

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.	:	Ethyl 4-Aminobenzoate A0271 202-303-5
		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)

Skin irritation, Category 2 Eye irritation, Category 2 Skin sensitisation, Category 1 Specific target organ toxicity - single exposure, Category 1, Blood Specific target organ toxicity - repeated exposure, Category 1, Blood Long-term (chronic) aquatic hazard, Category 2

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H317: May cause an allergic skin reaction.
- H370: Causes damage to organs.

H372: Causes damage to organs through prolonged or repeated exposure.

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word Hazard statements	:	 Danger H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H370 Causes damage to organs (Blood). H372 Causes damage to organs (Blood) through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention:P260Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.P264Wash skin thoroughly after handling.P273Avoid release to the environment.P280Wear protective gloves/ eye protection/ face protection.
		Response:

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

P391 Collect spillage.

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	:	Ethyl 4-Aminobenzoate
EC-No.	:	202-303-5

Components

Chemical name	CAS RN EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
Ethyl 4-Aminobenzoate	94-09-7 202-303-5	>= 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. Call a POISON CENTER or doctor/ physician.
In case of skin contact	:	Take off all contaminated clothing immediately. Wash off with plenty of water. Call a POISON CENTER or doctor/ physician.
In case of eye contact	:	Rinse with plenty of water. If easy to do, remove contact lens, if worn. Call a POISON CENTER or doctor/ physician.
If swallowed	:	Call a POISON CENTER or doctor/ physician. 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	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 equipment and emergency procedures

Personal precautions	:	Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be cor trolled around the leakage area by roping off, etc.	
6.2 Environmental precautions			
Environmental precautions	:	Should not be released into the environment.	
6.3 Methods and material for containn	ne	nt and cleaning up	
Methods for cleaning up	:	Pick up and arrange disposal without creating dust.	
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 dispersion of dust.
Local/Total ventilation	:	Ensure adequate ventilation. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. 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, inclu	udiı	ng any incompatibilities
Requirements for storage areas and containers	:	Keep container tightly closed. Store in a cool and shaded area. Store locked up.
Storage class (TRGS 510)	:	6.1C
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, Safety goggles, Face-shield Impervious gloves Impervious protective clothing
Respiratory protection	:	Dustproof gas mask Self-contained breathing apparatus

*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

of the matter of basic physical an		
Physical state	:	Solid form
Colour	:	white - yellow
Odour	:	No data available
Odour Threshold		No data available
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Melting point/freezing point	:	90 °C
Boiling point/boiling range	:	310 °C
Flammability	:	No data available
Upper explosion limit/Upper		No data available
flammability limit	•	
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	:	No data available
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents		Solvent: Ether
	•	soluble
		Solvent: Alcohol
		soluble
		Solvent: Chloroform
		soluble
Partition coefficient: n-	:	1,86
octanol/water		N I I 2 11 12
Vapour pressure	:	No data available
Relative density	:	No data available
Relative vapour density	:	No data available
Particle characteristics	:	No data available
9.2 Other information		
Molecular weight	:	165,19 g/mol
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SECTION 10: Stability and reactivity

10.1 Reactivity No data available					
10.2 Chemical stability Stable under normal conditions.					
10.3 Possibility of hazardous reaction Hazardous reactions	1 S :	None under normal processing.			
10.4 Conditions to avoid					
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

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

Acute toxicity				
Product: Acute oral toxicity	:	Assessment: The component/mixture is minimally toxic after single ingestion.		
Components:				
Ethyl 4-Aminobenzoate:				
Acute oral toxicity	:	LD50 (Rat): 3 042 mg/kg Assessment: The component/mixture is minimally toxic after single ingestion.		
Acute toxicity (other routes of administration)	:	LD50 (Mouse): 216 mg/kg Application Route: Intraperitoneal injection		
Skin corrosion/irritation				
<u>Product:</u> Result	:	Skin irritation		
Components:				
Ethyl 4-Aminobenzoate:				
Result	:	Skin irritation		
Serious eye damage/eye irritati	ion			
Product:				
Result	:	Eye irritation		
Components:				
Ethyl 4-Aminobenzoate:				
Result	:	Eye irritation		
Respiratory or skin sensitisation				
Product:				
Assessment	:	May cause sensitisation by skin contact.		
Components:				
Ethyl 4-Aminobenzoate:				
Assessment	:	May cause sensitisation by skin contact.		
Germ cell mutagenicity	:	No information available.		
Carcinogenicity	:	No information available.		
Reproductive toxicity	:	No information available.		
STOT - single exposure				
Product:				
Target Organs Assessment	:	Blood Causes damage to organs.		
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	Components:		
	Ethyl 4-Aminobenzoate:		
	Target Organs	:	Blood
	Assessment	÷	Causes damage to organs.
	STOT - repeated exposure		
	Product:		
	Target Organs	:	Blood
	Assessment	:	Causes damage to organs through prolonged or repeated exposure.
	Components:		
	Ethyl 4-Aminobenzoate:		
	Target Organs	:	Blood
	Assessment	:	Causes damage to organs through prolonged or repeated exposure.
	Repeated dose toxicity	:	No information available.
	Aspiration hazard	:	No information available.
	RTECS No.	:	DG2450000 (Ethyl 4-Aminobenzoate)
11 *	2 Information on other hazards		
11.4			
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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

Product:		
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Toxic to aquatic life.
Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.
Components:		
Ethyl 4-Aminobenzoate:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 7,2 mg/l Exposure time: 96 h
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Toxic to aquatic life.
Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.
2 Persistence and degradability		

No data available

12.3 Bioaccumulative potential

Components:

Ethyl 4-Aminobenzoate:

Partition coefficient: n- : 1,86 octanol/water

12.4 Mobility in soil

Components:

Ethyl 4-Aminobenzoate:

Distribution among environmen- : Koc: 250 tal compartments

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. 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 3077	
	IMDG	:	UN 3077	
	ΙΑΤΑ	:	UN 3077	
14.2	UN proper shipping name			
	ADR	:	ENVIRONMENTALLY H	AZARDOUS SUBSTANCE, SOLID, N.O.S.
	IMDG	:	ENVIRONMENTALLY H	AZARDOUS SUBSTANCE, SOLID, N.O.S.
	ΙΑΤΑ	:	Environmentally hazardous substance, solid, n.o.s.	
14.3	Transport hazard class(es)			
			Class	Subsidiary risks
	ADR	:	9	
	IMDG	:	9	

IATA 14.4 Packing group	:	9
ADR Packing group Classification Code Hazard Identification Number Tunnel restriction code	:	III M7 90 (-)
IMDG Packing group EmS Code	:	III F-A, S-F
IATA (Cargo) Packing instruction (cargo air- craft) Packing instruction (LQ) Packing group	:	956 Y956 III
IATA (Passenger) Packing instruction (passenger aircraft) Packing instruction (LQ) Packing group	:	956 Y956 III

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 manufacture, placing on the ket and use of certain dangerous substances, mixtures a articles (Annex XVII)	
Regulation (EC) No 649/2012 of the European Parliamen the Council concerning the export and import of dangerou chemicals	
REACH - Candidate List of Substances of Very High Con for Authorisation (Article 59).	ncern : Not applicable
Regulation (EC) No 1005/2009 on substances that deplet ozone layer	te the : Not applicable
Regulation (EC) No 850/2004 on persistent organic pollut	tants : Not applicable
REACH - List of substances subject to authorisation (Ann XIV)	nex : Not applicable
Water hazard class (Germany) : WGK 2 obviously Code Number: 1 1 Classification acco	

Other regulations:

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

CH BAGREG	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AICS	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	On the inventory, or 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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