

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 01-Nov-2023 Revision Number 1.2

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

1.1. Product identifier

Product Name Affi-Gel Hz Hydrazide

**Catalogue Number(s)** 1536047, 1536050, 9701043

Nanoforms Not applicable

Pure substance/mixture Mixture

Contains Isopropyl alcohol

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

Recommended use Laboratory chemicals

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Corporate Headquarters

Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive Hercules, CA 94547

USA

Manufacturer

Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories Ltd

2000 Alfred Nobel Drive Hercules, California 94547

USA

**Legal Entity / Contact Address** 

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UK

Bio-Rad Laboratories Pvt. Ltd.

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122005 Haryana India

Bio-Rad Laboratories (Pty) Ltd.

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For further information, please contact

**Technical Service** 00800 00246 723

Ireland: Techsupport.UK@bio-rad.com India: support.india@bio-rad.com

South Africa: cdg\_techsupport\_eemea@bio-rad.com

1.4. Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Ireland: 353-19014670

CHEMTREC India: 000-800-100-7141 CHEMTREC South Africa: 0-800-983-611

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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### Affi-Gel Hz Hydrazide

Regulation (FC) No 1272/2008

Regulation (EC) NO 1272/2000	
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity — single exposure	Category 3 - (H336)
Category 3 Narcotic effects	
Flammable liquids	Category 2

#### 2.2. Label elements

Contains Isopropyl alcohol



Signal word Danger

#### **Hazard statements**

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H225 - Highly flammable liquid and vapour

## Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P312 - Call a POISON CENTER or doctor if you feel unwell

P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

#### 2.3. Other hazards

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

### 3.1 Substances

Not applicable

#### 3.2 Mixtures

	Chemical name	Weight-%	REACH registration number	`	Classification according to Regulation (EC) No.	•	M-Factor	M-Factor (long-term)
			namber	macx (40)	1272/2008 [CLP]	limit (SCL)		(long-term)
Ī	Isopropyl alcohol	50 - 100	No data available	(603-117-00	Eye Irrit. 2 (H319)	-	-	-
	67-63-0			-0)	STOT SE 3 (H336)			
				200-661-7	Flam. Liq. 2 (H225)			

### Full text of H- and EUH-phrases: see section 16

## **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	hour - dust/mist - mg/L	hour - vapour - mg/L	hour - gas - ppm

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Chemical name	Oral LD50 mg/kg		Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Isopropyl alcohol 67-63-0	1870	4059	Inhalation LC50 Rat >10000 ppm 6 h (no deaths occurred, vapor, Source: ECHA_API)	>10000 30.1002	Inhalation LC50 Rat >10000 ppm 6 h (no deaths occurred, vapor, Source: ECHA_API)

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a doctor.

**Self-protection of the first aider** Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid

contact with skin, eyes or clothing.

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

**Symptoms** May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapour

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomiting.

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

Note to doctors Treat symptomatically.

## **SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire

extinguishing water must be disposed of in accordance with local regulations.

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5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

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

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

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the

product must be grounded. Do not touch or walk through spilled material.

**Other information** Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if

safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A

vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand

or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labelled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

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

#### 7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid breathing vapours or mists. Keep away from

heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations** 

Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat,

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sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store according to product and label instructions.

## 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

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

### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulga	aria	Croatia
Isopropyl alcohol	-	TWA: 200 ppm	TWA: 200 ppm	STEL: 1225		TWA: 400 ppm
67-63-0		TWA: 500 mg/m <sup>3</sup>	TWA: 500 mg/m <sup>3</sup>	TWA: 980.	.0 mg/m <sup>3</sup>	TWA: 999 mg/m <sup>3</sup>
		STEL 800 ppm	STEL: 400 ppm			STEL: 500 ppm
		STEL 2000 mg/m <sup>3</sup>	STEL: 1000 mg/m <sup>3</sup>			STEL: 1250 mg/m <sup>3</sup>
Chemical name	Cyprus	Czech Republic	Denmark	Esto	nia	Finland
Isopropyl alcohol	-	TWA: 500 mg/m <sup>3</sup>	TWA: 200 ppm	TWA: 15	i0 ppm	TWA: 200 ppm
67-63-0		Ceiling: 1000 mg/m <sup>3</sup>	TWA: 490 mg/m <sup>3</sup>	TWA: 350		TWA: 500 mg/m <sup>3</sup>
		D*	STEL: 400 ppm	STEL: 25	50 ppm	STEL: 250 ppm
			STEL: 980 mg/m <sup>3</sup>	STEL: 600	$0 \text{ mg/m}^3$	STEL: 620 mg/m <sup>3</sup>
Chemical name	France	Germany TRGS	Germany DFG	Gree	ece	Hungary
Isopropyl alcohol	STEL: 400 ppm	TWA: 200 ppm	TWA: 200 ppm	TWA: 40	00 ppm	TWA: 500 mg/m <sup>3</sup>
67-63-0	STEL: 980 mg/m	TWA: 500 mg/m <sup>3</sup>	TWA: 500 mg/m <sup>3</sup>	TWA: 980	) mg/m <sup>3</sup>	STEL: 1000 mg/m <sup>3</sup>
			Peak: 400 ppm	STEL: 50		b*
			Peak: 1000 mg/m <sup>3</sup>	STEL: 122	25 mg/m <sup>3</sup>	
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latv	⁄ia	Lithuania
Isopropyl alcohol	TWA: 200 ppm	-	TWA: 200 ppm	TWA: 350	) mg/m³	TWA: 150 ppm
67-63-0	STEL: 400 ppm		TWA: 492 mg/m <sup>3</sup>	STEL: 600	$0 \text{ mg/m}^3$	TWA: 350 mg/m <sup>3</sup>
	Sk*		STEL: 400 ppm			STEL: 250 ppm
			STEL: 983 mg/m <sup>3</sup>			STEL: 600 mg/m <sup>3</sup>
Chemical name	Luxembourg	Malta	Netherlands	Norw		Poland
Isopropyl alcohol	-	-	-	TWA: 10	00 ppm	STEL: 1200 mg/m <sup>3</sup>
67-63-0				TWA: 245		TWA: 900 mg/m <sup>3</sup>
				STEL: 15		skóra*
				STEL: 306.:	25 mg/m <sup>3</sup>	
Chemical name	Portugal	Romania	Slovakia	Slove	enia	Spain
Isopropyl alcohol	TWA: 200 ppm	TWA: 81 ppm	TWA: 200 ppm	TWA: 20		TWA: 200 ppm
67-63-0	STEL: 400 ppm	TWA: 200 mg/m <sup>3</sup>	TWA: 500 mg/m <sup>3</sup>	TWA: 500	•	TWA: 500 mg/m <sup>3</sup>
		STEL: 203 ppm	Ceiling: 1000 mg/m <sup>3</sup>			STEL: 400 ppm
		STEL: 500 mg/m <sup>3</sup>		STEL: 100		STEL: 1000 mg/m <sup>3</sup>
Chemical name		Sweden	Switzerland			ted Kingdom
Isopropyl alcohol	NG	V: 150 ppm	TWA: 200 ppm			/A: 400 ppm
67-63-0		′: 350 mg/m³	TWA: 500 mg/n			A: 999 mg/m³
		de KGV: 250 ppm	STEL: 400 ppn			EL: 500 ppm
	Vägledand	e KGV: 600 mg/m <sup>3</sup>	STEL: 1000 mg/	m <sup>3</sup>	STEI	_: 1250 mg/m <sup>3</sup>

## **Biological occupational exposure limits**

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Isopropyl alcohol	-	-	-	50 mg/L - blood	-
67-63-0				(Acetone) - at the	
				end of the work shift	
				50 mg/L - urine	

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			,				
					(Acetone) - at		
					end of the work	shift	
Chemical name	Denmark	Finland	Fra	nce	Germany DF	-G	Germany TRGS
Isopropyl alcohol	-	-		-	25 mg/L - wh	ole	25 mg/L (whole
67-63-0					blood (Aceton	ne) -	blood - Acetone end
					end of shif	t	of shift)
					25 mg/L - uri	ine	25 mg/L (urine -
					(Acetone) - en	nd of	Acetone end of shift)
					shift		
Chemical name	Hungary	Irelan	d	Italy	/ MDLPS		Italy AIDII
Isopropyl alcohol	-	40 mg/L - urine	(Acetone)		-	40 m	ng/L - urine (Acetone)
67-63-0		- end of shift	at end of			- e	nd of shift at end of
		workwe	ek				workweek
Chemical name	Latvia	Luxembo	ourg	R	omania		Slovakia
Isopropyl alcohol	-	-		50 mg/L -	urine (Acetone)		-
67-63-0				- er	d of shift		
Chemical name	Slovenia	Spair	)	Sw	itzerland		United Kingdom
Isopropyl alcohol	25 mg/L - blood (Acetone	40 mg/L (urine	- Acetone	25 mg/L (	urine - Acetone		-
67-63-0	- at the end of the work	end of work	(week)	end	d of shift)		
	shift			0.4 mn	nol/L (urine -		
	25 mg/L - urine (Acetone)			Acetone	e end of shift)		
	- at the end of the work				(whole blood -		
	shift				e end of shift)		
				0.4 mmol/l	_ (whole blood -	ł	
				Acetone	e end of shift)		

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available.

#### 8.2. Exposure controls

#### Personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

**Environmental exposure controls** No information available.

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

### 9.1. Information on basic physical and chemical properties

Physical stateLiquidAppearanceSlurryColourcolourlessOdourAlcohol.

Odour threshold No information available

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Values Remarks • Method Property

°C -89.5 Melting point / freezing point

Initial boiling point and boiling range82 °C

Flammability No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

Lower flammability or explosive No data available

limits

13 °C Flash point 399 °C **Autoignition temperature** 

**Decomposition temperature** None known

No data available None known No information available No data available pH (as aqueous solution)

No data available None known Kinematic viscosity No data available Dynamic viscosity None known

Water solubility Partially miscible

Solubility(ies) No data available None known **Partition coefficient** No data available None known Vapour pressure No data available None known Relative density No data available None known

**Bulk density** No data available **Liquid Density** No data available Relative vapour density No data available

None known

Particle characteristics

No information available **Particle Size Particle Size Distribution** No information available

### 9.2. Other information

#### 9.2.1. Information with regards to physical hazard classes

Not applicable

#### 9.2.2. Other safety characteristics

No information available

## **SECTION 10: Stability and reactivity**

10.1. Reactivity

No information available. Reactivity

10.2. Chemical stability

Stable under normal conditions. Stability

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

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Hazardous decomposition products None known based on information supplied.

## **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. May cause drowsiness or dizziness.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. May cause irritation.

Prolonged contact may cause redness and irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhoea.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may

cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

#### Acute toxicity

#### **Numerical measures of toxicity**

No information available

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-vapour) 31.00 mg/l

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl alcohol	= 1870 mg/kg (Rat)	= 4059 mg/kg ( Rabbit )	> 10000 ppm (Rat) 6 h

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**No information available.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity**No information available.

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**STOT - single exposure** May cause drowsiness or dizziness.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

#### 11.2.2. Other information

Other adverse effects No information available.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

**Ecotoxicity**The environmental impact of this product has not been fully investigated.

**Unknown aquatic toxicity**Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Isopropyl alcohol	EC50: >1000mg/L (96h,	LC50: =9640mg/L (96h,	-	EC50: =13299mg/L (48h,
	Desmodesmus	Pimephales promelas)		Daphnia magna)
	subspicatus)	LC50: =11130mg/L (96h,		
	EC50: >1000mg/L (72h,	Pimephales promelas)		
	Desmodesmus	LC50: >1400000µg/L		
	subspicatus)	(96h, Lepomis		
		macrochirus)		

### 12.2. Persistence and degradability

Persistence and degradability No information available.

#### 12.3. Bioaccumulative potential

#### Bioaccumulation

**Component Information** 

Chemical name	Partition coefficient		
Isopropyl alcohol	0.05		

#### 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

#### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Isopropyl alcohol	The substance is not PBT / vPvB

## 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

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#### 12.7. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

## **SECTION 14: Transport information**

IATA

14.1 UN number or ID number UN1219 14.2 UN proper shipping name Isopropanol 14.3 Transport hazard class(es)

14.4 Packing group

UN1219, Isopropanol, 3, II Description

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

**Special Provisions** A180

**IMDG** 

14.1 UN number or ID number UN1219 14.2 UN proper shipping name **ISOPROPANOL** 

14.3 Transport hazard class(es) 14.4 Packing group

Description UN1219, ISOPROPANOL, 3, II, (13°C C.C.)

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

**Special Provisions** None EmS-No F-E. S-D

14.7 Maritime transport in bulk

according to IMO instruments

No information available

14.1 UN number UN1219 14.2 UN proper shipping name **ISOPROPANOL** 

14.3 Transport hazard class(es) 3 14.4 Packing group

Description UN1219, ISOPROPANOL, 3, II

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

**Special Provisions** 601 Classification code F1

ADR

14.1 UN number or ID number 1219

14.2 UN proper shipping name **ISOPROPANOL** 

14.3 Transport hazard class(es) 14.4 Packing group

Description 1219, ISOPROPANOL, 3, II

Not applicable 14.5 Environmental hazards

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14.6 Special Precautions for Users

Special Provisions 601 Classification code F1 Tunnel restriction code (D/E)

## **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

#### **France**

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Isopropyl alcohol 67-63-0	RG 84	-

#### Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

	Chemical name	Restricted substance per REACH	Substance subject to authorisation per
		Annex XVII	REACH Annex XIV
Ī	Isopropyl alcohol - 67-63-0	75.	-

#### **Persistent Organic Pollutants**

Not applicable

## Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Biocidal Products Regulation (EU) No 528/2012 (BPR)

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Isopropyl alcohol - 67-63-0	Product-type 2: Disinfectants and algaecides not intended
	for direct application to humans or animals Product-type 4:
	Food and feed area Product-type 1: Human hygiene

<u>International Inventories</u> Contact supplier for inventory compliance status

## 15.2. Chemical safety assessment

Chemical Safety Report No information available

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#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

**Revision Note** 

Reformatted and updated existing information

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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**End of Safety Data Sheet** 

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