## MATERIAL SAFETY DATA SHEET

# Isopropyl Alcohol (2-propanol)

## SECTION 1 . Product and Company Idenfication

Product Name and Synonym: Isopropyl Alcohol (2-propanol)

Product Code: 17612

Material Uses:

Manufacturer: Science Stuff

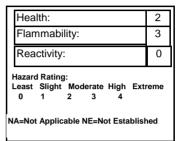
1104 Newport Ave

Austin, TX 78753 (512) 837-6020

Entry Date : 6/7/2013
Print Date: 6/7/2013

24 Hour Emergency Assistance : Chemtrec 800-424-9300

Canutec 613-996-6666



### **SECTION 2 HAZARD IDENTIFICATION**

Keep away from heat and ignition sources. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

Physical state: Liquid (Colorless)

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency overview:

WARNING!

HARMFUL IF INHALED OR SWALLOWED CAUSES SEVERE EYE IRRITATION FLAMMABLE LIQUID AND VAPOR

VAPOR MAY CAUSE FLASH FIRE MAY BE HARMFUL IF ABSORBED THROUGH SKIN MAY CAUSE SKIN IRRITATION

MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: RESPIRATORY TRACT, SKIN, EYES, CENTRAL NERVOUS SYSTEM

**ASPIRATION HAZARD** 

Keep away from heat, sparks and flame. Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin or clothing. Avoid contact with skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Routes of entry: Dermal contact. Eye contact. Inhalation. Ingestion

Potential acute health effects:

Inhalation: Toxic by inhalation. Vapors may cause drowsiness and dizziness

Ingestion: Toxic if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause

damage.

Skin: May be harmful in contact with skin. May cause skin irritation. Eyes: Severely irritating to eyes. Risk of serious damage to eyes.

Potential chronic health effects

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards. Teratogenicity: No known significant effects or critical hazards. Developmental effects: No known significant effects or critical hazards. Fertility effects: No known significant effects or critical hazards.

Target organs: May cause damage to the following organs: upper respiratory tract, skin, eyes,

central nervous system (CNS).

Medical conditions aggravated by over-exposure: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

#### SECTION 3 MIXTURE COMPONENTS

**Exposure** Percent Limits **SARA 313** Component **CAS Number** Comp. Dimension V/V **OSHATWA** ✓ Isopropyl Alcohol (2-CAS# 67-63-0 100% propanol) 400 ppm, STEL 500 ppm

#### SECTION 4 FIRST AID MEASURES

Keep away from heat and ignition sources. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. if irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

Eve contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact: In case of contact flush contaminated skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

# SECTION 5 FIRE FIGHTING MEASURES

Water spray, dry chemical, carbon Fire Extinguisher Type:

dioxide, alcohol foam

FLAMMABLE! Vapor air mixtures are explosive Fire / Explosion Hazards:

within flammable limits noted. Vapors may travel

to distant ignition source and flash back.

Wear self-contained breathing apparatus and protective clothing Fire Fighting Procedure:

to prevent contact with skin and clothing.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

Eliminate Ignition Sources. Neutralize with: Soda lime, soda ash. Absorb with vermiculite or other inert material. Place in container.

## SECTION 7 HANDLING AND STORAGE

Keep away from heat and flame. Do not get in eyes, on skin, on clothing. Use with adequate ventilation.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection:

Organic Vapor Cartridge

Ventilation

Local Exhaust 🗸

Mechanical

Protective Gloves: NIOSH Approved Gloves

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent

skin exposure

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point: -89°C Percent Volatile by Volume: >99

Boiling Point: 82°C Evaporation Rate Information not

Upper Flamm, Limit in Air

available

12.0%

Vapor Pressure: 33 mm Hg @ Evaporation Standard

25° C

Vapor Density: 2.1 (air=1) Auto Ignition Temp 399° C
Solubility in Water: Soluble Lower Flamm. Limit in Air 2.0%

Appearance /Odors: Clear,

colorless liquid

with mild odor

Flash Point: 12°C (closed

cup)

Specific Gravity: .79

## SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable

Conditions to Avoid: Avoid heat and ignition sources

Materials to Avoid: Strong oxidizers, metals, strong bases,

Hazardous Decomposition

amines

Products:

Carbon Oxides

Hazardous polymerization: Will Not Occur

Conditions to Avoid: None known

### SECTION 11 Toxicological Information

Toxicity data

**United States** 

#### Product/ingredient name - Isopropyl Alcohol

| Test         | Result      | Route          | Species |
|--------------|-------------|----------------|---------|
| LD50         | 12800 mg/kg | Dermal         | Rabbit  |
| LD50         | 2735 mg/kg  | Dermal         | Rat     |
| Intraperitor | neal        |                |         |
| LD50         | 1088 mg/kg  | Intravenous    | Rat     |
| LD50         | 5045 mg/kg  | Oral           | Rat     |
| LD50         | 5000 mg/kg  | Oral           | Rat     |
| LD50         | 6410 mg/kg  | Oral           | Rabbit  |
| LDLo         | 1537 mg/kg  | Oral           | Dog     |
| LDLo         | 3570 mg/kg  | Oral           | Human   |
| LDLo         | 5272 mg/kg  | Oral           | Man     |
| TDLo         | 800 mg/kg   | Oral           | Rat     |
| Intraperitor | neal        |                |         |
| LC50         | 16000 ppm   | Inhalation Gas | s Rat   |

#### Carcinogenicity Classification

Product/ingredient name: Isopropyl Alcohol

ACGIH: A4 IARC: 3 EPA: -NIOSH: -NTP: -OSHA: -

Specific effects

Carcinogenic effects: No known significant effects or critical hazards Mutagenic effects: No known significant effects or critical hazards

Teratogenicity/Reproductive toxicity: No known significant effects or critical hazards

# SECTION 12 Ecological Information

Ecotoxicity data - United States

Product/ingredient name: Isopropyl Alcohol

Exposure Result Species Acute EC50 10000 mg/L Fish 48 hours Acute LC50 10400 mg/L Fish 96 hours Acute LC50 11130 mg/L Fish 96 hours Acute LC50 9640 mg/L Fish 96 hours Acute LC50 6550 mg/L Fish 96 hours Acute LC50 <1400 mg/L Fish 96 hours

Result: Acute LC50<1400000 ug/L

Species: Fish – Western mospuitofish–Gambusia affinis – 20 to 30 mm

Exposure: 96 hours

Result: Acute LC50 1400000 to 1950000ug/L Marine water

Species: Crustaceans – Common shrimp, sand shrimp – Crangon crangon

Exposure: 48 hours

Result: Acute LC50 11130000ug/L Fresh water

Species: Pimephales promelas – Juvenile (Fledgling, Hatchling, Weanling) 4 to 8 weeks

1.1 to 3.1 cm Exposure: 96 hours

Result: Acute LC50 10400000 to 1060000000 ug/LFresh water

Species: Fish – Fathead minnow-Pimephales promelas29 days – 20 mm-0.103 g

Exposure: 96 hours

Result: Acute LC 50 6550000to 7450000 ug/L

Species: Fish – Fathead minnow – Pimephales promelas – 31 days – 17.4 mm – 0.082 g

Exposure: 96 hours

Result: Acute LC50 4200000 ug/L Fresh water

Species: Fish – Harlequinfish, red rasbora – Rasbora – heteromorpha – 1 to 3 cm

Exposure: 96 hours

Environmental effects: No known significant effects or critical hazards. Other adverse effects: No known significant effects or critical hazards.

## **SECTION 13**

## **Disposal Considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations

#### **SECTION 14**

#### Transport Information

DOT Classification:

UN1219, Isopropanol, 3, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

#### **SECTION 15**

### Regulatory Information

----\Chemical Inventory Status - Part 1\----TSCA EC Japan Australia Isopropyl Alcohol (67-63-0) Yes Yes Yes Water (7732-18-5) Yes Yes Yes Yes -----\Chemical Inventory Status - Part 2\-------Canada--Ingredient Korea DSL NDSL Phil. Isopropyl Alcohol (67-63-0) Yes Yes No Yes Water (7732-18-5) Yes Yes No ------\Federal, State & International Regulations - Part 1\------SARA 302- -----SARA 313-----Ingredient RQ TPQ List Chemical Catg. Isopropyl Alcohol (67-63-0) No No Yes No No No Water (7732-18-5) Nο -----\Federal, State & International Regulations - Part 2\------RCRA- -TSCA-Ingredient CERCLA 261.33 8(d) Isopropyl Alcohol (67-63-0) Nο Nο Nο Water (7732-18-5) No No Nο

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No Reactivity: No (Mixture / Liquid)

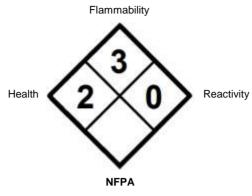
Australian Hazchem Code: 2[S]2 Poison Schedule: None allocated WHMIS:

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## **SECTION 16**

# Additional Information



Revisions

| 1/16/2013 | 0   | Creation date 12/18/12    |
|-----------|-----|---------------------------|
| 1/16/2013 | 0.1 | Revised to 16 sections LS |

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