

2-PHTHALDIALDEHYDE

Page: 1

Compilation date: 24/05/2010 Revision date: 01/10/2012

Revision No: 2

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

1.1. Product identifier

Product name:2-PHTHALDIALDEHYDECAS number:643-79-8EINECS number:211-402-2Product code:52367Synonyms:BENZENE-1,2-DICARBOXALDEHYDEOPA

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

1.3. Details of the supplier of the safety data sheet

Company	: Aaron Chemistry GmbH : Am Fischweiher 41-43 : D-82481 Mittenwald : Germany
Telephone:	: +49-8823-917521
Fax:	: +49-8823-917523
email:	: info@aaron-chemistry.de

1.4. Emergency telephone number :+49-8823-917521

Section 2: Hazards identification

2.1. Classification of the substance or mixture Classification under CHIP: T: R25; C: R34; Sens.: R43; N: R50 Classification under CLP: Acute Tox. 3: H301; Aquatic Acute 1: H400; Skin Corr. 1B: H314; Skin Sens. 1: H317 Most important adverse effects: Toxic if swallowed. Causes burns. May cause sensitisation by skin contact. Very toxic to aquatic organisms. 2.2. Label elements Label elements under CLP: Hazard statements: H301: Toxic if swallowed.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H400: Very toxic to aquatic life.

2-PHTHALDIALDEHYDE

Signal words: Danger Hazard pictograms: GHS05: Corrosion GHS06: Skull and crossbones GHS09: Environmental Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection. P309+311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor. Label elements under CHIP: Hazard symbols: Dangerous for the environment. Toxic. Risk phrases: R25: Toxic if swallowed. R34: Causes burns. R43: May cause sensitisation by skin contact. R50: Very toxic to aquatic organisms. Safety phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing, gloves and eye / face protection. S38: In case of insufficient ventilation, wear suitable respiratory equipment. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). 2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 2-PHTHALDIALDEHYDE

Section 4: First aid measures

4.1. Description of first aid measures		
Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin.	
	Drench the affected skin with running water for 10 minutes or longer if substance is still	
	on skin. Transfer to hospital if there are burns or symptoms of poisoning.	
Eye contact:	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist	
	examination.	
Ingestion:	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water	

Page: 2

2-PHTHALDIALDEHYDE

to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible. Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible. 4.2. Most important symptoms and effects, both acute and delayed Skin contact: There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal. Eye contact: There may be severe pain. The eyes may water profusely. **Ingestion:** There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness. Inhalation: There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness. Delayed / immediate effects: Immediate effects can be expected after short-term exposure. 4.3. Indication of any immediate medical attention and special treatment needed Immediate / special treatment: Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. Section 5: Fire-fighting measures 5.1. Extinguishing media Extinguishing media: Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. 5.2. Special hazards arising from the substance or mixture Exposure hazards: Toxic. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. 5.3. Advice for fire-fighters Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Section 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures Personal precautions: Notify the police and fire brigade immediately. If outside do not approach from

downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust.

2-PHTHALDIALDEHYDE

Page: 4 6.2. Environmental precautions Environmental precautions: Do not discharge into drains or rivers. 6.3. Methods and material for containment and cleaning up Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method. 6.4. Reference to other sections Reference to other sections: Refer to section 8 of SDS. Section 7: Handling and storage 7.1. Precautions for safe handling Handling requirements: Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area. Avoid the formation or spread of dust in the air. Only use in fume hood. 7.2. Conditions for safe storage, including any incompatibilities Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids. Light Sensitive. Air sensitive. Moisture sensitive. Store under Argon. Recommended storage temp 2-8 °C. Suitable packaging: Must only be kept in original packaging. 7.3. Specific end use(s) Specific end use(s): No data available. Section 8: Exposure controls/personal protection 8.1. Control parameters Workplace exposure limits: Not applicable. 8.2. Exposure controls Engineering measures: Ensure there is exhaust ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Particle filter class P1 (EN143). Hand protection: Protective gloves. Eye protection: Safety glasses with side-shields. Ensure eye bath is to hand. Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Powder

Colour: Yellow

2-PHTHALDIALDEHYDE

			Pa	ge:	5
Evaporation rate:	Negligible				
Solubility in water:	Soluble				
Also soluble in:	Methanol.				
Viscosity:	2.3 mPa.s at 65 ℃				
Boiling point/range℃:	83@0.8mmHg	Melting point/range °C:	53-57		
Flash point °C:	132	Part.coeff. n-octanol/water:	log Pow: 0.934		
Autoflammability°C:	480	Relative density:	1.130		

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Light. Air. Moist air. Humidity.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides

(NOx).

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	178	mg/kg
DERMAL	RAT	LD50	>2000	mg/kg

2-PHTHALDIALDEHYDE

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 3)	ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
Respiratory/skin sensitisation	DRM	Based on test data

Symptoms / routes of exposure

Skin contact:	There may be redness or whiteness of the skin in the area of exposure. Irritation or pain
	may occur at the site of contact. Absorption through the skin may be fatal.
Eye contact:	There may be severe pain. The eyes may water profusely.
Ingestion:	There may be soreness and redness of the mouth and throat. There may be vomiting.
	Convulsions may occur. There may be loss of consciousness.
Inhalation:	There may be shortness of breath with a burning sensation in the throat. Absorption
	through the lungs can occur causing symptoms similar to those of ingestion.
	Convulsions may occur. There may be loss of consciousness.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	0.072	mg/l
Daphnia magna	48H EC50	0.087	mg/l

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms.

Section 13: Disposal considerations

2-PHTHALDIALDEHYDE

Page: 7

		raye.
13.1. Waste treatment methods	3	
Disposal operations:	MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND	
	FEDERAL REGULATIONS	
Disposal of packaging:	Dispose of as special waste in compliance with local and national regulations Observe	
Disposal of packaging.	all federal, state and local environmental regulations.	
NB	The user's attention is drawn to the possible existence of regional or national	
ND.	regulations regarding disposal.	
Section 44. Turner out informed		
Section 14: Transport information	lion	
14.1. UN number		
UN number:	UN2923	
14.2. UN proper shipping name		
Shipping name:	CORROSIVE SOLID, TOXIC, N.O.S.	
14.3. Transport hazard class(es	s)	
Transport class:	8 (6.1)	
14.4. Packing group		
Packing group:	П	
14.5. Environmental hazards		
Environmentally hazardous:	Yes Marine pollutant: No	
14.6. Special precautions for u	ser	
Special precautions:	No special precautions.	
Tunnel code:	E	
Transport category:	2	
ection 15: Regulatory information	ation	
15.1. Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture	
15.2. Chemical Safety Assessn	nent	
	A chemical safety assessment has not been carried out for the substance or the mixture	
onennear salely assessment.	by the supplier.	
	by the supplier.	
ection 16: Other information		
Other information		
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No	
	453/2010.	
	* Data predicted using computational software. Toxtree - Toxic Hazard Estimation by	
	decision tree approach, http://ecb.irc.ec.europa.eu/gsar/gsar-tools/index.php?	

decision tree approach. http://ecb.jrc.ec.europa.eu/qsar/qsar-tools/index.php?

c=TOXTREE

2-PHTHALDIALDEHYDE

	~ Data predicted using computatioanl software ACD/ToxSuite v 2.95.1 Copyright 1994-
	2009 ACD/labs, Copyright 2001-2009 Pharma Algorithms, Inc, Advanced Chemistry
	Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/
Phrases used in s.2 and 3:	H301: Toxic if swallowed.
	H314: Causes severe skin burns and eye damage.
	H317: May cause an allergic skin reaction.
	H400: Very toxic to aquatic life.
	R25: Toxic if swallowed.
	R34: Causes burns.
	R43: May cause sensitisation by skin contact.
	R50: Very toxic to aquatic organisms.
Legal disclaimer:	The material is intended for research purposes only and should be handled exclusively
	by those who have been fully trained in safety, laboratory and chemical handling
	procedures. The above information is believed to be correct to the best of our
	knowledge. The above information is believed to be correct to the best of our knowledge
	at the date of its publication, but should not be considered to be all inclusive. It should
	be used only as a guide for safe handling, storage, transportation and disposal. We
	cannot guarantee that the hazards detailed in this document are the only hazards that
	exist for this product. This is not a warranty and Aaron Chemistry GmbH shall not be held
	liable for any damage resulting from handling or from contact with the above product.

Page: 8