

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 2025-01-14 **Revision Number** 5

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

1.1. Product identifier

Product Code 631626

Product Name Linear Puromycin Marker

Pure substance/mixture Mixture

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

Identified uses For research use only. Not for use in diagnostic procedures

No information available Uses advised against

1.3. Details of the supplier of the safety data sheet

Supplier

USA:

Takara Bio USA, Inc. 2560 Orchard Parkway San Jose, CA 95131, USA Phone: 800.662.2566/888.251.6618

Web: www.takarabio.com

Europe:

Takara Bio Europe S.A.S. 34. Rue de la Croix de Fer 78100 Saint-Germain-en-Laye, France

Phone: +33.1.39.04.68.80 Web: www.takarabio.com

Europe:

Takara Bio Europe AB Arvid Wallgrens Backe 20, SE-413 46 Göteborg, Sweden Phone: +46.31.758.09.00

Web: www.takarabio.com

India:

DSS Takara Bio India Pvt. Ltd. A-5 Mohan Co-operative Industrial Estate, Mathura Road,

New Delhi 110044, India

Phone: +91.1800.212.4922 (Toll free)

Web: www.takarabio.com

For further information, please contact:

1.4. Emergency telephone number

Emergency telephone In case of emergency, call PERS (Professional Emergency Resource Services)

1-800-633-8253 (US) or 801-629-0667 (international).

Marco Marano Italy

CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA Roma, Piazza Sant'Onofrio,4 00165
0668593726

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to

Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment - chronic Category 2 - (H411)

2.2. Label elements



Hazard statements

H411 - Toxic to aquatic life with long lasting effects

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

P273 - Avoid release to the environment

P391 - Collect spillage

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

2.3. Other hazards

Causes mild skin irritation. Toxic to aquatic life.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration	,	Classification according		M-Factor	M-Factor
		number	Index No)	to Regulation (EC) No.	concentration		(long-term)
				1272/2008 [CLP]	limit (SCL)		
ETHANOL, 100%	40 - 50	No data available	200-578-6	Flam. Liq. 2 (H225)	-	-	-
(ANHYDROS)			(603-002-00-5)				
64-17-5							
ACETIC ACID,	1 - 5	No data available	200-580-7	Flam. Liq. 3 (H226)	Eye Irrit. 2 ::	-	-
GLACIAL			(607-002-00-6)	Skin Corr. 1A (H314)	10%<=C<25%		
64-19-7					Skin Corr. 1A::		
					C>=90%		
					Skin Corr. 1B ::		
					25%<=C<90%		
					Skin Irrit. 2 ::		
					10%<=C<25%		

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 - vapor - mg/L	hour - gas - ppm
ETHANOL, 100% (ANHYDROS) 64-17-5	7060	No data available	116.9 133.8	No data available	No data available
ACETIC ACID, GLACIAL 64-19-7	3310	1060	11.4	No data available	No data available

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 thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contactWash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

Ingestion Rinse mouth.

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

Symptoms Prolonged contact may cause redness and irritation.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

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

No information available.

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 Ensure adequate ventilation.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

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 Ensure adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
ETHANOL, 100%	-	TWA: 1000 ppm	TWA: 1000 ppm	TWA: 1000 mg/m ³	TWA: 1000 ppm
(ANHYDROS)		TWA: 1900 mg/m ³	TWA: 1907 mg/m ³		TWA: 1900 mg/m ³
64-17-5		STEL 2000 ppm			
		STEL 3800 mg/m ³			
ACETIC ACID, GLACIAL	TWA: 25 mg/m ³	TWA: 10 ppm	TWA: 10 ppm	TWA: 25 mg/m ³	TWA: 10 ppm
64-19-7	TWA: 10 ppm	TWA: 25 mg/m ³	TWA: 25 mg/m ³	TWA: 10 ppm	TWA: 25 mg/m ³

		T	T			
	STEL: 50 mg/m ³	STEL 20 ppm	STEL: 15 ppm		50 mg/m ³	STEL: 20 ppm
	STEL: 20 ppm	STEL 50 mg/m ³	STEL: 38 mg/m ³		20 ppm	STEL: 50 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark		onia	Finland
ETHANOL, 100%	-	TWA: 1000 mg/m ³	TWA: 1000 ppm		500 ppm	TWA: 1000 ppm
(ANHYDROS)		Ceiling: 3000 mg/m ³			00 mg/m ³	TWA: 1900 mg/m ³
64-17-5			STEL: 2000 ppm		000 ppm	STEL: 1300 ppm
			STEL: 3800 mg/m ³		000 mg/m ³	STEL: 2500 mg/m ³
ACETIC ACID, GLACIAL	TWA: 10 ppm	TWA: 25 mg/m ³	TWA: 10 ppm		10 ppm	TWA: 5 ppm
64-19-7	TWA: 25 mg/m ³	Ceiling: 50 mg/m ³	TWA: 25 mg/m ³		5 mg/m ³	TWA: 13 mg/m ³
	STEL: 50 mg/m ³		STEL: 50 mg/m ³		10 ppm	STEL: 10 ppm
	STEL: 20 ppm		STEL: 20 ppm		25 mg/m ³	STEL: 25 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG		ece	Hungary
ETHANOL, 100%	TWA: 1000 ppm	TWA: 200 ppm	TWA: 200 ppm		000 ppm	TWA: 1000 ppm
(ANHYDROS)	TWA: 1900 mg/m ³	TWA: 380 mg/m ³	TWA: 380 mg/m ³	TWA: 19	00 mg/m ³	TWA: 1900 mg/m ³
64-17-5	STEL: 5000 ppm		Peak: 800 ppm			STEL: 2000 ppm
	STEL: 9500 mg/m		Peak: 1520 mg/m ³			STEL: 3800 mg/m ³
ACETIC ACID, GLACIAL	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm		10 ppm	TWA: 10 ppm
64-19-7	TWA: 25 mg/m ³	TWA: 25 mg/m ³	TWA: 25 mg/m ³		5 mg/m ³	TWA: 25 mg/m ³
	STEL: 20 ppm		Peak: 20 ppm		15 ppm	STEL: 20 ppm
	STEL: 50 mg/m ³		Peak: 50 mg/m ³		37 mg/m ³	STEL: 50 mg/m ³
Chemical name	Ireland	Italy MDLPS	Italy AIDII		tvia	Lithuania
ETHANOL, 100%	STEL: 1000 ppm	-	STEL: 1000 ppm	TWA: 10	00 mg/m ³	TWA: 500 ppm
(ANHYDROS)			STEL: 1884 mg/m ³			TWA: 1000 mg/m ³
64-17-5						STEL: 1000 ppm
						STEL: 1900 mg/m ³
ACETIC ACID, GLACIAL	TWA: 10 ppm	TWA: 25 ppm	TWA: 10 ppm		10 ppm	TWA: 10 ppm
64-19-7	TWA: 25 mg/m ³	TWA: 10 mg/m ³	TWA: 25 mg/m ³		5 mg/m³	TWA: 25 mg/m ³
	STEL: 20 ppm	STEL: 50 mg/m ³	STEL: 15 ppm		50 mg/m ³	STEL: 50 mg/m ³
	STEL: 50 mg/m ³	STEL: 20 ppm	STEL: 37 mg/m ³	STFL	20 ppm	STEL: 20 ppm
	0122.001119/111		OTEL: 07 mg/m			
Chemical name	Luxembourg	Malta	Netherlands	Noi	way	Poland
ETHANOL, 100%			Netherlands TWA: 137 ppm	Noi TWA: 5	way 500 ppm	
ETHANOL, 100% (ANHYDROS)			Netherlands TWA: 137 ppm TWA: 260 mg/m ³	Noi TWA: 5 TWA: 9	way 500 ppm 50 mg/m ³	Poland
ETHANOL, 100%			Netherlands TWA: 137 ppm TWA: 260 mg/m³ STEL: 1000 ppm	TWA: 5 TWA: 95 STEL: 0	way 500 ppm 50 mg/m ³ 525 ppm	Poland TWA: 1900 mg/m ³
ETHANOL, 100% (ANHYDROS)			Netherlands TWA: 137 ppm TWA: 260 mg/m³ STEL: 1000 ppm STEL: 1900 mg/m³	TWA: 5 TWA: 95 STEL: 0	way 500 ppm 50 mg/m ³	Poland TWA: 1900 mg/m ³
ETHANOL, 100% (ANHYDROS) 64-17-5	Luxembourg -	Malta -	Netherlands TWA: 137 ppm TWA: 260 mg/m³ STEL: 1000 ppm STEL: 1900 mg/m³ Sk*	Noi TWA: 5 TWA: 95 STEL: 0 STEL: 118	way 500 ppm 50 mg/m ³ 525 ppm 37.5 mg/m ³	Poland TWA: 1900 mg/m ³
ETHANOL, 100% (ANHYDROS) 64-17-5	Luxembourg - TWA: 10 ppm	Malta - TWA: 10 ppm	Netherlands TWA: 137 ppm TWA: 260 mg/m³ STEL: 1000 ppm STEL: 1900 mg/m³ Sk* TWA: 10 ppm	Noi TWA: 5 TWA: 95 STEL: 0 STEL: 118	way 500 ppm 50 mg/m ³ 525 ppm 37.5 mg/m ³	Poland TWA: 1900 mg/m³ TWA: 25 mg/m³
ETHANOL, 100% (ANHYDROS) 64-17-5	Luxembourg - TWA: 10 ppm TWA: 25 mg/m³	TWA: 10 ppm TWA: 25 mg/m³	Netherlands TWA: 137 ppm TWA: 260 mg/m³ STEL: 1000 ppm STEL: 1900 mg/m³ Sk* TWA: 10 ppm TWA: 25 mg/m³	Noi TWA: 5 TWA: 95 STEL: 0 STEL: 118 TWA: 1	way 500 ppm 50 mg/m ³ 525 ppm 37.5 mg/m ³ 10 ppm 5 mg/m ³	Poland TWA: 1900 mg/m ³
ETHANOL, 100% (ANHYDROS) 64-17-5	TWA: 10 ppm TWA: 25 mg/m³ STEL: 50 mg/m³	TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm	Netherlands TWA: 137 ppm TWA: 260 mg/m³ STEL: 1000 ppm STEL: 1900 mg/m³ Sk* TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm	No: 5 TWA: 5 TWA: 95 STEL: 11 STEL: 118 TWA: 2 STEL:	way 500 ppm 50 mg/m ³ 525 ppm 37.5 mg/m ³ 10 ppm 5 mg/m ³ 20 ppm	Poland TWA: 1900 mg/m³ TWA: 25 mg/m³
ETHANOL, 100% (ANHYDROS) 64-17-5	Luxembourg - TWA: 10 ppm TWA: 25 mg/m³	TWA: 10 ppm TWA: 25 mg/m³	Netherlands TWA: 137 ppm TWA: 260 mg/m³ STEL: 1000 ppm STEL: 1900 mg/m³ Sk* TWA: 10 ppm TWA: 25 mg/m³	No. TWA: 9 TWA: 9 STEL: 0 STEL: 118 TWA: 2 STEL: STEL: 5	way 500 ppm 50 mg/m ³ 525 ppm 37.5 mg/m ³ 10 ppm 5 mg/m ³ 20 ppm 50 mg/m ³	Poland TWA: 1900 mg/m ³ TWA: 25 mg/m ³
ETHANOL, 100% (ANHYDROS) 64-17-5 ACETIC ACID, GLACIAL 64-19-7	TWA: 10 ppm TWA: 25 mg/m³ STEL: 50 mg/m³ STEL: 20 ppm	TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm STEL: 50 mg/m³	Netherlands TWA: 137 ppm TWA: 260 mg/m³ STEL: 1000 ppm STEL: 1900 mg/m³ Sk* TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm STEL: 50 mg/m³	No. TWA: 5 TWA: 95 STEL: 11 TWA: 2 STEL: 5 STEL: 5	way 500 ppm 50 mg/m ³ 525 ppm 37.5 mg/m ³ 10 ppm 5 mg/m ³ 20 ppm 50 mg/m ³	Poland TWA: 1900 mg/m³ TWA: 25 mg/m³ STEL: 50 mg/m³
ETHANOL, 100% (ANHYDROS) 64-17-5 ACETIC ACID, GLACIAL 64-19-7 Chemical name	TWA: 10 ppm TWA: 25 mg/m³ STEL: 50 mg/m³ STEL: 20 ppm	TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm STEL: 50 mg/m³	Netherlands TWA: 137 ppm TWA: 260 mg/m³ STEL: 1000 ppm STEL: 1900 mg/m³ Sk* TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm STEL: 50 mg/m³	No. TWA: 9 TWA: 9 STEL: 0 STEL: 118 TWA: 2 STEL: 5 STEL: 5	way 500 ppm 50 mg/m ³ 525 ppm 37.5 mg/m ³ 10 ppm 5 mg/m ³ 20 ppm 50 mg/m ³ A+	Poland TWA: 1900 mg/m³ TWA: 25 mg/m³ STEL: 50 mg/m³
ETHANOL, 100% (ANHYDROS) 64-17-5 ACETIC ACID, GLACIAL 64-19-7 Chemical name ETHANOL, 100%	TWA: 10 ppm TWA: 25 mg/m³ STEL: 50 mg/m³ STEL: 20 ppm	TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm STEL: 50 mg/m³ Romania TWA: 1000 ppm	Netherlands TWA: 137 ppm TWA: 260 mg/m³ STEL: 1000 ppm STEL: 1900 mg/m³ Sk* TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm STEL: 50 mg/m³	Noi TWA: 99 STEL: 0 STEL: 118 TWA: 2 STEL: 5 F Slow	way 500 ppm 50 mg/m ³ 525 ppm 37.5 mg/m ³ 10 ppm 5 mg/m ³ 20 ppm 50 mg/m ³ A+ venia 60 mg/m ³	Poland TWA: 1900 mg/m³ TWA: 25 mg/m³ STEL: 50 mg/m³ Spain STEL: 1000 ppm
ETHANOL, 100% (ANHYDROS) 64-17-5 ACETIC ACID, GLACIAL 64-19-7 Chemical name ETHANOL, 100% (ANHYDROS)	TWA: 10 ppm TWA: 25 mg/m³ STEL: 50 mg/m³ STEL: 20 ppm	TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm STEL: 50 mg/m³ Romania TWA: 1000 ppm TWA: 1900 mg/m³	Netherlands TWA: 137 ppm TWA: 260 mg/m³ STEL: 1000 ppm STEL: 1900 mg/m³ Sk* TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm STEL: 50 mg/m³ Slovakia TWA: 500 ppm TWA: 960 mg/m³	Non TWA: 99 STEL: 0 STEL: 118 TWA: 2 STEL: STEL: 5 F Slow TWA: 59 TWA: 5	way 500 ppm 50 mg/m ³ 525 ppm 37.5 mg/m ³ 10 ppm 5 mg/m ³ 20 ppm 50 mg/m ³ A+ venia 60 mg/m ³	Poland TWA: 1900 mg/m³ TWA: 25 mg/m³ STEL: 50 mg/m³
ETHANOL, 100% (ANHYDROS) 64-17-5 ACETIC ACID, GLACIAL 64-19-7 Chemical name ETHANOL, 100%	TWA: 10 ppm TWA: 25 mg/m³ STEL: 50 mg/m³ STEL: 20 ppm	TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm STEL: 50 mg/m³ Romania TWA: 1000 ppm TWA: 1900 mg/m³ STEL: 5000 ppm	Netherlands TWA: 137 ppm TWA: 260 mg/m³ STEL: 1000 ppm STEL: 1900 mg/m³ Sk* TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm STEL: 50 mg/m³	Noo TWA: 99 STEL: 0 STEL: 118 TWA: 2 STEL: 5 F Sloo TWA: 96 TWA: 5 STEL: 1	way 500 ppm 50 mg/m ³ 525 ppm 537.5 mg/m ³ 10 ppm 5 mg/m ³ 20 ppm 50 mg/m ³ A+ venia 50 mg/m ³ 500 ppm 000 ppm	Poland TWA: 1900 mg/m³ TWA: 25 mg/m³ STEL: 50 mg/m³ Spain STEL: 1000 ppm
ETHANOL, 100% (ANHYDROS) 64-17-5 ACETIC ACID, GLACIAL 64-19-7 Chemical name ETHANOL, 100% (ANHYDROS) 64-17-5	TWA: 10 ppm TWA: 25 mg/m³ STEL: 50 mg/m³ STEL: 20 ppm Portugal STEL: 1000 ppm	TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm STEL: 50 mg/m³ Romania TWA: 1000 ppm TWA: 1900 mg/m³ STEL: 5000 ppm STEL: 9500 mg/m³	Netherlands TWA: 137 ppm TWA: 260 mg/m³ STEL: 1000 ppm STEL: 1900 mg/m³ Sk* TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm STEL: 50 mg/m³ Slovakia TWA: 500 ppm TWA: 960 mg/m³ Ceiling: 1920 mg/m³	Noi TWA: 90 STEL: 0 STEL: 118 TWA: 2 STEL: 5 SIO TWA: 90 TWA: 90 STEL: 1 STEL: 1	way 500 ppm 50 mg/m ³ 525 ppm 37.5 mg/m ³ 10 ppm 5 mg/m ³ 20 ppm 50 mg/m ³ A+ venia 60 mg/m ³ 500 ppm 000 ppm 020 mg/m ³	Poland TWA: 1900 mg/m³ TWA: 25 mg/m³ STEL: 50 mg/m³ Spain STEL: 1000 ppm STEL: 1910 mg/m³
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Biological occupational exposure limitsThis product, as supplied, does not contain any hazardous materials with biological limits established by the region specific

regulatory bodies.

Derived No Effect Level (DNEL) Predicted No Effect Concentration

No information available. No information available.

(PNEC)

8.2. Exposure controls

Personal Protective Equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

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

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

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

Appearance Clear, colorless

Color Clear Odor None

Odor Threshold No information available

Values Remarks • Method Property

Melting point / freezing point No data available None known Boiling point/boiling range (°C) No data available None known Flammability (solid, gas) No data available None known

Flammability Limit in Air None known

Upper flammability limit: No data available Lower flammability limit: No data available

No data available Open cup Flash point No data available None known **Autoignition temperature Decomposition temperature** None known

рΗ No data available None known

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

Dynamic Viscosity No data available None known Water solubility No data available None known Solubility in other solvents No data available None known No data available **Partition coefficient** None known Vapor pressure No data available None known Relative density No data available None known

Bulk Density No data available **Liquid Density** No data available

Vapor density No data available None known

Particle characteristics

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

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion Data

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

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid

Conditions to avoidNone known based on information supplied.

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. Causes mild skin irritation.

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

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Prolonged contact may cause redness and irritation.

Numerical measures of toxicity

Acute toxicity

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

 ATEmix (oral)
 7,107.80 mg/kg

 ATEmix (dermal)
 7,584.70 mg/kg

 ATEmix (inhalation-dust/mist)
 39.20 mg/l

Unknown acute toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
ETHANOL, 100% (ANHYDROS)	= 7060 mg/kg (Rat)	-	= 116.9 mg/L (Rat) 4 h
			= 133.8 mg/L (Rat) 4 h
ACETIC ACID, GLACIAL	= 3310 mg/kg (Rat)	= 1060 mg/kg (Rabbit)	= 11.4 mg/L (Rat) 4 h

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

Skin corrosion/irritationClassification based on data available for ingredients. Causes mild skin irritation.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization 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 No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

EcotoxicityToxic to aquatic life. Toxic to aquatic life with long lasting effects.

Unknown aquatic toxicityContains 24.3667 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
ETHANOL, 100% (ANHYDROS)	-	LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss) LC50: >100mg/L (96h, Pimephales promelas) LC50: 13400 - 15100mg/L (96h, Pimephales promelas)	<u>-</u>	LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna)
ACETIC ACID, GLACIAL	<u>-</u>	LC50: =79mg/L (96h, Pimephales promelas) LC50: =75mg/L (96h, Lepomis macrochirus)	-	EC50: =65mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
ETHANOL, 100% (ANHYDROS)	-0.35
ACETIC ACID, GLACIAL	-0.17

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment
ETHANOL, 100% (ANHYDROS)	The substance is not PBT / vPvB PBT assessment does
	not apply
ACETIC ACID, GLACIAL	The substance is not PBT / vPvB PBT assessment does
	not apply

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

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number Not regulated

14.2 UN proper shipping name No information available

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

<u>IMDG</u>

14.1 UN number or ID number Not regulated

14.2 UN proper shipping name No information available

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

14.7 Maritime transport in bulk No information available according to IMO instruments

RID

14.1 UN number or ID number Not regulated

14.2 UN proper shipping name No information available

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

ADR

14.1 UN number or ID number Not regulated

14.2 UN proper shipping name No information available

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

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)

Occupational infecces (it 400 of France)		
Chemical name	French RG number	Title
ETHANOL, 100% (ANHYDROS)	RG 84	-
64-17-5		

Germany

TA Luft (German Air Pollution Control Regulation)

Netherlands

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
ETHANOL, 100% (ANHYDROS)	Present	-	Fertility Category 1A
			Development Category 1A
			Can be harmful via
			breastfeeding

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.

Authorizations 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 Annex XVII	Substance subject to authorization per REACH Annex XIV
ACETIC ACID, GLACIAL - 64-19-7	75	-

Persistent Organic Pollutants

Not applicable

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

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable

EU - Plant Protection Products (1107/2009/EC)

Chemical name	EU - Plant Protection Products (1107/2009/EC)
ACETIC ACID, GLACIAL - 64-19-7	Plant protection agent

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

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
ETHANOL, 100% (ANHYDROS) - 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
ACETIC ACID, GLACIAL - 64-19-7	Product-type 2: Disinfectants and algaecides not intended
	for direct application to humans or animals Simplified
	procedure - Category 1

International Inventories

TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECI PICCS AICS -

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Assessment No information available

SECTION 16: Other information

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

Full text of any hazard and/or precautionary statements referred to under Sections 2-15

H225 - Highly flammable liquid and vapor

H226 - Flammable liquid and vapor

H314 - Causes severe skin burns and eye damage

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA Time weighted average STEL Short term exposure limit Ceiling Maximum limit value * Skin designation * Sensitizers

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 - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	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)

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)

Australia 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)

U.S. National Toxicology Program (NTP)

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

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

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

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

World Health Organization

Revision Date

2025-01-14

This 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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