

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 CAS RN	:	2-(Aminomethyl)-1,3-dioxolane A1179 4388-97-0
1.2 Relevant identified uses of the s	ubst	ance or mixture and uses advised against
Use of the Substance/Mixture	:	Use as laboratory reagent

1.3 Details of the supplier of the safety data 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)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word : Hazard statements :	Warning H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation.
Precautionary statements :	Prevention:
	 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	Response:
	 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P337 + P313 If eye irritation persists: Get medical advice/ attention. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

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	: 2-(Aminomethyl)-1,3-dioxolane
CAS RN	: 4388-97-0

Components

Chemical name	CAS RN EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
2-(Aminomethyl)-1,3-dioxolane	4388-97-0	>= 90 - <= 100	

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled	: Remove person to fresh air and keep comfortable for breathing. Get medical advice/ attention if you feel unwell.
In case of skin contact	: Take off all contaminated clothing immediately. If on skin, rinse well with water. If skin irritation occurs: Get medical advice/ attention.
In case of eye contact	 Rinse with plenty of water. If easy to do, remove contact lens, if worn. If eye irritation persists: Get medical advice/ attention.
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 substance 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	e equipment 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	nment 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	Ъ.	
SECTION 7: Handling and sto	orage	
7.1 Precautions for safe handling		
Technical measures	 Prevent generation of vapour or mist. Take precautionary measures against static discharge. Use explosion-proof equipment. 	
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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not subject to grinding, shock or friction. Wash hands and face thoroughly after handling. 	
7.2 Conditions for safe storage, incl	luding any incompatibilities	
Requirements for storage areas and containers	: Keep container tightly closed. Store in a cool and shaded area. Keep in a well-ventilated place. Use explosion-proof equipment. Keep under inert gas.	
Storage class (TRGS 510)	: 3	

7.3 Specific end use(s)

Specific use(s)	:	No information available.
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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	:	Safety glasses, Face-shield
Hand protection	:	Protective gloves
Skin and body protection	:	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 and	CII	ennear properties
Physical state	:	liquid
Colour	:	colourless
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	No data available
Upper explosion limit/Upper	:	No data available
flammability limit		
Lower explosion limit/Lower	:	No data available
flammability limit		
Flash point	:	48 °C (Calculated value)
Auto-ignition point	:	No data available
Decomposition temperature	:	No data available
pH	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-	:	No data available
octanol/water		
Vapour pressure	:	No data available
Relative density	:	1,10
Relative vapour density	:	No data available
Particle characteristics	:	No data available
Other information		
Refractive index	:	1,45
Malagular		100.10 a/mal
Molecular weight	:	103,12 g/mol

SECTION 10: Stability and reactivity

9.2

10.1 Reactivity No data available					
10.2 Chemical stability Stable under normal conditions.					
10.3 Possibility of hazardous reactions Hazardous reactions :	None under normal processing.				
10.4 Conditions to avoid Conditions to avoid :	Electrical spark, Open flame, Electrostatic discharge, Exposure to air.				
10.5 Incompatible materials Materials to avoid :	Oxidizing agents,				
10.6 Hazardous decomposition products					

Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx)

SECTION 11: Toxicological information

1.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity : No information available.					
Skin corrosion/irritation					
Product: Result :	Skin irritation				
Components:					
2-(Aminomethyl)-1,3-dioxolane:					
Result :	Skin irritation				
Serious eye damage/eye irritation					
Product:					
Result :	Eye irritation				
Components:					
2-(Aminomethyl)-1,3-dioxolane:					
Result :	Eye irritation				
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 assessment 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 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. 12.7 Other adverse effects No data available **SECTION 13: Disposal considerations** 13.1 Waste treatment methods Product Disposal in accordance with local and national regulations. : Take precautions against ignition or explode. 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	:	UN 1993		
	IMDG	:	UN 1993		
	ΙΑΤΑ	:	UN 1993		
14.2	UN proper shipping name				
	ADR	:	FLAMMABLE LIQUID, N	1.O.S.	
	IMDG	:	FLAMMABLE LIQUID, N.O.S.		
	ΙΑΤΑ	:	Flammable liquid, n.o.s.		
14.3 Transport hazard class(es)					
			Class	Subsidiary risks	
	ADR	:	3		
	IMDG	:	3		
	ΙΑΤΑ	:	3		
14.4 Packing group					
	ADR Packing group Classification Code Hazard Identification Number Tunnel restriction code	: : :	III F1 30 (D/E)		
	IMDG Packing group EmS Code	:	III F-E, <u>S-E</u>		
	IATA (Cargo) Packing instruction (cargo air-	:	366		

14.5 Environmental hazards

ADR

Environmentally hazardous : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country 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 ma ket and use of certain dangerou articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 40, 3			
Regulation (EC) No 649/2012 o the Council concerning the expo chemicals	:	Not applicable			
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).			Not applicable		
Regulation (EC) No 1005/2009 ozone layer	:	Not applicable			
Regulation (EC) No 850/2004 o	Regulation (EC) No 850/2004 on persistent organic pollutants				
REACH - List of substances subject to authorisation (Annex : Not applicable XIV)					
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	: Not in compliance with th	e in	ventory		
TSCA	: Substance(s) not listed or	n TS	SCA inventory		
AICS	: Not in compliance with th	e in	ventory		
DSL	: This product contains the Canadian DSL nor NDSL		owing components that are not on the		
	2-(Aminomethyl)-1,3-diox	olar	ne		
ENCS	: Not in compliance with th	e in	ventory		
ISHL	: Not in compliance with th	e in	ventory		
KECI	e in	ventory			

PICCS	: 1	Not in compliance with the inventory
IECSC	: 1	Not in compliance with the inventory
NZIoC	: 1	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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