

according to Regulation (EC) No 1907/2006

	14459-49 Isopropyl Alcohol	
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SECTION 1: Identification of the	substance/mixture and of the company/undertaking	
1.1. Product identifier		
14459-49 Isopropyl Alcohol		
CAS No:	67-63-0	
EC No:	200-661-7	
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised against	
Use of the substance/mixture		
Water analysis		
<b><u>1.3. Details of the supplier of the saf</u></b>	ety data sheet	
Company name:	HACH LANGE GmbH	
Street:	Willstätterstr. 11	
Place:	D-40549 Düsseldorf	
Telephone:	+49 (0)211 5288-383	
e-mail:	SDS@hach.com	
Internet:	www.de.hach.com	
Responsible Department:	HACH LANGE Ltd.	
	5, Pacific Way	
	Salford Manchester M50 1DL - United Kingdom	
	Tel. +44 (0) 161 872 1487 * Fax +44 (0) 161 848 7324	
	e-Mail: info-uk@hach.com	
	HACH LANGE Ltd.	
	Unit 1, Chestnut Road Western Industrial Estate	
	IRL-Dublin 12	
	Tel. +353 (0)1 4602522	
	e-Mail: info-ie@hach.com	
1.4. Emergency telephone	Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergence	су.
number:	service -	

# SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

# Regulation (EC) No. 1272/2008

Hazard categories: Flammable liquid: Flam. Liq. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

#### 2.2. Label elements

# Regulation (EC) No. 1272/2008

Signal word: Danger

#### **Pictograms:**





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# 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

### Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

# 2.3. Other hazards

no data available

# **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

#### Hazardous components

CAS No	Chemical name			Quantity	
	EC No	Index No	REACH No		
	Classification according to Regulation (EC) No. 1272/2008 [CLP]				
67-63-0	propan-2-ol; isopropy	propan-2-ol; isopropyl alcohol; isopropanol			
	200-661-7 603-117-00-0				
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336				

Full text of H and EUH statements: see section 16.

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

Take off all contaminated clothing immediately. Consult a physician. Show this safety data sheet to the doctor in attendance.

# After inhalation

Move to fresh air. If breathing has stopped, apply artificial respiration. Consult a physician.

### After contact with skin

Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing immediately. If skin irritation persists, call a physician.

#### After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

# After ingestion

Clean mouth with water and drink afterwards plenty of water.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.



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Obtain medical attention.

#### **4.2. Most important symptoms and effects, both acute and delayed** Irritation and corrosion, Cough, headache

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

### Suitable extinguishing media

Water, Carbon dioxide (CO2), Alcohol-resistant foam Dry powder,

#### 5.2. Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours. Carbon oxides

#### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing. Use water spray to cool unopened containers.

### Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Only qualified personnel equipped with suitable protective equipment may intervene. Immediately evacuate personnel to safe areas. Do not breathe vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

#### 6.3. Methods and material for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

# 6.4. Reference to other sections

13. Disposal considerations

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Do not breathe vapours/dust.

# Advice on protection against fire and explosion

Highly flammable

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep tightly closed in a dry, cool and well-ventilated place.



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Avoid contact with skin and eyes.

### Hints on joint storage

Do not store together with Acids, Oxidizing agents

# 7.3. Specific end use(s)

Laboratory chemicals Reagent for analysis

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

#### 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

#### Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Wash hands before breaks and after work.

#### Eye/face protection

Safety glasses with side-shields

### Hand protection

#### Use barrier skin cream.

Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

In case of full contact: Glove material : Nitrile rubber Layer thickness: > 0,4 mm Break through time: 480 min

In case of contact through splashing: Glove material : Nitrile rubber Layer thickness: > 0,2 mm Break through time: 60 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves.

#### Skin protection

Flame retardant antistatic protective clothing impervious clothing

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# **Respiratory protection**

Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Recommended Filter type: ABEK



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Multi-purpose combination filter: US

#### **Environmental exposure controls**

Do not flush into surface water or sanitary sewer system.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour:	liquid colourless alcohol-like	
pH-Value (at 20 °C):		no data available
Changes in the physical state		
Melting point:		-89,5 °C
Initial boiling point and boiling range:		82,4 °C
Sublimation point:		no data available
Softening point:		no data available
Pour point:		no data available
Ignition temperature:		399 °C
Flash point:		12 °C
Flammability		
Solid:		no data available
Gas:		no data available
Explosive properties no data available		
Lower explosion limits:		2 vol. %
Upper explosion limits:		12,7 vol. %
Ignition temperature:		425 °C
Auto-ignition temperature Solid: Gas:		no data available no data available
Decomposition temperature:		no data available
Oxidizing properties no data available		
Vapour pressure: (at 20 °C)		43,2 hPa
Vapour pressure: (at 25 °C)		58,7 hPa
Density (at 20 °C):		0,785 g/cm³
Bulk density:		no data available
Water solubility: (at 20 °C)		soluble
Solubility in other solvents no data available		
Partition coefficient:		no data available
Viscosity / dynamic:		no data available
Viscosity / kinematic:		no data available
Flow time:		no data available



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Vapour density:	no data available	
Evaporation rate:	no data available	
Solvent separation test:	no data available	
Solvent content:	no data available	
9.2. Other information		
Solid content:	no data available	
no data available		
SECTION 10: Stability and reactivity		
<u>10.1. Reactivity</u> no data available		
10.2. Chemical stability		
Stable under recommended storage co	nditions.	
10.3. Possibility of hazardous reactions		
no data available		
10.4. Conditions to avoid Heat, flames and sparks.		
10.5. Incompatible materials		
Oxidizing agents, Aluminium, Paraffin ,	Acids	
10.6. Hazardous decomposition products		
Heating can release hazardous gases.		
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity LD50/oral/rat = 5045 mg/kg LC50/inhalation/8h/rat = 12000 ppm LD50/dermal/rabbit = 12800 mg/kg		
CAS No Chemical name		
Exposure route Dose	Species Source	Method
67-63-0 propan-2-ol; isopropyl alcohol; isop	propanol	

	Exposure route	Dose		Species	Source	Method	
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol						
		LD50 mg/kg	5045	rat	RTECS		
		LD50 mg/kg	12800	rabbit			
	inhalation (4 h) vapour	LC50	46,5 mg/l	rat			

# Irritation and corrosivity

irritant effects

# Carcinogenic/mutagenic/toxic effects for reproduction

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.

### STOT-single exposure

Vapours may cause drowsiness and dizziness.

# STOT-repeated exposure

No information available.



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# Aspiration hazard

No information available.

# Specific effects in experiment on an animal

No information available.

#### Practical experience

#### Observations relevant to classification

No information available.

#### **Further information**

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

LC50/24h/goldfish = 5000 mg/l

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
67-63-0	propan-2-ol; isopropyl alc	panol					
	Acute fish toxicity	LC50 mg/l	1400		Lepomis macrochirus (Bluegill sunfish)		
	Acute algae toxicity	ErC50 mg/l	> 1000		Pseudokirchneriella subcapitata (green algae)	IUCLID	
	Acute crustacea toxicity	EC50 mg/l	13299	48 h	Daphnia magna (Water flea)	UICLID	

# 12.2. Persistence and degradability

no data available

# 12.3. Bioaccumulative potential

no data available

#### 12.4. Mobility in soil

no data available

#### 12.5. Results of PBT and vPvB assessment

no data available

#### 12.6. Other adverse effects

no data available

#### **Further information**

Should not be released into the environment.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

### Advice on disposal

In accordance with local and national regulations.

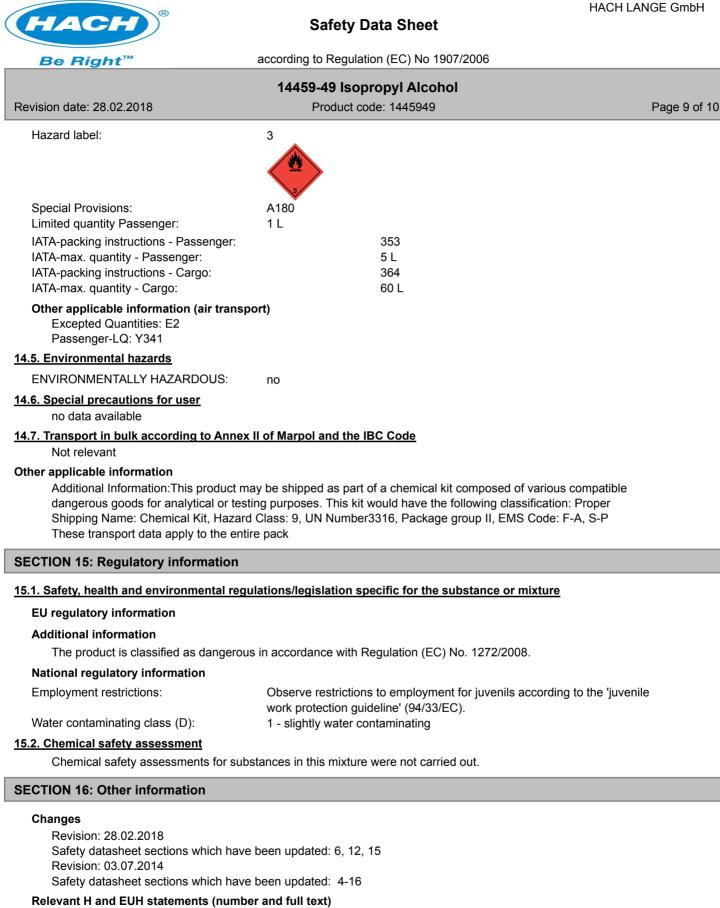
#### Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

#### Waste disposal number of used product



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discarded chemicals; la	WISE SPECIFIED IN THE LIST; gases in pressure containers and boratory chemicals, consisting of or containing hazardous substances, boratory chemicals; hazardous waste	
Contaminated packaging Dispose of as unused product.		
SECTION 14: Transport information		
Land transport (ADR/RID)		
<u>14.1. UN number:</u>	UN 1219	
14.2. UN proper shipping name:	ISOPROPANOL (ISOPROPYL ALCOHOL) solution	
<u>14.3. Transport hazard class(es):</u>	3	
14.4. Packing group:	II	
Hazard label:	3	
Classification code:	F1	
Special Provisions:	601	
Limited quantity:	1 L	
Transport category:	2	
Hazard No: Tunnel restriction code:	33 D/E	
Other applicable information (land tra Excepted Quantities: E2		
Inland waterways transport (ADN)		
Other applicable information (inland v Not tested	waterways transport)	
Marine transport (IMDG)		
14.1. UN number:	UN 1219	
14.2. UN proper shipping name:	ISOPROPANOL (ISOPROPYL ALCOHOL)	
14.3. Transport hazard class(es):	3	
14.4. Packing group:		
Hazard label:	3	
Marine pollutant:	-	
Special Provisions:	-	
Limited quantity:	1 L	
EmS:	F-E, S-D	
Other applicable information (marine Excepted Quantities: E2	transport)	
Air transport (ICAO-TI/IATA-DGR)		
<u>14.1. UN number:</u>	UN 1219	
14.2. UN proper shipping name:	ISOPROPANOL (ISOPROPYL ALCOHOL)	
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H225Highly flammable liquid and vapour.H319Causes serious eye irritation.H336May cause drowsiness or dizziness.



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# **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.