

# SAFETY DATA SHEET

Revision Date 11-Nov-2010 Revision Number 1

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Description: Piperonyl butoxide

Cat No. 334160000; 334160050; 334161000; 334165000

Synonyms PBO

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: 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

R -phrase(s)

Acute dermal toxicity	Category 3
Chronic aquatic toxicity	Category 2

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

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

Symbol(s) T - Toxic

N - Dangerous for the environment R24 - Toxic in contact with skin

Risk Combination Phrases R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment

## 2. HAZARDS IDENTIFICATION

#### **Label Elements**



Signal Word Danger

#### **Hazard Statements**

H411 - Toxic to aquatic life with long lasting effects

H311 - Toxic in contact with skin

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water

P273 - Avoid release to the environment

#### Other Hazards

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
Piperonyl butoxide	EEC No. 200-	90	51-03-6	T; R24	Acute Tox. 3	
	076-7			N; R51-53	(H311)	
					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** Immediate medical attention is required Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes

Skin Contact Wash off immediately with soap and plenty of water 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 Obtain medical attention

Notes to Physician Treat symptomatically

### 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

### 6. ACCIDENTAL RELEASE MEASURES

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

Do not get in eyes, on skin, or on clothing

**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 and closed containers for disposal

#### 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 Use only in area provided with appropriate exhaust ventilation

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place Keep container tightly closed

Specific End Uses

### 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.

Derived No Effect Level (DNEL)
Predicted No Effect Concentration

No information available. No information available.

(PNEC)

Exposure controls
Engineering Measures

Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Eye Protection Goggles

Hand Protection Protective gloves

**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection 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 Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls** No information available.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State viscous liquid, Liquid

**Appearance** Yellow

pHNo information available.Boiling Point/Range180°C / 356°F@ 1 mmHgMelting Point/RangeNo information available.

Flash Point 170°C / 338°F

Water Solubility practically insoluble in water

Specific Gravity1.060Molecular FormulaC19 H30 O5Molecular Weight338.44

### 10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization No information available. Hazardous Reactions . 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>).

### 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

 Piperonyl butoxide
 6150 mg/kg (Rat)
 7950 mg/kg (Rat)

**Chronic Toxicity** 

Carcinogenicity There are no known carcinogenic chemicals in this product

**Sensitization** May cause sensitization by inhalation

Mutagenic EffectsNo information availableReproductive EffectsNo information available.Developmental EffectsNo information available.Target OrgansRespiratory system

Target OrgansRespiratory systemOther Adverse EffectsSee actual entry in

Endocrine Disruptor Information

See actual entry in RTECS for complete information

 
 Component
 EU - Endocrine Disrupters Candidate List
 EU - Endocrine Disruptors -Evaluated Substances
 Japan - Endocrine Disruptor Information

 Piperonyl butoxide
 Group III Chemical
 Information

### 12. ECOLOGICAL INFORMATION

**Toxicity** 

**Ecotoxicity effects**Contains no substances known to be hazardous to the environment or that are not degradable

in waste water treatment plants

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

### 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused

**Products** 

**Contaminated Packaging** 

Dispose of in accordance with local regulations

Empty containers should be taken for local recycling, recovery or waste disposal

### 14. TRANSPORT INFORMATION

IMDG/IMO

UN-No 2810 Hazard Class 6.1 Packing Group II

**ADR** 

**UN-No** 2810

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### 14. TRANSPORT INFORMATION

Hazard Class 6.1 Packing Group II

**IATA** 

UN-No 2810 Hazard Class 6.1 Packing Group II

### 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
Piperonyl butoxide	200-076-7	-		X	X	-	X	X	X	X	KE-04141
											X

#### 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

**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

R24 - Toxic in contact with skin

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Revision Date 11-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 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**