

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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

1.1 Product identifier

Trade name Product code EC-No.	:	1,4-Anhydroerythritol A1839 224-433-1
1.2 Relevant identified uses of the se		ance or mixture and uses advised against

Use of the Substance/Mixture	:	Use as laboratory reagent
1.3 Details of the supplier of the safe	ty d	lata sheet
Company Address Telephone Telefax E-mail address of person respon- sible for the SDS	:	TCI EUROPE N.V. Boereveldseweg 6 - Haven 1063, B-2070 Zwijndrecht, Belgium +32 (0)3 735 07 00 +32 (0)3 735 07 01 sales-eu@tcichemicals.com

1.4 Emergency telephone number

Emergency telephone number : +44 844 892 0111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name EC-No.		1,4-Anhydroerythritol 224-433-1
Components		
Remarks	:	No hazardous ingredients

SECTION 4: First aid measures

4.1 Description of first aid measures

A1839: 1,4-Anhydroerythritol		Version 1.1	Revision Date: 09.12.2024
If inhaled	:	Remove person to fresh air and keep of Get medical advice/ attention if you fee	Ũ
In case of skin contact	:	Take off all contaminated clothing imm If on skin, rinse well with water. If skin irritation or rash occurs: Get med	5
In case of eye contact	:	Rinse with plenty of water. If easy to do, remove contact lens, if w If eye irritation persists: Get medical ac	
If swallowed	:	Get medical advice/ attention. Rinse mouth.	

- **4.2 Most important symptoms and effects, both acute and delayed** None known.
- **4.3 Indication of any immediate medical attention and special treatment needed** None known.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Dry powder, Foam, Water spray, Carbon dioxide (CO2)
5.2 Special hazards arising from the	e su	bstance or mixture
Specific hazards during fire- fighting	:	No information available.
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	Use personal protective equipment.
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circum- stances and the surrounding environment. Immediately evacuate personnel to safe areas. Remove undamaged containers from fire area if it is safe to do so.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective of	equ	ipment and emergency procedures
Personal precautions	:	Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non- involved personnel should be controlled around the leakage area by roping off, etc.
6.2 Environmental precautions		
Environmental precautions	:	Prevent product from entering drains.
6.3 Methods and material for contain	mei	nt and cleaning up
Methods for cleaning up	:	Collect as much of the spill as possible with a suitable absorbent material.
6.4 Reference to other sections		
See sections: 7, 8, 11, 12 and 13.		

SECTION 7: Handling and storage

7.1 Precautions for safe handling Technical measures	:	Prevent generation of vapour or mist.
Local/Total ventilation	:	Ensure adequate ventilation. Use a local exhaust ventilation.
Advice on safe handling	:	Avoid contact with skin, eyes and clothing.

Wear personal protective equipment. Wash hands and face thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas:Keep container tightly closed. Store in a cool and shaded area.and containersStorage class (TRGS 510):10

7.3 Specific end use(s)

Specific use(s)

: No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

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

Personal protective equipment		
Eye/face protection Hand protection Skin and body protection	:	Safety glasses, Face-shield Protective gloves Protective suit
Respiratory protection	:	Gas mask

*Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

information on basic physical al	iu chemical properties
Physical state Colour Odour	: liquid : colourless - yellow : No data available
Odour Threshold	: No data available
Melting point/freezing point	: 19 °C
Boiling point/boiling range	: No data available
Flammability	: No data available
Upper explosion limit/Upper flammability limit	: No data available
Lower explosion limit/Lower	: No data available
flammability limit	
Flash point	: No data available
Auto-ignition point	: No data available
Decomposition temperature	: No data available
pH	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic Solubility(ies)	: No data available
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-	: No data available
octanol/water	. No dete evellete
Vapour pressure	: No data available
Relative density	: 1,27
Relative vapour density	: No data available
Particle characteristics	: No data available

9.2 Other information

Molecular weight : 104,11 g/mol

SECTION 10: Stability and	d reactivity
10.1 Reactivity No data available	
10.2 Chemical stability Stable under normal conditi	ons.
10.3 Possibility of hazardous re Hazardous reactions	eactions : None under normal processing.
10.4 Conditions to avoid	
10.5 Incompatible materials Materials to avoid	: Oxidizing agents,
10.6 Hazardous decomposition Carbon monoxide, Carbon o	

SECTION 11: Toxicological information

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

Acute toxicity	:	No information available.
Skin corrosion/irritation	:	No information available.
Serious eye damage/eye irrita- tion	:	No information available.
Respiratory or skin sensitisa- tion	:	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.
Repeated dose toxicity	:	No information available.
Aspiration hazard	:	No information available.

:

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

No data available

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 as	ssessment
Product: Assessment	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting prope	rties
Product:	
Assessment	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7 Other adverse effects	
No data available	
SECTION 13: Disposal con	siderations
13.1 Waste treatment methods Product	: Disposal in accordance with local and national regulations.

Product	 Disposal in accordance with local and national regulations. Entrust disposal to a licensed waste disposal company.
Contaminated packaging	: Disposal in accordance with local and national regulations. Before disposal of used container, remove contents completely.

SECTION 14: Transport information

14.1 UN number or ID number

	ADR	:	Not regulated as a dangerous good	
	IMDG	:	Not regulated as a dangerous good	
	ΙΑΤΑ	:	Not regulated as a dangerous good	
14.2	2 UN proper shipping name			
	ADR	:	Not regulated as a dangerous good	
	IMDG	:	Not regulated as a dangerous good	
	ΙΑΤΑ	:	Not regulated as a dangerous good	
14.3 Transport hazard class(es)				
	ADR	:	Not regulated as a dangerous good	
	IMDG	:	Not regulated as a dangerous good	
	ΙΑΤΑ	:	Not regulated as a dangerous good	
14.4	Packing group			
	ADR	:	Not regulated as a dangerous good	
	IMDG	:	Not regulated as a dangerous good	
	IATA (Cargo)	:	Not regulated as a dangerous good	
	IATA (Passenger)	:	Not regulated as a dangerous good	

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks

: Not classified as dangerous in the meaning of transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the mar- ket and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable	
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable	
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable	
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable	
Regulation (EC) No 850/2004 on persistent organic pollutants	:	Not applicable	
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable	

Water hazard class (Germany)	:	WGK 3 highly hazardous to water
		Classification according to AwSV, Annex 1 (5.2)

The components of this product are reported in the following inventories:

CH BAGREG	:	On the inventory, or in compliance with the inventory
TSCA	:	Substance(s) not listed on TSCA inventory
AICS	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.
		1,4-Anhydroerythritol
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR -(Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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

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