

Creation Date 16-Nov-2010

Revision Date 24-Oct-2016

**Revision Number** 3

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

1.1. Product identification

Product Description:	<u>1-Naphthol</u>		
Cat No. :	128190000; 128190050; 128191000; 128195000		
Synonyms	1-Hydroxynaphthalene		
CAS-No	90-15-3		
EC-No.	201-969-4		
Molecular Formula	С10 Н8 О		
1.2. Relevant identified uses of th	e substance or mixture and uses advised against		
Recommended Use Uses advised against	Laboratory chemicals. No Information available		
<b>1.3. Details of the supplier of the s</b>	safety data sheet		
Company	Acros Organics BVBA		
	Janssen Pharmaceuticalaan 3a		
	2440 Geel, Belgium		
E-mail address	begel.sdsdesk@thermofisher.com		
	-		

1.4. 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

## **SECTION 2: HAZARDS IDENTIFICATION**

### 2.1. Classification of the substance or mixture

hysical hazards	
Based on available data, the classification criteria are not met	
lealth hazards	
	Category 4 (H302)
Acute oral toxicity	Calegoly 4 (11302)
Acute oral toxicity Acute dermal toxicity	Category 4 (H302) Category 4 (H312)
5	<b>U U U</b>
Acute dermal toxicity	Category 4 (H312)

# 2.2. Label elements

1-Naphthol



### Signal Word

Danger

#### **Hazard Statements**

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

#### Precautionary Statements

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell
P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/ physician

#### 2.3. Other hazards

No information available

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1. Substances

Component	CAS-No	EC-No.	Weight %	CLP Classification - Regulation (EC) No 1272/2008
.alphaNaphthol	90-15-3	EEC No. 201-969-4	99	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335)

Full text of Hazard Statements: see section 16

### **SECTION 4: FIRST AID MEASURES**

#### 4.1. Description of 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. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain medical attention. If not breathing, give artificial respiration.

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 Protection of First-aiders
 Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

#### 4.2. Most important symptoms and effects, both acute and delayed

Causes severe eye damage.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

### **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1. 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.

#### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

#### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing.

#### 6.2. Environmental precautions

Avoid release to the environment. See Section 12 for additional ecological information.

#### 6.3. Methods and material for containment and cleaning up

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

#### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## **SECTION 7: HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

Use only under a chemical fume hood. Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not breathe vapors/dust. Do not ingest.

#### Hygiene Measures

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Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight.

#### 7.3. Specific end use(s)

Use in laboratories

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1. Control parameters

### **Exposure limits**

List source(s):

Component	Latvia	Lithuania	Luxembourg	Malta	Romania
.alphaNaphthol	TWA: 0.5 mg/m³	TWA: 0.5 mg/m³ IPRD			Skin notation TWA: 10 mg/m <sup>3</sup> 8 ore STEL: 15 mg/m <sup>3</sup> 15 minute

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
.alphaNaphthol	MAC: 0.5 mg/m <sup>3</sup>				

#### **Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### **Monitoring methods**

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

### Derived No Effect Level (DNEL) No information available

Route of exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral				
Dermal				
Inhalation				

Predicted No Effect Concentration No information available. (PNEC)

#### 8.2. Exposure controls

#### **Engineering Measures**

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

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Personal protective eq Eye Protection Hand Protection	Goggles	Goggles (European standard Protective gloves	
Glove material	Breakthrough time	Glove thickness	EU stan
Nitrile rubber	See manufacturers	-	EN 37
Neoprene	recommendations		

 Glove material
 Breakthrough time
 Glove thickness
 EU standard
 Glove comments

 Nitrile rubber
 See manufacturers
 EN 374
 (minimum requirement)

 Neoprene
 recommendations
 EN 374
 (minimum requirement)

 Natural rubber
 PVC

#### Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly
Large scale/emergency use	Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced <b>Recommended Filter type:</b> Particulates filter conforming to EN 143
Small scale/Laboratory use	Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. <b>Recommended half mask:-</b> Particle filtering: EN149:2001 When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls No information available.

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

#### 9.1. Information on basic physical and chemical properties

Appearance Physical State Odor	Beige Solid aromatic	
Odor Threshold pH	No data available No information available	
Melting Point/Range Softening Point Boiling Point/Range	95 - 97 °C / 203 - 206.6 °F No data available 278 - 280 °C / 532.4 - 536 °F	@ 760 mmHg
Flash Point Evaporation Rate Flammability (solid,gas)	125 °C / 257 °F Not applicable No information available	Method - No information available Solid
Explosion Limits Vapor Pressure	No data available 1.3 hPa @ 94 °C	
Vapor Density Specific Gravity / Density Bulk Density Water Solubility Solubility in other solvents	Not applicable No data available No data available practically insoluble No information available	Solid
Partition Coefficient (n-octanol/wate Component .alphaNaphthol	er) log Pow 2.7	

Autoignition Temperature Decomposition Temperature Viscosity Explosive Properties Oxidizing Properties	541 °C / 1005.8 °F No data available Not applicable No information available No information available	Solid	
9.2. Other information			
Molecular Formula Molecular Weight	C10 H8 O 144.17		
S	ECTION 10: STABILITY	AND REACTIVITY	
10.1. Reactivity	None known, based on inform	ation available	
10.2. Chemical stability 10.3. Possibility of hazardous reac	Stable under normal conditions, Light sensitive. ctions		
Hazardous Polymerization Hazardous Reactions	Hazardous polymerization doe No information available.	s not occur.	
10.4. Conditions to avoid 10.5. Incompatible materials		e products. Avoid dust formation. g bases. Halogens. Acid anhydrides. Acid chlorides.	
10.6. Hazardous decomposition pr	<u>oducts</u> Carbon monoxide (CO). Carb	on dioxide (CO <sub>2</sub> ).	
SEC	CTION 11: TOXICOLOG	ICAL INFORMATION	
11.1. Information on toxicological	effects		
Product Information			

(a) acute toxicity; Oral Dermal Inhalation	Category 4 Category 4 Based on availabl	le data, the cla	ssification	criteria are not me	et	
Component	LD50 O	ral	LD	50 Dermal	LC50 Inha	lation
.alphaNaphthol	LD50 = 1870 mg	g/kg(Rat)	LD50 = 880	) mg/kg (Rabbit)	LC50 > 420 mg/n	n³(Rat)1 h
(b) skin corrosion/irritation;	Category 2					
(c) serious eye damage/irritation;	Category 1					
(d) respiratory or skin sensitization; Respiratory Skin	No data available No data available					
(e) germ cell mutagenicity;	No data available					
(f) carcinogenicity;	No data available					
	The table below in	ndicates wheth	er each ag	gency has listed ar	ny ingredient as a	carcinogen
Component	EU	UK		Germany		ARC

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.alphaNaphthol	-
(g) reproductive toxicity;	No data available
(h) STOT-single exposure;	Category 3
Results / Target organs	Respiratory system.
(i) STOT-repeated exposure;	No data available
Target Organs	None known.
(j) aspiration hazard;	Not applicable Solid

Symptoms / effects, both acute and No information available delayed

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## **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1. Toxicity **Ecotoxicity effects**

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
.alphaNaphthol	LC50: = 0.75 mg/L, 96h static (Lepomis macrochirus) LC50: = 3.57 mg/L, 96h flow-through (Pimephales promelas)			

#### 12.2. Persistence and degradability Persistence

Soluble in water, Persistence is unlikely, based on information available.

#### 12.3. Bioaccumulative potential Bioaccumulation is unlikely

TEIO: Bloaddamalative potential		
Component	log Pow	Bioconcentration factor (BCF)
.alphaNaphthol	2.7	No data available

#### 12.4. Mobility in soil

The product is water soluble, and may spread in water systems . Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

# 12.5. Results of PBT and vPvB

No data available for assessment.

#### assessment

#### 12.6. Other adverse effects Endeerine Dienunter Infer ....

Endocrine Disruptor Information				
Component	EU - Endocrine Disrupters	EU - Endocrine Disruptors -	Japan - Endocrine Disruptor	
	Candidate List	Evaluated Substances	Information	
.alphaNaphthol	Group III Chemical			
Persistent Organic Pollutant	This product does not contain any known or suspected substance			
Ozone Depletion Potential	This product does not contain any known or suspected substance			

### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

Waste from Residues / Unused Products	Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.
Contaminated Packaging	Dispose of this container to hazardous or special waste collection point.

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European Waste Catalogue (EWC)	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not dispose of waste into sewer.
S	ECTION 14: TRANSPORT INFORMATION
IMDG/IMO_	
<u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> <u>14.3. Transport hazard class(es)</u> 14.4. Packing group	UN2811 TOXIC SOLID, ORGANIC, N.O.S 6.1 III
ADR	
<u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> 14.3. Transport hazard class(es) 14.4. Packing group	UN2811 TOXIC SOLID, ORGANIC, N.O.S 6.1 III
IATA_	
<u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u>	UN2811 TOXIC SOLID, ORGANIC, N.O.S.* 6.1 III
14.5. Environmental hazards	No hazards identified
14.6. Special precautions for user	No special precautions required
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the	Not applicable, packaged goods

IBC Code

1-Nanhthol

## **SECTION 15: REGULATORY INFORMATION**

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

International Inventories		X = listed									
Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
.alphaNaphthol	201-969-4	-		Х	Х	-	Х	Х	Х	Х	Х

#### **National Regulations**

Compo	onent	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class
.alphaN	laphthol	WGK 1	

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

Take note of Dir 94/33/EC on the protection of young people at work

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

### **SECTION 16: OTHER INFORMATION**

#### 1-Naphthol

Full text of H-Statements referred to under sections 2 and 3 H302 - Harmful if swallowed H312 - Harmful in contact with skin H315 - Causes skin irritation H318 - Causes serious eye damage H335 - May cause respiratory irritation	<u>gend</u>
CAS - Chemical Abstracts Service	<b>TSCA</b> - United States Toxic Substances Control Act Section 8(b) Inventory
<b>EINECS/ELINCS</b> - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances <b>PICCS</b> - Philippines Inventory of Chemicals and Chemical Substances <b>IECSC</b> - Chinese Inventory of Existing Chemical Substances <b>KECL</b> - Korean Existing and Evaluated Chemical Substances	
<ul> <li>WEL - Workplace Exposure Limit</li> <li>ACGIH - American Conference of Governmental Industrial Hygienists</li> <li>DNEL - Derived No Effect Level</li> <li>RPE - Respiratory Protective Equipment</li> <li>LC50 - Lethal Concentration 50%</li> <li>NOEC - No Observed Effect Concentration</li> <li>PBT - Persistent, Bioaccumulative, Toxic</li> </ul>	<ul> <li>TWA - Time Weighted Average</li> <li>IARC - International Agency for Research on Cancer</li> <li>PNEC - Predicted No Effect Concentration</li> <li>LD50 - Lethal Dose 50%</li> <li>EC50 - Effective Concentration 50%</li> <li>POW - Partition coefficient Octanol:Water</li> <li>vPvB - very Persistent, very Bioaccumulative</li> </ul>
<ul> <li>ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road</li> <li>IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code</li> <li>OECD - Organisation for Economic Co-operation and Development</li> <li>BCF - Bioconcentration factor</li> <li>Key literature references and sources for data</li> <li>Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, F</li> </ul>	ICAO/IATA - International Civil Aviation Organization/International Air Transport Association MARPOL - International Convention for the Prevention of Pollution from Ships ATE - Acute Toxicity Estimate VOC - Volatile Organic Compounds

#### **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

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Revision Summary	Update to Format.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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 Safety Data Sheet