

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 Previous Revision Number 1 03-May-2023 03-May-2023

revision date

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

1.1. Product identifier

Product Name Personal Genes in a Bottle Kit

Catalogue Number(s) 1667010, 1667010EDU

Not applicable **Nanoforms**

Pure substance/mixture Mixture

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 Manufacturer Bio-Rad Laboratories Inc. Bio-Rad Laboratories, Life Science Group

1000 Alfred Nobel Drive 2000 Alfred Nobel Drive Hercules, CA 94547 Hercules, California 94547

USA

USA

Legal Entity / Contact Address

Bio-Rad Laboratories Ltd The Junction

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> 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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Flammable liquids	Category 2

2.2. Label elements



Signal word Danger

Hazard statements

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

P233 - Keep container tightly closed

P363 - Wash contaminated clothing before reuse

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

P403 + P235 - Store in a well-ventilated place. Keep cool

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	EC No (EU	Classification according	Specific	M-Factor	M-Factor
		number	Index No)	to Regulation (EC) No.	concentration		(long-term)
				1272/2008 [CLP]	limit (SCL)		
Ethyl alcohol	50 - 100	No data available	(603-002-00	Flam. Liq. 2 (H225)	-	-	-
64-17-5			-5)				
			200-578-6				
Isopropyl alcohol	2.5 - 5	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
Ethyl alcohol	7060	No data available	Inhalation LC50 Rat	116.9	Inhalation LC50 Rat
64-17-5			116.9 mg/L 4 h (males,	133.8	116.9 mg/L 4 h
			vapor, Source:		(males, vapor,
			ECHA_API); Inhalation		Source: ECHA_API);

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Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
			LC50 Rat 133.8 mg/L 4 h (females, vapor, Source: ECHA_API) 116.9 133.8		Inhalation LC50 Rat 133.8 mg/L 4 h (females, vapor, Source: ECHA_API)
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

Inhalation Remove to fresh air.

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.

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

and shoes.

Ingestion Rinse mouth.

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.

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

Symptoms No information available.

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.

5.3. Advice for firefighters

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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.

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

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.

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.

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,

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

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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	Bulgaria	Croatia
Ethyl alcohol	-	TWA: 1000 ppm	TWA: 1000 ppm	TWA: 1000 mg/m ³	TWA: 1000 ppm
64-17-5		TWA: 1900 mg/m ³	TWA: 1907 mg/m ³		TWA: 1900 mg/m ³
		STEL 2000 ppm			
		STEL 3800 mg/m ³			
Isopropyl alcohol	-	TWA: 200 ppm	TWA: 200 ppm	STEL: 1225.0 mg/m ³	TWA: 400 ppm
67-63-0		TWA: 500 mg/m ³	TWA: 500 mg/m ³	TWA: 980.0 mg/m ³	TWA: 999 mg/m ³
		STEL 800 ppm	STEL: 400 ppm		STEL: 500 ppm
		STEL 2000 mg/m ³	STEL: 1000 mg/m ³		STEL: 1250 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ethyl alcohol	-	TWA: 1000 mg/m ³	TWA: 1000 ppm	TWA: 500 ppm	TWA: 1000 ppm
64-17-5		Ceiling: 3000 mg/m ³	TWA: 1900 mg/m ³	TWA: 1000 mg/m ³	TWA: 1900 mg/m ³
			STEL: 2000 ppm	STEL: 1000 ppm	STEL: 1300 ppm
			STEL: 3800 mg/m ³	STEL: 1900 mg/m ³	STEL: 2500 mg/m ³
Isopropyl alcohol	-	TWA: 500 mg/m ³	TWA: 200 ppm	TWA: 150 ppm	TWA: 200 ppm
67-63-0		Ceiling: 1000 mg/m ³	TWA: 490 mg/m ³	TWA: 350 mg/m ³	TWA: 500 mg/m ³
		D*	STEL: 400 ppm	STEL: 250 ppm	STEL: 250 ppm
			STEL: 980 mg/m ³	STEL: 600 mg/m ³	STEL: 620 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Ethyl alcohol	TWA: 1000 ppm	TWA: 200 ppm	TWA: 200 ppm	TWA: 1000 ppm	TWA: 1900 mg/m ³
64-17-5	TWA: 1900 mg/m ³	TWA: 380 mg/m ³	TWA: 380 mg/m ³	TWA: 1900 mg/m ³	STEL: 3800 mg/m ³
	STEL: 5000 ppm		Peak: 800 ppm		
	STEL: 9500 mg/m ³		Peak: 1520 mg/m ³		
Isopropyl alcohol	STEL: 400 ppm	TWA: 200 ppm	TWA: 200 ppm	TWA: 400 ppm	TWA: 500 mg/m ³
67-63-0	STEL: 980 mg/m ³	TWA: 500 mg/m ³	TWA: 500 mg/m ³	TWA: 980 mg/m ³	STEL: 1000 mg/m ³
			Peak: 400 ppm	STEL: 500 ppm	b*
			Peak: 1000 mg/m ³	STEL: 1225 mg/m ³	
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Ethyl alcohol	STEL: 1000 ppm	-	STEL: 1000 ppm	TWA: 1000 mg/m ³	TWA: 500 ppm
64-17-5			STEL: 1884 mg/m ³		TWA: 1000 mg/m ³
					STEL: 1000 ppm
	T14/4 000		T14/4 000	T14/4 050 / 0	STEL: 1900 mg/m ³
Isopropyl alcohol	TWA: 200 ppm	-	TWA: 200 ppm	TWA: 350 mg/m ³	TWA: 150 ppm
67-63-0	STEL: 400 ppm		TWA: 492 mg/m ³	STEL: 600 mg/m ³	TWA: 350 mg/m ³
	Sk*		STEL: 400 ppm		STEL: 250 ppm
Chamical rama	Lungarahanna	Malta	STEL: 983 mg/m ³	Namusu	STEL: 600 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Ethyl alcohol	-	-	TWA: 260 mg/m ³	TWA: 500 ppm	TWA: 1900 mg/m ³
64-17-5			STEL: 1900 mg/m ³	TWA: 950 mg/m ³	
			H*	STEL: 625 ppm	
Isopropyl alcohol	_			STEL: 1187.5 mg/m ³ TWA: 100 ppm	STEL: 1200 mg/m ³
isopropyi aiconoi 67-63-0	-	-	-	TWA: 100 ppm TWA: 245 mg/m ³	TWA: 900 mg/m ³
07-03-0				STEL: 150 ppm	skóra*
				STEL: 150 ppm STEL: 306.25 mg/m ³	SKOTA
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Ethyl alcohol	STEL: 1000 ppm	TWA: 1000 ppm	TWA: 500 ppm	TWA: 960 mg/m ³	STEL: 1000 ppm
64-17-5		TWA: 1900 ppm TWA: 1900 mg/m ³	TWA: 960 mg/m ³	TWA: 500 mg/m ³	STEL: 1910 mg/m ³
U4-17-5	l	L LVVA. 1900 mg/m ³	TWA. 900 mg/m	I WA. 500 ppm	SIEL. 1910 IIIg/M°

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			STEL: 5000 ppm	Ceiling: 1920 mg/m³		1000 ppm	
			STEL: 9500 mg/m	3	STEL: 1	920 mg/m ³	
Isopropyl alcohol	TW	A: 200 ppm	TWA: 81 ppm	TWA: 200 ppm	TWA:	200 ppm	TWA: 200 ppm
67-63-0	STE	L: 400 ppm	TWA: 200 mg/m ³	TWA: 500 mg/m ³	TWA: 5	600 mg/m ³	TWA: 500 mg/m ³
			STEL: 203 ppm	Ceiling: 1000 mg/m ³	STEL:	400 ppm	STEL: 400 ppm
			STEL: 500 mg/m ³			000 mg/m ³	STEL: 1000 mg/m ³
Chemical name		Sweden		Switzerland		Un	ited Kingdom
Ethyl alcohol		NGV:	500 ppm	TWA: 500 ppm		TWA: 1000 ppm	
64-17-5		NGV: 1	000 mg/m ³	TWA: 960 mg/m ³		TWA	A: 1920 mg/m ³
		Vägledande	KGV: 1000 ppm	STEL: 1000 ppm		STI	EL: 3000 ppm
		Vägledande k	KGV: 1900 mg/m ³	STEL: 1920 mg/m ³		STE	L: 5760 mg/m ³
Isopropyl alcohol		NGV: 150 ppm		TWA: 200 ppm		TWA: 400 ppm	
67-63-0		NGV: 350 mg/m ³		TWA: 500 mg/m ³		TW	A: 999 mg/m ³
		Vägledande	KGV: 250 ppm	STEL: 400 ppm	า	ST	EL: 500 ppm
		Vägledande	KGV: 600 mg/m ³	STEL: 1000 mg/m ³		STE	L: 1250 mg/m ³

Biological occupational exposure limits

European Union	Austria	Bulg	garia	Croatia		Czech Republic
-	-	-	=			-
Danasadi	Find and	Г				
Denmark	Finland	Fra	nce			Germany TRGS
-	-		-			25 mg/L (whole
					,	blood - Acetone end
						of shift) 25 mg/L (urine -
					ia oi	/ toctoric cria or smirt)
Hungary	Ireland	d	Italy			Italy AIDII
-	40 mg/L - urine	(Acetone)		-	40 m	g/L - urine (Acetone)
						nd of shift at end of
	workwe	ek				workweek
Latvia	Luxembo	ourg	R	omania		Slovakia
-	-		50 mg/L -	urine (Acetone)		-
0.00.00.00			_			United Kingdom
						-
	rk end of work	(week)		,		
• • • • • • • • • • • • • • • • • • • •	,			•		
	K					
SHIIL						
	Denmark - Hungary - Latvia - Slovenia 25 mg/L - blood (Acetor at the end of the worshift) 25 mg/L - urine (Acetor Acetor Acetor)	Denmark Finland	Denmark Finland Fra Hungary Ireland Hungary Ireland 40 mg/L - urine (Acetone) - end of shift at end of workweek Latvia Luxembourg Slovenia Spain 25 mg/L - blood (Acetone) - at the end of the work shift 25 mg/L - urine (Acetone) - at the end of the work shift	Denmark Finland France	- 50 mg/L - bloc (Acetone) - at end of the work 50 mg/L - urin (Acetone) - at end of the work 50 mg/L - urin (Acetone) - at end of the work 50 mg/L - urin (Acetone) - at end of the work 50 mg/L - urin (Acetone) - end of shift 25 mg/L - urin (Acetone) - end of shift at end of workweek Latvia	- - - 50 mg/L - blood (Acetone) - at the end of the work shift 50 mg/L - urine (Acetone) - at the end of the work shift 50 mg/L - urine (Acetone) - at the end of the work shift 50 mg/L - whole blood (Acetone) - end of shift 25 mg/L - urine (Acetone) - end of shift 25 mg/L - urine (Acetone) - end of shift at end of workweek Latvia

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.

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

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.

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

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.

No information available. **Environmental exposure controls**

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

Appearance Colour light blue Alcohol. Odour

No information available **Odour threshold**

Property Values No data available

Miscible in water

No data available

No information available

No information available

Melting point / freezing point

Boiling point / boiling range

Flammability (solid, gas)

Flammability Limit in Air

Upper flammability or explosive

limits

Lower flammability or explosive

limits

Flash point 13 °C

Autoignition temperature Decomposition temperature

pH (as aqueous solution)

Kinematic viscosity

Dynamic viscosity Water solubility Solubility(ies)

Partition coefficient Vapour pressure Relative density **Bulk density**

Liquid Density Vapour density

Particle characteristics Particle Size

Particle Size Distribution

9.2. Other information

aqueous solution

78 °C

Remarks • Method

None known

None known

None known

No data available None known

None known

No information available

None known None known

None known None known None known None known

None known

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

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Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge Yes.

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 materialsNone known based on information supplied.

10.6. Hazardous decomposition products

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.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

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

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

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

ATEmix (oral) 8,940.30 mg/kg
ATEmix (inhalation-dust/mist) 148.00 mg/l
ATEmix (inhalation-vapour) 152.60 mg/l

Component Information

	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ī	Ethyl alcohol	= 7060 mg/kg (Rat)	-	= 116.9 mg/L (Rat) 4 h
	•			= 133.8 mg/L (Rat) 4 h
	Isopropyl alcohol	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	> 10000 ppm (Rat) 6 h

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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 No information available.

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

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 Toxic to aquatic life.

Unknown aquatic toxicityContains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethyl alcohol	-	LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss) LC50: >100mg/L (96h, Pimephales promelas) LC50: 13400 - 15100mg/L (96h, Pimephales promelas)	-	LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna)
Isopropyl alcohol	EC50: >1000mg/L (96h, Desmodesmus subspicatus)	LC50: =9640mg/L (96h, Pimephales promelas) LC50: =11130mg/L (96h,	<u>-</u>	EC50: =13299mg/L (48h, Daphnia magna)

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		T	
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

Component information					
Chemical name Ethyl alcohol		Partition coefficient			
		-0.35			
	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
Ethyl alcohol	The substance is not PBT / vPvB
Isopropyl alcohol	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

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

<u>IATA</u>

14.1 UN number or ID number UN1993

14.2 UN proper shipping name Medicines, flammable, liquid, n.o.s. (Ethyl alcohol, Isopropyl alcohol)

14.3 Transport hazard class(es)
14.4 Packing group

II UN1993, Medicines, flammable, liquid, n.o.s. (Ethyl alcohol, Isopropyl alcohol), 3, II

Description
14.5 Environmental hazards

Not applicable

14.6 Special Precautions for Users

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Special Provisions A3

IMDG

14.1 UN number or ID number UN1993

14.2 UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Ethyl alcohol, Isopropyl alcohol)

14.3 Transport hazard class(es)14.4 Packing group

Description UN1993, FLAMMABLE LIQUID, N.O.S. (Ethyl alcohol, Isopropyl alcohol), 3, II, (13°C C.C.)

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

Special Provisions 274 EmS-No F-E, S-E

14.7 Maritime transport in bulk according to IMO instruments

No information available

<u>RID</u>

14.1 UN number UN1993

14.2 UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Ethyl alcohol, Isopropyl alcohol)

14.3 Transport hazard class(es) 3 14.4 Packing group

Description UN1993, FLAMMABLE LIQUID, N.O.S. (Ethyl alcohol, Isopropyl alcohol), 3, II

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

Special Provisions 274, 601, 640D

Classification code F1

<u>ADR</u>

14.1 UN number or ID number 1993

14.2 UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Ethyl alcohol, Isopropyl alcohol)

14.3 Transport hazard class(es) 3 14.4 Packing group ||

Description 1993, FLAMMABLE LIQUID, N.O.S. (Ethyl alcohol, Isopropyl alcohol), 3, II

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

Special Provisions 274, 601, 640C

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)

obapational filliopoco (N 400 0) I fallouj					
Chemical name	French RG number	Title			
Ethyl alcohol 64-17-5	RG 84	-			
Isopropyl alcohol 67-63-0	RG 84	-			

Netherlands

Chemical name	Netherlands - List of	Netherlands - List of	Netherlands - List of
	Carcinogens	Mutagens	Reproductive Toxins
Ethyl alcohol	Present	-	Fertility Category 1A Development Category 1A Can be harmful via breastfeeding

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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)

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)
Ethyl alcohol - 64-17-5	Product-type 1: Human hygiene Product-type 2:
	Disinfectants and algaecides not intended for direct
	application to humans or animals Product-type 4: Food and
	feed area
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

International Inventories Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

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

ssification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method

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Calculation method
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 Significant changes throughout SDS. Review all sections

Revision date 03-May-2023

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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