

SAFETY DATA SHEET

Creation Date 26-Sep-2009

Revision Date 23-May-2017

Revision Number 2

1. Identification

Product Name

4-Aminobenzoic acid

Cat No. :

AC146210000; AC146210010; AC146210050; AC146212500

Synonyms

PABA

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation	
Serious Eye Damage/Eye Irritation	
Skin Sensitization	
Specific target organ toxicity (single exposure)	
Target Organs - Respiratory system.	
Combustible dust	

Category 2 Category 2 Category 1 Category 3

Yes

Label Elements

Signal Word

Warning

Hazard Statements

May form combustible dust concentrations in air Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction May cause respiratory irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell **Skin**

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition / information on ingredients

Component		CAS-No	Weight %		
p-Aminobenzoic acid		150-13-0	>95		
	4.	First-aid measures			
General Advice	If symptoms	persist, call a physician.			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.				
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.				
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.				
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.				
Most important symptoms/effects	None reasonably foreseeable. May cause allergic skin reaction Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and				
Notes to Physician	feet, dizzines Treat sympto	ss, lightheadedness, chest pain, muscle matically	pain or flushing		

	5. Fire-fighting	measures	
Suitable Extinguishing Media	Use water spray, alcohol-resis		arbon dioxide.
Unsuitable Extinguishing Media	No information available		
Flash Point Method -	No information available No information available		
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No information available		
Dust can form an explosive mixture in			
Hazardous Combustion Products Nitrogen oxides (NOx) Carbon monox Protective Equipment and Precauti As in any fire, wear self-contained bre protective gear.	ons for Firefighters	and, MSHA/NIOSH (approve	ed or equivalent) and full
NFPA Health 2	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental rele		
	o. Accidental rele	ase measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation. Should not be released into the information.	Jse personal protective equip	
	Ensure adequate ventilation. Should not be released into the information.	Jse personal protective equip le environment. See Section age and collect in suitable con	12 for additional ecological
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Environmental Precautions Methods for Containment and Clea	Ensure adequate ventilation. Should not be released into th information. n Sweep up or vacuum up spilla suitable, closed containers for 7. Handling an	Use personal protective equip te environment. See Section age and collect in suitable con disposal. Ind storage ipment. Ensure adequate ver	12 for additional ecological ntainer for disposal. Keep in ntilation. Do not get in eyes, on
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Respiratory Protection Hygiene Measures	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Handle in accordance with good industrial hygiene and safety practice.				
9	. Physical and chemical properties				
Physical State	Powder Solid				
Appearance	Light yellow				
Odor	No information available				
Odor Threshold	No information available				
рН	3.5 0.5% aq. solution				
Melting Point/Range	186 - 189 °C / 366.8 - 372.2 °F				
Boiling Point/Range	No information available				
Flash Point	No information available				
Evaporation Rate	Not applicable				
Flammability (solid,gas)	No information available				
Flammability or explosive limits					
Upper	No data available				
Lower	No data available				
Vapor Pressure	No information available				
Vapor Density	Not applicable				
Specific Gravity	No information available				
Solubility Partition coefficient; n-octanol/wate	Soluble in water No data available				
Autoignition Temperature					
Decomposition Temperature	No information available				
Viscosity	Not applicable				
Molecular Formula	C7 H7 N O2				
Molecular Weight	137.14				
	10. Stability and reactivity				

Reactive Hazard	None known, based on information available
Stability	Air sensitive. Light sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to air. Exposure to light.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
	11. Toxicological information

Acute Toxicity

Product Information Oral LD50	Based on ATE data, the classi	fication criteria are not met	
Component Information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
p-Aminobenzoic acid	>6 g/kg (Rat)	Not listed	Not listed
Toxicologically Synergistic	No information available		
Products			
Delayed and immediate effects a	as well as chronic effects from sh	ort and long-term exposu	re

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Irritation		Irritating to eyes, re	Irritating to eyes, respiratory system and skin					
Sensitization		No information ava	No information available					
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinoge						
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico		
p-Aminobenzoic acid	150-13-0	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ailable					
Reproductive Effect	s	Experiments have shown reproductive toxicity effects on laboratory animals.				ls.		
Developmental Effe	cts	No information available.						
Teratogenicity		No information available.						
STOT - single expos STOT - repeated exp		Respiratory system None known						

Symptoms / effects,both acute and
delayedSymptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling
of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Aspiration hazard

Component	Freshwater Algae		onent Freshwater Algae Freshwater Fish Microto		Microtox	Water Flea	
p-Aminobenzoic acid	Not listed		acid Not listed Not listed		= 27.4 mg/L EC50 Photobacterium phosphoreum 30 min 15 °C	Not listed	
Persistence and Degrada	bility	Soluble in wa	ater Persistence is unlikely	based on information availa	ble.		
Bioaccumulation/ Accum	ulation	No informatio	on available.				
Mobility		Will likely be	mobile in the environment	due to its water solubility.			
		13. Di	sposal consider	ations			
Waste Disposal Methods		hazardous wa	aste. Chemical waste gen	mine whether a discarded ch nerators must also consult loo o ensure complete and accu	cal, regional, and		
		14. T	ransport inform	ation			
DOT		Not regulated	ł				
TDG Not regulated							
IATA	v						
IMDG/IMO Not regulate			1				
		15. R	egulatory inform	nation			

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
p-Aminobenzoic acid	Х	Х	-	205-753-0	-		Х	Х	Х	Х	Х
Legend:											

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable

SARA 313	Not applicable

SARA 311/312 Hazard Categories	
Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

California Proposition 65	This product does not contain any Proposition 65 chemicals
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U.S. State Right-to-Know Regulations	Not applicable	
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U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

16. Other information		
Prepared By	Regulatory Affairs Thermo Fisher Scientific	
	Email: EMSDS.RA@thermofisher.com	
Creation Date	26-Sep-2009	
Revision Date	23-May-2017	
Print Date	23-May-2017	
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).	

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS