



## Creation Date 15-Dec-2009

Revision Date 10-Nov-2010

**Revision Number** 1

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Product Description: Cat No.

alpha-Pinene 164360000; 164360010; 164360050; 164362500

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 sheet

 Company

 Acros Organics BVBA

 Janssen Pharmaceuticalaan 3a

 2440 Geel, Belgium

 E-mail address
 begel.sdsdesk@thermofisher.com

 Emergency Telephone Number

 For information in the US, call: 800-ACROS-01

 For information in Europe, call: +32 14 57 52 11

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

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

# 2. HAZARDS IDENTIFICATION

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

Aspiration Toxicity	Category 1
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion / irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Skin Sensitization	Category 1
Chronic aquatic toxicity	Category 2
Flammable liquids.	Category 3

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

For the full text of the R phrases mention	oned in this Section, see Section 16
Symbol(s)	Xn - Harmful
	N - Dangerous for the environment
R -phrase(s)	R10 - Flammable
,	R20 - Harmful by inhalation
	R43 - May cause sensitization by skin contact
	R65 - Harmful: may cause lung damage if swallowed
Risk Combination Phrases	R36/38 - Irritating to eyes and skin
	R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment

# 2. HAZARDS IDENTIFICATION





### Signal Word

Danger

### **Hazard Statements**

H304 - May be fatal if swallowed and enters airways

- H317 May cause an allergic skin reaction
- H332 Harmful if inhaled
- H411 Toxic to aquatic life with long lasting effects
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H226 Flammable liquid and vapor

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

P280 - Wear eye protection/face protection

P301+ P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician

- P331 Do NOT induce vomiting
- P273 Avoid release to the environment

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

- P302+ P352 IF ON SKIN: Wash with plenty of soap and water
- P280 Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

### **Other Hazards**

No information available.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.

## ACR16436 - alpha-Pinene

	3. COMPOSITION/INFORMATION ON INGREDIENTS				
.alphaPinene	EEC No. 201- 291-9	>95	80-56-8	R10 Xn; R20 Xi; R36/38 R43 N; R51-53 Xn; R65;	Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Acute Tox. 4 (H332) Aquatic Chronic 2 (H411)

## For the full text of the R phrases mentioned in this Section, see Section 16

## **4. FIRST AID MEASURES**

Description of first aid measures 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
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

## **5. FIRE-FIGHTING MEASURES**

### Extinguishing media

### Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide Cool closed containers exposed to fire with water spray

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

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

Flammable Containers may explode when heated Vapors may form explosive mixtures with air Vapors may travel to source of ignition and flash back

### 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

# 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment Remove all sources of ignition Take precautionary measures against static discharges

## Environmental precautions

Should not be released into the environment

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

Soak up with inert absorbent material Keep in suitable and closed containers for disposal Remove all sources of ignition Use sparkproof tools and explosion-proof equipment

## 7. HANDLING AND STORAGE

#### Precautions for Safe Handling

Use only under a chemical fume hood Wear personal protective equipment Keep away from open flames, hot surfaces and sources of ignition Use only non-sparking tools Use explosion-proof equipment Do not breathe vapors or spray mist Do not get in eyes, on skin, or on clothing Do not ingest Take precautionary measures against static discharges

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

Keep containers tightly closed in a dry, cool and well-ventilated place Keep away from heat and sources of ignition Flammables area

#### Specific End Uses

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits						
Component	European Union	The United Kingdom	France	Belgium	Spain	
.alphaPinene	-			TWA: 20 ppm	•	
Component	Italy	Portugal	The Netherlands	Finland	Denmark	
.alphaPinene		TWA: 20 ppm			2000	
Component	Austria	Switzerland	Poland	Norway	Ireland	
.alphaPinene	Austria	Ownzeniand	i oland	TWA: 140 mg/m <sup>3</sup> TWA: 25 ppm	Ircialia	
Derived No Effect Level (I Predicted No Effect Conc (PNEC) Exposure controls Engineering Measures Personal protective equ	entration No info Use or close to	ormation available. ormation available. Ily under a chemical fun o the workstation locatio				
Eye Protection Hand Protection Skin and body prot Respiratory Protect	ection Safety Protect Wear a tion Follow 149. U	Safety glasses with side-shields 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 limits are exceeded or if irritation or other symptoms are experienced				
Hygiene Measures Environmental exposure (		in accordance with goo ormation available.	od industrial hygiene a	and safety practice		

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance odor pH Vapor Pressure Vapor Density Viscosity Boiling Point/Range Melting Point/Range Flash Point Explosion Limits Lower Upper Water Solubility Specific Gravity

**Molecular Formula** 

**Molecular Weight** 

Liquid Colorless odorless No information available. 5 mmHg @ 25 °C 4.70 <7 mm²/s at 40 °C 154 - 157°C / 309.2 - 314.6°F@ 760 mmHg -55°C / -67°F 38°C / 100.4°F 0.8 vol%

# **10. STABILITY AND REACTIVITY**

6 vol%

0.850

Insoluble

C10 H16

136.24

Reactivity Chemical Stability Stable under normal conditions.

Possibility of Hazardous Reactions Hazardous Polymerization Hazardous Reactions .

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

Conditions to Avoid Incompatible products, Heat, flames and sparks.

Incompatible Materials Strong oxidizing agents. Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

# **11. TOXICOLOGICAL INFORMATION**

### Information on Toxicological Effects

Acute Toxicity Product Information

Product does not present an acute toxicity hazard based on known or supplied information

## **Component Information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
.alphaPinene	2100 mg/kg (Rat)	5000 mg/kg (Rat)	

## Chronic Toxicity Carcinogenicity

There are no known carcinogenic chemicals in this product

Sensitization	
Mutagenic Effects	
Reproductive Effects	
Developmental Effects	
Target Organs	
Other Adverse Effects	
Endocrine Disruptor Information	

May cause sensitization by skin contact No information available No information available. No information available. Respiratory system Eyes Skin See actual entry in RTECS for complete information None known

# **12. ECOLOGICAL INFORMATION**

## Toxicity

Ecotoxicity effects	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment			
Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
.alphaPinene		0.28 mg/L LC50 96 h		EC50 = 41 mg/L 48h

## Persistence and degradability

No information	available

# Bioaccumulative potential

Component	log Pow
.alphaPinene	4.1

#### Mobility in soil

No information available. Results of PBT and vPvB assessment Other adverse effects No information available

# **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods	
Waste from Residues / Unused	Dispose of in accordance with local regulations
Products	
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal

## **14. TRANSPORT INFORMATION**

### IMDG/IMO

UN-No	UN2368				
Hazard Class	3				
Packing Group	III				
Proper Shipping Name	alpha-Pinene				

### ADR

UN-No	UN2368
Hazard Class	3
Packing Group	III

## **14. TRANSPORT INFORMATION**

Proper Shipping Name

### IATA

UN-No	UN2368				
Hazard Class	3				
Packing Group	111				
Proper Shipping Name	alpha-Pinene				

## **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
.alphaPinene	201-291-9	-		Х	Х	-	Х	Х	Х	Х	KE-34427
											Х

### Legend

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

EINECS/ELINCS - European Inventory Lists

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

alpha-Pinene

**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**

## **16. OTHER INFORMATION**

### Text of R phrases mentioned in Section 2-3

R10 - FlammableR20 - Harmful by inhalationR43 - May cause sensitization by skin contactR65 - Harmful: may cause lung damage if swallowedR36/38 - Irritating to eyes and skinR51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

 Revision Date
 10-Nov-2010

 Revision Summary
 Not applicable

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

 Disclaimer

 The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its

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End of Safety Data Sheet