

Revision Date 30-Apr-2012

**Revision Number 2** 

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

**Product Identifier** 

Product Description: Safrole

Cat No. 132580000; 132580010; 132580050; 132582500

**Synonyms** 4-Allyl-1,2-(methylenedioxy)benzene

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

Recommended Use Laboratory chemicals
Uses advised against No 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: 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
Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 1B

### 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) T - Toxic

R-phrase(s) R45 - May cause cancer

R22 - Harmful if swallowed

R68 - Possible risk of irreversible effects

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### **SECTION 2. HAZARDS IDENTIFICATION**

**Label Elements** 



Signal Word Hazard Statements Danger

H350 - May cause cancer H302 - Harmful if swallowed

H341 - Suspected of causing genetic defects

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

P281 - Use personal protective equipment as required

P201 - Obtain special instructions before use

P308 + P313 - IF exposed or concerned: Get medical advice/ attention

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell

#### Other Hazards

No information available.

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

Component	EC-No.	Weight %	Classification		CLP Classification - Regulation (EC) No 1272/2008	REACH No.
Safrole	EEC No. 202-345-4	97	94-59-7	Xn; R22	Acute Tox. 4	-
94-59-7				Carc.Cat.2; R45	(H302)	
				Muta.Cat.3; R68	Muta. 2 (H341)	
					Carc. 1B (H350)	

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 Eye Contact

Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. Immediate medical attention is required.

**Ingestion** Call a physician immediately. Clean mouth with water.

**Inhalation** Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not

breathing, give artificial respiration. Immediate medical attention is required.

Notes to Physician Treat symptomatically

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

#### **Extinguishing media**

#### Suitable Extinguishing Media

Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. chemical foam.

#### 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.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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

Ensure adequate ventilation

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.. Wear self-contained breathing apparatus and protective suit. Do not let this chemical enter the environment.

### **SECTION 7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Do not breathe dust. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest. Use only in area provided with appropriate exhaust ventilation.



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Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition.

**Specific End Uses** 

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters** 

**Exposure limits** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

**Biological limit values** This product, as supplied, does not contain any hazardous materials with biological limits

established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)** 

**Predicted No Effect Concentration** 

(PNEC)

No information available. No information available.

**Exposure controls** 

**Engineering Measures** 

Personal protective equipment

**Eye Protection Hand Protection** 

Skin and body protection **Respiratory Protection** 

Ensure adequate ventilation, especially in confined areas

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 limits

are exceeded or if irritation or other symptoms are experienced

**Hygiene Measures** 

**Environmental exposure controls** 

Handle in accordance with good industrial hygiene and safety practice

No information available.

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

**Physical State** Liquid **Appearance** 

Light yellow odor aromatic рΗ No information available.

**Vapor Pressure** 1 mmHg @ 63.8 °C **Vapor Density** 5.59

**Boiling Point/Range** 232 - 234°C / 449.6 - 453.2°F@ 760 mmHg 11.2°C / 52.2°F

Melting Point/Range 97°C / 206.6°F **Flash Point** 

**Autoignition Temperature** No information available.

Water Solubility Insoluble **Specific Gravity** 1.090 **Molecular Formula** C10 H10 O2 **Molecular Weight** 162.19

**ACR13258** 



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### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity

**Chemical Stability** 

Stable under normal conditions.

**Possibility of Hazardous Reactions** 

Hazardous Polymerization Hazardous Reactions.

Hazardous polymerization does not occur.

No information available.

**Conditions to Avoid** 

Incompatible products.

**Incompatible Materials** 

Strong oxidizing agents.

**Hazardous Decomposition Products** 

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

### **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Information on Toxicological Effects**

**Acute Toxicity** 

**Product Information**No acute toxicity information is available for this product

**Component Information** 

**Component** Safrole

LD50 Oral	LD50 Dermal	LC50 Inhalation
1950 mg/kg (Rat)	5 g/kg (Rabbit)	

**Chronic Toxicity** 

Carcinogenicity Component Safrole

The table below indicates whether each agency has listed any ingredient as a carcinogen							
IARC	UK						
Group 2B							

**Sensitization** No information available.



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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 EffectsNo information available.Developmental EffectsNo information available.Target OrgansNo information available.

Other Adverse Effects See actual entry in RTECS for complete information

Endocrine Disruptor Information None known

### **SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity** 

**Ecotoxicity effects** Do not empty into drains

Persistence and degradability

No information available

**Bioaccumulative potential** 

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

Other adverse effects

No information available

### **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 Not regulated

ADR Not regulated

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### **SECTION 14. TRANSPORT INFORMATION**

IATA Not regulated

### **SECTION 15. REGULATORY INFORMATION**

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

#### **International Inventories**

Component	<b>EINECS</b>	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Safrole	202-345-4	-		Χ	-	Χ	Χ	Χ	Χ	Χ	X

### Legend

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

**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

R45 - May cause cancer

R22 - Harmful if swallowed

R68 - Possible risk of irreversible effects

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**Revision Summary** 

Reason for revision Not applicable

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



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### **SECTION 16. OTHER INFORMATION**

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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