

TCI AMERICA SAFETY DATA SHEET

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Isopropyl Alcohol

Product code: 10163

Product use:For laboratory research purposes.Restrictions on use:Not for drug or household use.

Company: TCI America

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sales-US@TClchemicals.com www.TClchemicals.com

Emergency telephone number:

Chemical Emergencies:

TCI America (8:00am - 5:00pm) PST

+1-503-286-7624

Transportation Emergencies: Chemtrec 24-Hour

+1-800-424-9300 (U.S.A.) +1-703-527-3887 (International)

Responsible department:

TCI America

Environmental Health Safety and Security

+1-503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Eye Damage/Irritation [Category 2A]

WHMIS 2015: Toxic to Reproduction [Category 2]

Specific Target Organ Toxicity (Single Exposure) [Category 1] Specific Target Organ Toxicity (Single Exposure) [Category 3] Specific Target Organ Toxicity (Repeated Exposure) [Category 2]

Flammable Liquids [Category 2]

Signal word: Danger!

Hazard Statement(s): Highly flammable liquid and vapor

Causes serious eye irritation

Suspected of damaging fertility or the unborn child Causes damage to: Kidney Central Nervous System

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure: Liver Spleen Blood Vessels

Pictogram(s) or Symbol(s):







Precautionary Statement(s): [Prevention]

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and hot surfaces. – No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection.

[Response]

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. If exposed: Call a poison center or doctor.

[Storage] [Disposal] Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40

CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified: [HNOC]

May be harmful if swallowed and enters airways. May be harmful if in contact with skin. May be harmful if swallowed.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance Isopropyl Alcohol Components: Percent: >99.5%(GC) CAS RN: 67-63-0 Molecular Weight: 60.10 **Chemical Formula:** C₃H₈O

Synonyms: 2-Propanol, IPA, Isopropanol

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

Call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Call a POISON CENTER or doctor/physician.

Call a POISON CENTER or doctor/physician. Rinse mouth. Ingestion:

Symptoms/effects:

Redness. Acute:

Delayed: May have effects on the respiratory tract.

Indication of any immediate medical attention:

Not available. Notes to physician: No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water in large amounts, carbon dioxide.

Hazardous combustion products: These products include: Carbon oxides

Other specific hazards: Closed containers may explode from heat of a fire.

Advice for firefighters: Wear self-contained breathing apparatus if possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be

controlled around the leakage area by roping off, etc. Prevent product from entering drains.

Methods and materials for containment

Environmental precautions:

and cleaning up:

Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use

spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

Prevention of secondary hazards:

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent Precautions for safe handling:

> generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands

and face thoroughly after handling.

Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.

Avoid all contact!

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dark and well-ventilated place. Storage conditions:

Store locked up.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws. Isopropyl Alcohol TCI AMERICA Page 3 of 5

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

 ACGIH TLV(TWA):
 200 ppm

 ACGIH TLV(STEL):
 400 ppm

 OSHA PEL(TWA):
 400 ppm

 JSOH OELs(CL):
 400 ppm

Appropriate engineering controls: Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed

system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc.

Use respirators approved under appropriate government standards and follow local and national

regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):

Form:

Colour:

Colorless

Odour:

Pleasant

No data or

Odor threshold:

Odour threshold:

No data available

No data available

Melting point/freezing point:No data availablepH:No data availableBoiling point/range:82°C (180°F)Vapour pressure:No data available

Decomposition temperature: No data available Vapour density: 2.1

Relative density: 0.79 Dynamic Viscosity: No data available
Kinematic viscosity: No data available

Log Pow: No data available Evaporation rate(Butyl No data available

Acetate=1):

Flash point: 15°C (59°F) Autoignition temperature: 456°C (853°F)

Flammability(solid, gas): No data available Flammability or explosive limits:

Lower: 2% Upper: 12%

Solubility(ies):

[Water] Miscible

[Other solvents]

Miscible: Ether, Alcohols, Acetone, Chloroform, Many organic solvents

Soluble: Benzene

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability:

Possibility of hazardous reactions:

Conditions to avoid:

Spark, Open flame, Static discharge

Oxidizing agents, Aside, Halagane, Alum

Incompatible materials: Oxidizing agents, Acids, Halogens, Aluminium

Hazardous decomposition products: Carbon dioxide, Carbon monoxide

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11. TOXICOLOGICAL INFORMATION

RTECS Number: NT8050000

Acute Toxicity:

ihl-hmn TCLo:35 ppm/4H ihl-rat LC50:16000 ppm/8H orl-hmn TDLo:223 mg/kg orl-rat LD50:5045 mg/kg

Skin corrosion/irritation: skn-rbt 500 mg MLD

Serious eye damage/irritation:

eye-rbt 10 mg MOD

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

cyt-rat-ihl 1030 ug/m3/16W-I

Carcinogenicity: No data available

IARC: Group 3 (Not classifiable as

carcinogenic to humans).

NTP: No data available

OSHA: No data available

Reproductive toxicity:

ihl-rat TCLo:3500 ppm/7H (1-19D preg)

orl-rat TDLo:8 g/kg (6-15D preg)

orl-rbt TDLo:6240 mg/kg (6-18D preg)

Aspiration hazard: May be harmful if swallowed and enters airways.

Target organ(s):

Causes damage to: Kidney Central Nervous System

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure: Liver Spleen Blood Vessels

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: 96h LC50:>100 mg/L (Oryzias latipes)
Crustacea: 48h EC50:>1000 mg/L (Daphnia magna)

Algae: 72h EC50:>1000 mg/L (Selenastrum capricornutum)

Persistence / degradability: 86% (by BOD), 94% (by TOC), 100% (by GC)

Bioaccumulative potential(BCF):

Mobility in soil

Disposal of container:

3

Log Pow: 0.05
Soil adsorption (Koc): 25
Henry's Law (PaM³/mol): 0.82

13. DISPOSAL CONSIDERATIONS

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and

Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for

Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not

be allowed to enter the environment, drains, water ways, or the soil. Dispose of as unused product. Do not re-use empty containers.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

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14. TRANSPORT INFORMATION

DOT (US)

UN number: Proper Shipping Name: Class or Division: Packing Group:

UN1219 Isopropanol 3 Flammable liquid

<u>IATA</u>

UN number: Proper Shipping Name: Class or Division: Packing Group:

UN1219 Isopropanol 3 Flammable liquid

<u>IMDG</u>

UN UN1219 Proper Shipping Name: Class or Division: Packing Group:

numb Isopropanol 3 Flammable liquid II

er:

EmS number: F-E, S-D

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313: Listed SARA 302: Not Listed

State Regulations
State Right-to-Know

Massachusetts
New Jersey
Pennsylvania
California Proposition 65:
Listed
Listed
Not Listed

Other Information

NFPA Rating:HMIS Classification:Health:2Health:2Flammability:3Flammability:3Instability:0Physical:0

International Inventories

 Canada: DSL
 On DSL

 EC-No:
 200-661-7

16. OTHER INFORMATION

Revision date: 07/06/2018 Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or 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 chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.