



# ISOPROPANOL SDS

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name on Label: PROFESSIONALS CHOICE ISOPROPYL ALCOHOL

Other Identification: RAW ISO ALCOHOL

Use of the substance/mixture: ALCOHOL SOLVENT

Company name : MOORE OIL COMPANY  
4033 WEST CUSTER AVE  
MILWAUKEE, WI 53209 (414) 462-3200

Emergency number: (800) 424-9300 - CHEMTREC

## SECTION 2: Hazards identification

### GHS Classification

Flammable liquids: Category 2

Eye irritation: Category 2A

Specific target organ toxicity - single exposure: Category 3 (Central nervous system)

### GHS Label element



Hazard pictograms:

Signal word: Danger

Hazard statements: Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.

### Potential Health Effects

Carcinogenicity:

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## SECTION 3: Composition/information on ingredients

Mixture

NAME	PRODUCT IDENTIFIER	% BY WT
Isopropyl alcohol	67-63-0	99-100
ETHANOL	64-17-5	.1-1

Synonyms: Isopropanol Anhydrous/Isopropyl Alcohol ACS Grade/Isopropyl Alcohol/TT I 735 Grade A/Velvasol 425/Value Grade Isopropanol, TT I 735A Grade B

## SECTION 4: First aid measures

**General advice:** Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

**If inhaled:** Consult a physician after significant exposure. If unconscious place in recovery position and seek medical advice.



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**In case of skin contact:** If on skin, rinse well with water. If on clothes, remove clothes.

**In case of eye contact:** Immediately flush eye(s) with plenty of water. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

**If swallowed:** Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

## SECTION 5: Fire-fighting measures

**Suitable extinguishing media:** Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical

Unsuitable extinguishing media: High volume water jet.

**Specific hazards during firefighting:** Do not allow run-off from firefighting to enter drains or water courses.

**Hazardous combustion products:** Carbon oxides

**Specific extinguishing methods:** Use a water spray to cool fully closed containers.

**Further information:** Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus for fire-fighting if necessary.

**NFPA Flammable and Combustible Liquids Classification:** Flammable Liquid Class IB

## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precautions:** Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

**Methods and materials for containment and cleaning up:** Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

## SECTION 7: Handling and storage

**Precautions for safe handling:** Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

**Conditions for safe storage, including any incompatibilities:** No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.



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## SECTION 8: Exposure controls/personal protection

Control parameters:

**Components with workplace control parameters:** 67-63-0 Isopropyl alcohol

Value type (exposure)	Control parameters / Permissible concentration		Basis
TWA	200 ppm		ACGIH
STEL	400 ppm		ACGIH
TWA	400 ppm	980 mg/m <sup>3</sup>	NIOSH REL
ST	500 ppm	1,225 mg/m <sup>3</sup>	NIOSH REL
TWA	400 ppm	980 mg/m <sup>3</sup>	OSHA Z-1
TWA	400 ppm	980 mg/m <sup>3</sup>	OSHA PO
STEL	500 ppm	1,225 mg/m <sup>3</sup>	OSHA PO

Exposure controls

Hand protection:

Eye Protection:

**Biological occupational exposure limits:** 67-63-0 Isopropyl alcohol

Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Acetone	In urine	End of shift at end of work-week	40 mg/l	ACGIH BEI

### Personal protective equipment

Respiratory protection: No personal respiratory protective equipment normally required. In the case of vapor formation use a respirator with an approved filter.

Hand protection: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection: Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection: Wear impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

## SECTION 9: Physical and chemical properties

Appearance: liquid	Color: colorless, clear	Odor: alcohol-like
Odor Threshold: 200 ppm	pH: No data available	
Freezing Point (Melting point/freezing point): -88 °C (-126 °F)		
Boiling Point (Boiling point/boiling range): 82 °C (180 °F)		
Flash point: 12 °C (54 °F)	Evaporation rate: 1.2 n-Butyl Acetate	
Flammability (solid, gas): No data available	Burning rate: No data available	
Upper explosion limit: 12.7 %(V)	Lower explosion limit: 2 %(V)	
Vapor pressure: 32 mmHg @ 20 °C (68 °F)	Relative vapor density: 2 @ 20 °C (68 °F) AIR=1	
Relative density: 0.79 @ 20 °C (68 °F) Reference substance: (water = 1)		
Density: 0.79 g/cm <sup>3</sup> @ 20 °C (68 °F) 6.59 lb/gal @ 20 °C (68 °F)		
Bulk density: No data available	Water solubility: completely miscible	
Solubility in other solvents: No data available		
Partition coefficient: n-octanol/water: log Pow: 0.05 @ 25 °C (77 °F)		
Auto-ignition temperature: 399 °C		
Thermal decomposition: No data available		
Viscosity, dynamic: 2.4 mPa.s @ 20 °C (68 °F)		
Viscosity, kinematic: 2.6 mm <sup>2</sup> /s @ 25 °C (77 °F)		



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## SECTION 10: Stability and reactivity

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Vapours may form explosive mixture with air.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Aldehydes, Chlorine, Ethylene oxide, halogens, isocyanates, Strong acids, strong oxidizing agents

Hazardous decomposition products: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

## SECTION 11: Toxicological information

### Acute toxicity

#### Product:

Acute oral toxicity: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method

Acute inhalation toxicity: Acute toxicity estimate : > 40 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method

Acute dermal toxicity: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method

#### Components:

67-63-0:

Acute oral toxicity: LD50 (rat): 5,045 mg/kg

Acute inhalation toxicity: LC50 (rat): 16000 ppm

Acute dermal toxicity: LD50 (rabbit): 12,800 mg/kg

64-17-5:

Acute oral toxicity: LD50 (rat): 7,060 mg/kg

Acute inhalation toxicity: LC50 (rat): 124.7 mg/l

Acute dermal toxicity: Remarks: No data available

### Skin corrosion/irritation

#### Product:

Remarks: May cause skin irritation in susceptible persons.

#### Components:

67-63-0: Species: rabbit Result: Mild skin irritation

64-17-5: Species: rabbit Result: No skin irritation

### Serious eye damage/eye irritation

Product: Remarks: Eye irritation

#### Components:

67-63-0: Species: rabbit Result: Irritating to eyes.

64-17-5: Species: rabbit Result: Irritating to eyes.

### Respiratory or skin sensitisation

#### Components:

64-17-5: Test Type: lymph node assay Species: mouse Method: OECD Test Guideline 429 GLP: No data available Remarks: Did not cause sensitisation on laboratory animals.

### Germ cell mutagenicity

#### Components:

67-63-0:

Genotoxicity in vitro: Test Type: Ames test Test species: Salmonella typhimurium Result: negative

Genotoxicity in vivo: Test Type: In vivo micronucleus test Test species: mouse Method: OECD Test Guideline 474 Result: negative

Germ cell mutagenicity Assessment: Did not show mutagenic effects in animal experiments.



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64-17-5:

Genotoxicity in vitro: Test Type: Mammalian cell gene mutation assay Test species: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: No data available

Genotoxicity in vivo: Test Type: Dominant lethal assay Test species: mouse (male) Application Route: Oral Dose: 10 or 40% ethanol in water Method: OECD Test Guideline 478 Result: negative GLP: No data available

Germ cell mutagenicity- Assessment: Mutagenicity classification not possible from current data

## **Carcinogenicity**

### Components:

67-63-0: Species: rat NOAEL: 5,000 ppm Method: OECD Test Guideline 451 Carcinogenicity - Assessment: Not classifiable as a human carcinogen.

64-17-5: Carcinogenicity - Assessment: Carcinogenicity classification not possible from current data.

## **Reproductive toxicity**

### Components:

67-63-0: Reproductive toxicity – Assessment: Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.

64-17-5: Effects on fertility: Test Type: Two-generation study Species: mouse, male and female Application Route: oral Dose: 5, 10 and 15% v/v in water General Toxicity - Parent: NOAEL: 15 % diet General Toxicity F1: NOAEL: 10 % diet Symptoms: reduced litter size Reduced sperm motility in F1 generation Method: OECD Test Guideline 416 GLP: No data available

Effects on fetal development: Species: rat Application Route: Inhalation Dose: 10,000, 16,000 or 20,000 ppm General Toxicity Maternal: NOAEL: 16,000 ppm Teratogenicity: NOAEL: > 20,000 ppm Symptoms: No malformations were observed. Method: OECD Test Guideline 414 GLP: No data available

Reproductive toxicity - Assessment: Fertility classification not possible from current data.

Embryotoxicity classification not possible from current data.

## **STOT - single exposure**

Product: No data available

### Components:

67-63-0: Inhalation - Central nervous system - May cause drowsiness or dizziness. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

64-17-5: Inhalation - Central nervous system - May cause drowsiness or dizziness. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

Inhalation - Respiratory system - May cause respiratory irritation. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

## **STOT - repeated exposure**

Product: No data available

Components: 67-63-0: No data available 64-17-5: No data available

## **Repeated dose toxicity**

Components: 64-17-5: Species: rat, male and female NOAEL: 10 ml/kg Application Route: Oral Exposure time: 7 or 14 wk Number of exposures: 2 times/d, 7 d/wk Dose: 5, 10, 20ml/kg of 16.25% etoh Method: OECD Test Guideline 408 GLP: yes

**Aspiration toxicity** Components: 64-17-5: No aspiration toxicity classification

**Further information:** Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin



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## SECTION 12: Ecological information

### Ecotoxicity

Components: 67-63-0: Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: LC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h

Toxicity to algae: Remarks: No data available

64-17-5:

Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 15,300 mg/l Exposure time: 96 h Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates: EC50 (Ceriodaphnia dubia): 5,012 mg/l Exposure time: 48 h Test Type: static test

Toxicity to algae: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l End point: Growth rate  
Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: No data available

### Persistence and degradability

Components: 64-17-5: Biodegradability: Result: Readily biodegradable.

### Bioaccumulative potential

Components: 64-17-5: Bioaccumulation: Remarks: Bioaccumulation is unlikely.

**Mobility in soil** No data available

**Other adverse effects** No data available

### Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information: No data available

## SECTION 13: Disposal considerations

Waste from residues: Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction.

Contaminated packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14: Transport information

IATA (International Air Transport Association): UN1219, Isopropanol, 3, II, Flash Point: 12 °C(54 °F)

IMDG (International Maritime Dangerous Goods): UN1219, ISOPROPANOL, 3, II

DOT (Department of Transportation): UN1219, Isopropanol, 3, II

## SECTION 15: Regulatory information

OSHA Hazards: Flammable liquid, Moderate eye irritant

WHMIS Classification: B2: Flammable liquid D2B: Toxic Material Causing Other Toxic Effects

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity: This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity: This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards: Fire Hazard Acute Health Hazard



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SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

67-63-0 Isopropyl alcohol 100 %                      64-17-5 Ethanol 0.1 %                      71-23-8 n-Propanol 0.015 %

## Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A. This product does not contain any Hazardous Chemicals listed under the U.S. Clean-Water Act, Section 311, Table 117.3. This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

## US State Regulations

Massachusetts Right To Know

67-63-0 Isopropyl alcohol 90 - 100 %

Pennsylvania Right To Know

67-63-0 Isopropyl alcohol 90 - 100 %

New Jersey Right To Know

67-63-0 Isopropyl alcohol 90 - 100 %                      64-17-5 Ethanol 0.1 - 1 %

California Prop 65 - This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## The components of this product are reported in the following inventories:

Switzerland. New notified substances and declared preparations

United States TSCA Inventory

Canadian Domestic Substances List (DSL)

Australia Inventory of Chemical Substances (AICS)

New Zealand. Inventory of Chemical Substances

Japan. ENCS - Existing and New Chemical Substances Inventory

Japan. ISHL - Inventory of Chemical Substances (METI)

Korea. Korean Existing Chemicals Inventory (KECI)

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

China. Inventory of Existing Chemical Substances in China (IECSC)

## SECTION 16: Other information

The information in this Safety Sheet was obtained from sources which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This safety sheet was prepared and is to be used only for this product. If the product is used as a component in another product, this safety sheet information may not be applicable.