2: Hazards Identification

Danger

Hazard Classification:
Eye Effects (Category 2.A)
Flammable (Category 1)
Gases Under Pressure
Specific target organ toxicity (Single Exposure) (Category 3)

Hazard Statements:
Causes serious eye irritation
Contains gas under pressure; may explode if heated
Extremely flammable gas
May cause respiratory irritation;

Precautionary Statements
Prevention:
Wash thoroughly after handling.
Avoid breathing dust/fume/gas/mist/ vapors/spray.
[In case of inadequate ventilation] wear respiratory protection.
Use only outdoors or in a well-ventilated area.
Wear eye protection/face protection.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Response:
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Eliminate all ignition sources if safe to do so.
Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
Call a poison center or doctor if you feel unwell.

Storage:

Store locked up.
Protect from sunlight.
Store in a well-ventilated place. Keep container tightly closed.

Disposal:

Dispose of contents and/or container in accordance with applicable regulations.

Section 3: Composition/Information on Ingredients

CAS #
67-63-0

Chemical Substance	Chemical Family	Trade Names
ISOPROPYL ALCOHOL	Alcohols	ISOPROPANOL; ETHYL CARBINOL; DIMETHYLCARBINOL; 2-PROPANOL; ISOHOL; SEC-PROPYL ALCOHOL; PROPYL ALCOHOL; STCC 4909205; UN 1219; C3H8O

Section 4: First Aid Measures

Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	Contact local poison control center or physician immediately. Never make an unconscious person vomit or drink fluids. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.	For ingestion, consider gastric lavage and activated charcoal slurry. Consider oxygen.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Alcohol-resistant foam, carbon dioxide, regular dry chemical, water, alcohol-resistant foam Large fires: Use alcohol-resistant foam or flood with fine water spray.	Carbon monoxide, carbon dioxide and toxic and irritating fumes	-Any appropriate, self- contained breathing apparatus. -Any appropriate, self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal Precautions	Environmental Precautions	Methods for Containment
Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.	Avoid heat, flames, sparks and other sources of ignition.	Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition.

Methods for Cleanup	Other Information
Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal.	None

Section 7: Handling and Storage

Handling	Storage
Store and use with adequate ventilation. Firmly secure cylinders upright to keep them from falling or being knocked over. Screw valve protection cap firmly in place by hand. Store only where temperature will not exceed 125F (52C). Store full and empty cylinders separately. Use a first-in, first-out inventory system to prevent storing full cylinders for long periods.	Do not get liquid in eyes, on skin, or clothing. Protect cylinders from damage. Use a suitable hand truck to move cylinders; do not drag, roll, slide, or drop. Open valve slowly. Close cylinder valve after each use; keep closed even when empty. If valve is hard to open, discontinue use and contact your supplier

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines
ISOPROPYL ALCOHOL: ISOPROPYL ALCOHOL (ISOPROPANOL; 2-PROPANOL): 400 ppm (980 mg/m3) OSHA TWA 500 ppm (1230 mg/m3) OSHA STEL (vacated by 58 FR 35338, June 30, 1993) 200 ppm ACGIH TWA 400 ppm ACGIH STEL 400 ppm (980 mg/m3) NIOSH recommended TWA 10 hour(s) 500 ppm (1225 mg/m3) NIOSH recommended STEL

Engineering Controls

Handle only in fully enclosed systems.

Eye Protection	Skin Protection	Respiratory Protection
Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.	Wear appropriate chemical resistant clothing.	Any appropriate, self-contained breathing apparatus.

General Hygiene considerations

-Avoid breathing vapor or mist
-Avoid contact with eyes and skin
-Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Liquid	Clear	Colorless	N/A	Liquid	Alcohol odor	N/A

Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
53 F (12 C) (CC)	IB	Not available	750 F (399 C)	12.7% @ 93.3 C	0.02

Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	pH	Odor Threshold	Evaporation Rate	Viscosity
180 F (82 C)	-128 F (- 89 C)	40 mmHg @ 24 C	2.1 (Air=1)	0.7855	Soluble	Not available	40-45 ppm	1.5 (butyl acetate = 1); 11.0 (diethyl ether = 1)	2.1 cP @ 25 C

Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
60.1	C-H3-C-H-(O-H)-C-H3	Not available	Not available	100%	1	Soluble: Alcohol, ether, chloroform, acetone, benzene

Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Stable at normal temperatures and pressure. May form peroxides when the anhydrous material is stored for long periods in contact with air and light	Stable at normal temperatures and pressure. May form peroxides when the anhydrous material is stored for long periods in contact with air and light	Acids, metals, oxidizing materials, combustible materials, halogens, peroxides, bases, metal salts

Hazardous Decomposition Products	Possibility of Hazardous Reactions
Oxides of carbon	Will not polymerize.

Section 11: Toxicology Information

Acute Effects

Oral LD50	Dermal LD50	Inhalation
5000 mg/kg oral-rat	12800 mg/kg skin-rabbit LD50	Irritation, difficulty breathing, headache, drowsiness, dizziness, loss of coordination

Eye Irritation	Skin Irritation	Sensitization
Irritation (possibly severe), eye damage	Irritation, headache, drowsiness, dizziness, loss of coordination	Eye irritation, Category 2; H319: Causes serious eye irritation. Specific Target Organ Toxicity (single exposure), Category 3; H336: May cause drowsiness or dizziness.

Chronic Effects

Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
IARC: Human Inadequate Evidence, Animal Inadequate Evidence, Group 3; ACGIH: A4 -Not Classifiable as a Human Carcinogen	Available.	Available.	No data

Section 12: Ecological Information

Fate and Transport

Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Fish toxicity: 730 ug/L 96 hour(s) LC50 (Mortality) Brook trout (Salvelinus fontinalis) Invertibrate toxicity: 3142000 ug/L 48 hour(s) EC20 (Biomass) Ciliate Protozoa (Tetrahymena thermophila) Algal toxicity: 2200 ug/L 96 hour(s) EC50 (Growth) Green algae (Chlorella pyrenoidosa) Phyto toxicity: Not available Other toxicity: Not available	Highly toxic to aquatic life.	Not available	Not available

Section 13: Disposal Considerations

Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001. Dispose in accordance with all applicable regulations.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
ISOPROPANOL or ISOPROPYL ALCOHOL	UN1219	3	II	3	5 kg or L	N/A	N/A

Canadian Transportation of Dangerous Goods

Shipping Name	UN Number	Class	Packing Group / Risk Group
ISOPROPANOL or ISOPROPYL ALCOHOL	UN1219	3	II

Section 15: Regulatory Information

U.S. Regulations

CERCLA Sections	SARA 355.30	SARA 355.40
Not regulated.	Not regulated.	Not regulated.

SARA 370.21

Acute	Chronic	Fire	Reactive	Sudden Release
Yes	No	Yes	No	No

SARA 372.65

ISOPROPYL ALCOHOL, STRONG ACID PROCESS ONLY

OSHA Process Safety

Not regulated.

State Regulations

CA Proposition 65
Not regulated.

Canadian Regulations

WHMIS Classification
B2, D2B

National Inventory Status

US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Listed on inventory.	Not listed.	Not determined.

Section 16: Other Information

NFPA Rating
HEALTH=2 FIRE=3 REACTIVITY=0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard