# SIGMA-ALDRICH

sigma-aldrich.com

SAFETY DATA SHEET

Version 5.1 Revision Date 07/03/2014 Print Date 11/20/2018

# 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 **Product identifiers** Product name

		10001010101
Product Number Brand Index-No.	:	36137 Sigma-Aldrich 006-044-00-7
CAS-No.	:	34123-59-6

:

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

Isoproturon

Identified uses : Laboratory chemicals, Manufacture of substances

#### Details of the supplier of the safety data sheet 1.3

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone Fax	-	+1 800-325-5832 +1 800-325-5052

#### 1.4 **Emergency telephone number**

Emergency Phone #	:	+1-703-527-3887	(CHEMTREC)
-------------------	---	-----------------	------------

# 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity, Inhalation (Category 4), H332 Carcinogenicity (Category 2), H351 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word	Warning
Hazard statement(s) H332 H351 H410	Harmful if inhaled. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	Obtain special instructions before use.
P201	Do not handle until all safety precautions have been read and
P202	understood.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.

Sigma-Aldrich - 36137

P281 P304 + P340	Use personal protective equipment as required. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances Synonyms

: 3-(4-Isopropylphenyl)-1,1-dimethylurea

Formula		
Formula	•	C <sub>12</sub> H <sub>18</sub> N <sub>2</sub> O
Molecular Weight	:	206.28 g/mol
CAS-No.	:	34123-59-6
EC-No.	:	251-835-4
Index-No.	:	006-044-00-7

### Hazardous components

Component	Classification	Concentration
Isoproturon		
	Acute Tox. 4; Carc. 2; Aquatic	-
	Acute 1; Aquatic Chronic 1;	
	H332, H351, H410	
For the full toxt of the U. Statements mentioned in this S.	action and Section 16	•

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 4. FIRST AID MEASURES

# 4.1 Description of 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

Flush eyes with water as a precaution.

#### If swallowed

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

- **4.2** Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- **4.3** Indication of any immediate medical attention and special treatment needed no data available

# **5. FIREFIGHTING MEASURES**

### 5.1 Extinguishing media

### Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture Carbon oxides, nitrogen oxides (NOx)

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

# 5.4 Further information

no data available

# 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

- 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- **6.4 Reference to other sections** For disposal see section 13.

# 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

**7.2** Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

**Components with workplace control parameters** Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

### Appropriate engineering controls

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

### Personal protective equipment

#### **Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid Colour: colourless
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	no data available
e)	Melting point/freezing point	Melting point/range: 152 - 156 °C (306 - 313 °F)
f)	Initial boiling point and boiling range	no data available
g)	Flash point	100 °C (212 °F) - closed cup
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
I)	Vapour density	no data available
m)	Relative density	1.160 g/cm3
n)	Water solubility	slightly soluble
0)	Partition coefficient: n- octanol/water	log Pow: 2.5 at 25 °C (77 °F)
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available
Other safety information no data available		

# **10. STABILITY AND REACTIVITY**

# 10.1 Reactivity no data available

9.2

- **10.2 Chemical stability** Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions no data available
- **10.4** Conditions to avoid no data available
- **10.5 Incompatible materials** Strong oxidizing agents

Sigma-Aldrich - 36137

### **10.6 Hazardous decomposition products**

Other decomposition products - no data available In the event of fire: see section 5

# 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

### Acute toxicity

LD50 Oral - rat - > 2,000 mg/kg

LC50 Inhalation - rat - 4 h - > 1,950 mg/m3

LD50 Dermal - rat - > 2,000 mg/kg

no data available

**Skin corrosion/irritation** Skin - rabbit Result: No skin irritation

### Serious eye damage/eye irritation

Eyes - rabbit Result: No eye irritation

**Respiratory or skin sensitisation** no data available

Germ cell mutagenicity

mouse Micronucleus test

mouse sperm

#### Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

- 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**

no data available

Reproductive toxicity - rat - Oral

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

no data available

Specific target organ toxicity - single exposure no data available

# Specific target organ toxicity - repeated exposure

no data available

#### Aspiration hazard no data available

# **Additional Information**

# RTECS: YT0170000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **12. ECOLOGICAL INFORMATION**

### 12.1 Toxicity

EC50 - Desmodesmus subspicatus (green algae) - 0.01 mg/l - 72 h Toxicity to algae

#### 12.2 Persistence and degradability Biodegradability Result: - Not readily biodegradable.

#### 12.3 **Bioaccumulative potential** no data available

#### 12.4 Mobility in soil no data available

#### Results of PBT and vPvB assessment 12.5 PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

### **13. DISPOSAL CONSIDERATIONS**

### 13.1 Waste treatment methods

### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

# Contaminated packaging

Dispose of as unused product.

# **14. TRANSPORT INFORMATION**

### DOT (US)

Not dangerous goods

### IMDG

EMS-No: F-A, S-F UN number: 3077 Class: 9 Packing group: III Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Isoproturon) Marine pollutant: Marine pollutant

# ΙΑΤΑ

UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Isoproturon)

### **Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

# 15. REGULATORY INFORMATION

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. Sigma-Aldrich - 36137

#### 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

#### **Massachusetts Right To Know Components**

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

#### Pennsylvania Right To Know Components

Isoproturon	CAS-No. 34123-59-6	Revision Date
New Jersey Right To Know Components	CAS-No.	Revision Date
Isoproturon	34123-59-6	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**

#### Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Aquatic Acute Aquatic Chronic Carc. H332 H351 H400 H410	Acute toxicity Acute aquatic toxicity Chronic aquatic toxicity Carcinogenicity Harmful if inhaled. Suspected of causing cancer. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
HMIS Rating Health hazard: Chronic Health Haz Flammability: Physical Hazard	3 ard: 1 0
<b>NFPA Rating</b> Health hazard: Fire Hazard: Reactivity Hazard:	2 1 0

### Further information

Copyright 2014 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

### **Preparation Information**

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

Version: 5.1

Revision Date: 07/03/2014

Print Date: 11/20/2018