

# cdhfinechemical.com

# -IONONE CAS NO 79-77-6

# MATERIAL SAFETY DATA SHEET SDS/MSDS

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1 Product identifiers

Product name : -Ionone

CAS-No. : 79-77-6

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

Identified uses : Laboratory chemicals, Industrial & for professional use only.

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

Company	:	Central Drug House (P) Ltd 7/28 Vardaan House New Delhi -110002 INDIA
Telephone Email	:	+91 11 49404040 care@cdhfinechemical.com

## **1.4 Emergency telephone number** Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

# 2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

## 2.3 Other hazards - none

## **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Synonyms	:	4-(2,6,6-Trimethyl-1-cyclohexenyl)-3-buten-2-one beta-lonone
Formula	:	C <sub>13</sub> H <sub>20</sub> O
Molecular wei	ght :	192.30 g/mol
CAS-No.	:	79-77-6
EC-No.	:	201-224-3

No components need to be disclosed according to the applicable regulations.

## **SECTION 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.

### 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

#### **SECTION 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
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

## **SECTION 6: Accidental release measures**

- 6.1 **Personal precautions, protective equipment and emergency procedures** Avoid breathing vapours, mist or gas. Ensure adequate ventilation. 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 Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

## SECTION 7: Handling and storage

- 7.1 **Precautions for safe handling** For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Combustible liquids not in Storage Class 3

## 7.3 Specific end use(s)

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

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### 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**

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**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. 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.

## **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Colour: light yellow
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	7
e)	Melting point/freezing point	-35 °C at 1,013 hPa
f)	Initial boiling point and boiling range	126 - 128 °C at 16 hPa - lit.
g)	Flash point	112 °C - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	ca.0.072 hPa at 25 °C

	I)	Vapour density	No data available
	m)	Relative density	0.945 g/cm3 at 25 °C
	n)	Water solubility	0.11 g/l at 20 °C - OECD Test Guideline 105
	o)	Partition coefficient: n- octanol/water	log Pow: 4 at 25 °C
	p)	Auto-ignition temperature	273 °C at 1,010 - 1,017 hPa
	q)	Decomposition temperature	No data available
	r)	Viscosity	11.2 mm2/s at 20 °C -
	s)	Explosive properties	No data available
	t)	Oxidizing properties	No data available
Other safety information			
		Surface tension	39.52 mN/m at 20 °C

## **SECTION 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
- 10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## Acute toxicity

LD50 Oral - Rat - 7,120 mg/kg((E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one) LD50 Dermal - Rat - male and female - > 2,000 mg/kg((E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2one) (OECD Test Guideline 402)

## Skin corrosion/irritation

Skin - Rabbit((E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one) Result: No skin irritation - 4 h (OECD Test Guideline 404)

## Serious eye damage/eye irritation

Eyes - Rabbit((E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one) Result: No eye irritation - 72 h

(OECD Test Guideline 405)

## Respiratory or skin sensitisation

- Guinea pig((E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one) Result: Does not cause skin sensitisation. (OECD Test Guideline 406)

## Germ cell mutagenicity

Ames test((E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one) S. typhimurium Result: negative Directive 67/548/EEC, Annex V, B.12.((E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one) Mouse - male Result: negative

#### 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.

## **Reproductive toxicity**

**Specific target organ toxicity - single exposure** No data available((E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one)

Specific target organ toxicity - repeated exposure No data available

#### Aspiration hazard

No data available((E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one)

#### **Additional Information**

Repeated dose toxicity - Rat - female - Oral - No observed adverse effect level - 83 mg/kg - Lowest observed adverse effect level - 801 mg/kg((E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one) RTECS: EN0500000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.((E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one)

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 5.09 mg/l - 96.0 h((E)-4- (2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one)	
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 4.03 mg/l - 48 h((E)-4-(2,6,6- Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one) (OECD Test Guideline 202)	
Toxicity to algae	static test EC50 - Desmodesmus subspicatus (green algae) - 22.15 mg/l - 72 h((E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one)	
Toxicity to bacteria	Respiration inhibition EC50 - Sludge Treatment - 100 - 200 mg/l - 180 min((E)- 4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one) (OECD Test Guideline 209)	
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## 12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d((E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-
	buten-2-one)
	Result: 70 - 80 % - Readily biodegradable

12.3	Bioaccumulative potential No data available		
12.4	<b>Mobility in soil</b> No data available((E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one)		
12.5	Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted		
12.6	Other adverse effects Toxic to aquatic life.		
SECT	FION 13: Disposal considerations		
13.1	1 Waste treatment methods		
	<b>Product</b> Offer surplus and non-recyclable solutions to a licensed disposal company.		
	<b>Contaminated packaging</b> Dispose of as unused product.		
SECT	FION 14: Transport information		
14.1	<b>UN number</b> ADR/RID: -	IMDG: -	IATA: -
14.2	UN proper shipping nameADR/RID:Not dangerous goodsIMDG:Not dangerous goodsIATA:Not dangerous goods		
14.3	Transport hazard class(es) ADR/RID: -	IMDG: -	IATA: -
14.4	Packaging group ADR/RID: -	IMDG: -	IATA: -
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6	<b>Special precautions for user</b> No data available		

## **SECTION 15: Regulatory information**

**15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

# **15.2 Chemical safety assessment** For this product a chemical safety assessment was not carried out

#### **SECTION 16: Other information**

#### **Further information**

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. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.