## SIGMA-ALDRICH

## **Material Safety Data Sheet**

Version 4.0 Revision Date 02/27/2010 Print Date 09/13/2011

	IDENTIFICATION

Product name	: Ibuprofen
Product Number	: I110
Brand	: Sigma
Company	: Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
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## 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

## **OSHA Hazards**

Target Organ Effect, Harmful by ingestion., Teratogen

## **Target Organs**

Kidney

#### GHS Label elements, including precautionary statements

Pictogram	
Signal word	Warning
Hazard statement(s) H302	Harmful if swallowed.
Precautionary statement(s) P264 P270 P301 + P312 P330 P501	Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Dispose of contents/container to an approved waste disposal plant.
HMIS Classification Health hazard: Chronic Health Hazard: Flammability: Physical hazards:	1 * 0 0
NFPA Rating Health hazard: Fire: Reactivity Hazard:	1 0 0
Potential Health Effects	
Inhalation Skin Eyes Ingestion	May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. Harmful if swallowed.

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

Synonyms	Ibuprofen	<ul> <li>α-Methyl-4-(isobutyl)phenylacetic acid</li> <li>Ibuprofen</li> <li>(±)-2-(4-Isobutylphenyl)propanoic acid</li> </ul>		
Formula Molecular Weight	: C <sub>13</sub> H <sub>18</sub> O <sub>2</sub> : 206.28 g/mol			
CAS-No.	EC-No.	Index-No.	Concentration	
Ibuprofen				
15687-27-1	239-784-6	-	-	

#### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

#### Suitable extinguishing media

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

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

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

#### Environmental precautions

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Conditions for safe storage

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

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

#### Eye protection

Safety glasses with side-shields conforming to EN166

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form	solid
Safety data	
рН	no data available
Melting point	77 - 78 °C (171 - 172 °F)
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available

## **10. STABILITY AND REACTIVITY**

#### Chemical stability

Stable under recommended storage conditions.

#### Conditions to avoid

no data available

Materials to avoid Strong oxidizing agentsStrong oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

## **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity LD50 Oral - rat - 636 mg/kg

Skin corrosion/irritation no data available

Serious eye damage/eye irritation

#### no data available

# Respiratory or skin sensitization no data available

## Germ cell mutagenicity

no data available

## Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## Reproductive toxicity

Possible risk of congenital malformation in the fetus.

## Specific target organ toxicity - single exposure (GHS)

no data available

## Specific target organ toxicity - repeated exposure (GHS)

no data available

## Aspiration hazard

no data available

## Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

## Signs and Symptoms of Exposure

Gastrointestinal disturbance, Nausea, Vomiting, Diarrhoea, Constipation., Dizziness, Headache, Drowsiness

Additional Information RTECS: MU6640000

## **12. ECOLOGICAL INFORMATION**

## Toxicity

no data available

Persistence and degradability no data available

**Bioaccumulative potential** no data available

Mobility in soil no data available

## PBT and vPvB assessment

no data available

## Other adverse effects

no data available

## **13. DISPOSAL CONSIDERATIONS**

### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

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

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

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

#### **OSHA Hazards**

Target Organ Effect, Harmful by ingestion., Teratogen

#### **DSL Status**

All components of this product are on the Canadian DSL list.

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know Components

Ibuprofen	CAS-No. 15687-27-1	Revision Date
New Jersey Right To Know Components		Devision Dete
Ibuprofen	CAS-No. 15687-27-1	Revision Date

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### **16. OTHER INFORMATION**

#### Further information

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