



Creation Date 02-Sep-2010

Revision Date 19-Apr-2012

**Revision Number** 5

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier Product Description: Cat No. Synonyms

**4-Aminophenol 104270000; 104270010; 104270050; 104272500** 4-Amino-1-hydroxybenzene; 4-Hydroxyaniline

Relevant identified uses of the substance or mixture and uses advised againstRecommended UseLaboratory chemicalsUses advised againstNo Information available

Details of the supplier of the safety data sheetCompanyAcros Organics BVBAJanssen Pharmaceuticalaan 3a2440 Geel, BelgiumE-mail addressbegel.sds

begel.sdsdesk@thermofisher.com

### **Emergency Telephone Number**

For information in the US, call: 001-800-ACROS-01 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300 CHEMTREC Phone Number, Europe: 001-703-527-3887

# **SECTION 2. HAZARDS IDENTIFICATION**

### Classification of the substance or mixture REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Germ Cell Mutagenicity	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Classification according to EU Directives 67/548/EEC or 1999/45/EC

 For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

 Symbol(s)
 Xn - Harmful

 R-phrase(s)
 R68 - Possible risk of irreversible effects

 Risk Combination Phrases
 R20/22 - Harmful by inhalation and if swallowed

 R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment





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# SECTION 2. HAZARDS IDENTIFICATION Label Elements OPEN PARAGE Signal Word Warning Hazard Statements H341 - Suspected of causing genetic defects H410 - Very toxic to aquatic life with long lasting effects H332 - Harmful if inhaled H302 - Harmful if swallowed

### Precautionary Statements - EU (§28, 1272/2008)

P281 - Use personal protective equipment as required P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell P273 - Avoid release to the environment

### **Other Hazards**

No information available.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC-No.	Weight %	CAS-No	67/548/EEC Classification	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
p-Aminophenol 123-30-8	EEC No. 204-616-2	>95	123-30-8	Xn; R20/22 N; R50-53 Muta.Cat.3; R68	Acute Tox. 4 (H302) Muta. 2 (H341) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-

### For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

# SECTION 4. FIRST AID MEASURES

Description of first aid measures





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	SECTION 4. FIRST AID MEASURES
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.
Notes to Physician	Treat symptomatically
	SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing media

### Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which must not be used for safety reasons No information available.

### Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

### Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

### **Environmental precautions**

Should not be released into the environment.

### Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

# **SECTION 7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

# SAFETY DATA SHEET



### 4-Aminophenol

Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Store under an inert atmosphere.

### Specific End Uses

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure limits						
Component	Austr	ia	Denmark	Switzerland	Poland	Norway
p-Aminophenol					NDS: 5 mg/m <sup>3</sup> 8 godzinach	
Component	Latvi	a	Lithuania	Luxembourg	Malta	Romania
p-Aminophenol	TWA: 1 n	ng/m³				
Biological limit values Derived No Effect Level (I Predicted No Effect Conc (PNEC)		establish No inforr		es not contain any haz cific regulatory bodies	zardous materials with b s.	iological limits
Exposure controls						
Engineering Measures			under a chemical fu		eyewash stations and sa	afety showers are
Personal protective eq Eye Protection Hand Protection Skin and body prot Respiratory Protec	ection	Goggles Protective gloves Wear appropriate protective gloves and clothing to prevent skin exposure 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 lim are exceeded or if irritation or other symptoms are experienced				
Hygiene Measures Environmental exposure	controls		n accordance with go nation available.	od industrial hygiene	and safety practice	

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical	State
Appearar	nce
odor	

Solid Beige rotten-egg like





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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

pH Vapor Pressure Boiling Point/Range Melting Point/Range Decomposition temperature Flash Point Autoignition Temperature

Water Solubility Molecular Formula Molecular Weight No information available. 0.4 hPa @ 110 °C 284°C / 543.2°F@ 760 mmHg 187 - 191°C / 368.6 - 375.8°F > 284°C 189°C / 372.2°F 250°C / 482°F

15 g/L (20°C) C6 H7 N O 109.13

# SECTION 10. STABILITY AND REACTIVITY

### Reactivity

### **Chemical Stability**

Sensitivity to light. Air sensitive.

**Possibility of Hazardous Reactions** 

Hazardous Polymerization Hazardous Reactions . Hazardous polymerization does not occur. None under normal processing..

### **Conditions to Avoid**

Incompatible products, Excess heat, Avoid dust formation, Protect from light, Exposure to air.

### **Incompatible Materials**

Strong oxidizing agents.

### Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NOx).

# **SECTION 11. TOXICOLOGICAL INFORMATION**

### Information on Toxicological Effects

Acute Toxicity

### **Component Information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
p-Aminophenol	375 mg/kg (Rat)	10 g/kg (Rabbit)	5.91 mg/kg (Rat)1 h

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Chronic Toxicity	
Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization	No information available.
Mutagenic Effects	Substances which cause concern for man owing to possible mutagenic effects but for which the available information is not adequate for making a satisfactory assessment
Reproductive Effects	No information available.
Developmental Effects	No information available.
Target Organs	None known.
Other Adverse Effects	See actual entry in RTECS for complete information
Endocrine Disruptor Information	None known

# **SECTION 12. ECOLOGICAL INFORMATION**

### Toxicity

### **Ecotoxicity effects**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment Do not empty into drains

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
p-Aminophenol		LC50 = 1.2 mg/L 96h	EC50 = 0.77 mg/L 30 min EC50 = 0.81 mg/L 15 min EC50 = 0.91 mg/L 5 min	200-280 mg/L 48h

### Persistence and degradability

Not readily biodegradable

### **Bioaccumulative potential**

No information available.

Component	log Pow
p-Aminophenol	0.04

### Mobility in soil

### Results of PBT and vPvB assessment

### Other adverse effects

No information available





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# **SECTION 13. DISPOSAL CONSIDERATIONS**

### Waste treatment methods

Waste from Residues / Unused Products	Dispose of in accordance with local regulations
Contaminated Packaging	Empty containers should be taken to local recyclers for disposal

# **SECTION 14. TRANSPORT INFORMATION**

### IMDG/IMO

UN-No	2512
Hazard Class	6.1
Packing Group	111
Proper Shipping Name	AMINOPHENOLS

### ADR

UN-No	2512
Hazard Class	6.1
Packing Group	
Proper Shipping Name	AMINOPHENOLS

### IATA

UN-No	2512
Hazard Class	6.1
Packing Group	III
Proper Shipping Name	AMINOPHENOLS

# **SECTION 15. REGULATORY INFORMATION**

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

### International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
p-Aminophenol	204-616-2	-		Т	Х	-	Х	Х	Х	Х	Х

# Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

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### 4-Aminophenol

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**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

AICS - Inventory of Chemical Substances

**KECL** - Existing and Evaluated Chemical Substances

### **Chemical Safety Assessment**

# **SECTION 16. OTHER INFORMATION**

Full text of R-phrases referred to under sections 2 and 3

R68 - Possible risk of irreversible effects

R20/22 - Harmful by inhalation and if swallowed

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Revision Date Revision Summary 19-Apr-2012

Reason for revision Not applicable This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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End of Safety Data Sheet