

# SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 1 Revision date: 10/03/2018

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

1.1 Product identifiers

Product name: Isopropyl Alcohol [for Spectrophotometry]

Product code: 10164

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht

Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.com

**1.4 Emergency telephone number:** +32(0)70 245 245

#### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flammable liquids Category 2
Serious eye damage/eye irritation Category 2
Specific target organ toxicity - Single exposure [Category 3] Narcotic effects

2.2 Label elements

Pictograms or hazard symbols





Signal word Danger

**Hazard statements** H225-Highly flammable liquid and vapour.

H319-Causes serious eye irritation.

H336-May cause drowsiness or dizziness.

Precautionary statements P210-Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261-Avoid breathing mist, vapours or spray. P280-Wear protective gloves, eye protection.

P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower.

P304+P340+P312-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a

POISON CENTER or doctor if you feel unwell.

P305+P351+P338+P337+P313-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.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

# SECTION 3: Composition/information on ingredients

3.1 Substances

Components: Isopropyl Alcohol [for Spectrophotometry]

 Percent:
 >99.5%(GC)

 CAS RN:
 67-63-0

 EC-No:
 200-661-7

**Synonyms:** 2-Propanol , IPA , Isopropanol

Chemical Formula: C<sub>3</sub>H<sub>8</sub>O

# SECTION 4: First aid measures

4.1 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.

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

**Protection of first-aiders:** A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

### 4.2 Most important symptoms and effects, both acute and delayed

No data available

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the

substance or mixture

Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so. When extinguishing fire, be sure to wear personal protective equipment

# SECTION 6: Accidental release measures

6.1 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

6.2 Environmental precautions

Prevent product from entering drains

6.3 Methods and materials for containment 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.

6.4 Reference to other sections

For disposal see section 13.

### SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent 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!

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.

7.3 Specific end use(s)

No further relevant information available.

Isopropyl Alcohol [for Spectrophotometry]

## SECTION 8: Exposure controls/personal protection

8.1 Control parameters

 ACGIH TLV(TWA):
 200 ppm

 ACGIH TLV(STEL):
 400 ppm

 OSHA PEL(TWA):
 400 ppm

 JSOH OELs(CL):
 400 ppm

8.2 Exposure controls Install a closed system or local exhaust. Also install safety shower and eye bath.

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.

## SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C):

Form:
Colour:
Colour:
Codour:
Alcoholic
Odour threshold:
Liquid
Clear
Colorless
Alcoholic
22 ppm

pH: No data availableMelting point/freezing point: No data available

**Boiling point/range:** 82°C Flash point: 15°C

Evaporation rate(Butyl Acetate=1): No data available Flammability(solid, gas): No data available

Flammability or explosive limits:

 Lower:
 2%

 Upper:
 12%

 Vapour pressure:
 4.4kPa/20°C

Vapour density: 2.1 Relative density: 0.79

Solubility(ies):

[Water] Miscible

[Other solvents]

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

Soluble: Benzene
Partition coefficient: 0.05

n-octanol/water:

Autoignition temperature: 456°C

9.2 Other safety information No data available

# SECTION 10: Stability and reactivity

10.1 Reactivity No data available

**10.2 Chemical stability** Stable under proper conditions.

**10.3 Possibility of hazardous reactions** No special reactivity has been reported.

**10.4 Conditions to avoid** Spark, Open flame, Static discharge

10.5 Incompatible materials Oxidizing agents, Acids, Halogens, Aluminium

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide

Isopropyl Alcohol [for Spectrophotometry]

## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

ihl-rat LC50:16000 ppm/8H **Acute Toxicity:** 

orl-rat LD50:5045 mg/kg skn-rbt LD50:12800 mg/kg

Skin corrosion/irritation: skn-rbt 500 mg MLD Serious eye damage/irritation: eye-rbt 10 mg MOD eye-rbt 100 mg SEV Respiratory or skin sensitization: No data available

Germ cell mutagenicity:

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

Carcinogenicity:

IARC = Group 3 (Not classifiable as carcinogenic to humans)

NTP = No data available

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

orl-rat TDLo:32400 ug/kg (26W pre) orl-rat TDLo:3500 g/kg (multigeneration)

STOT-single exposure: No data available STOT-repeated exposure: No data available Aspiration hazard: No data available **RTECS Number:** NT8050000

# SECTION 12: Ecological information

## 12.1 Toxicity

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

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

12.2 Persistence and degradability 86% (by BOD), 94% (by TOC), 100% (by GC)

3 12.3 Bioaccumulative potential

12.4 Mobility in soil

0.05 Log Pow: Soil adsorption (Koc): 25 Henry's Law (PaM 3/mol): 0.82

## 12.5 Results of PBT and vPvB assessment

Not applicable PBT: vPvB: Not applicable

12.6 Other adverse effects No data available

## SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system but exert extra care in igniting as this material is highly flammable. Observe all federal, state and local regulations when disposing of the substance

> Isopropyl Alcohol [for Spectrophotometry]

## SECTION 14: Transport information

**14.1 UN number** 1219

14.2 UN proper shipping name

ADR/RID Isopropyl alcohol IMDG/IMO Isopropyl alcohol ICAO/IATA Isopropyl alcohol

14.3 Transport hazard class(es)

ADR/RID 3: Flammable liquid IMDG/IMO 3: Flammable liquid ICAO/IATA 3: Flammable liquid

14.4 Packaging group

ADR/RID II
IMDG/IMO II
ICAO/IATA II

14.5 Environmental hazards

Marine pollutant -

14.6 Special precautions for user No data available

### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Water Hazard Classes (WGK): Class 1 - Low hazard to waters

Substance of Very High Concern (SVHC) according to the Not listed

REACH Regulations (EC) No.1907/2006

A chemical safety assessment has not been carried out.

SECTION 16: Other information

15.2 Chemical safety assessment

Prepared by: TCI EUROPE N.V. Issue date: 10/03/2018

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

**End of Safety Data Sheet**