According to OHSA 29 CFR 1910.1200



1.1	Product identifier	Chemica	Chemic		
	CAS number:	59457-26-0	nFine		
	Product name:	1-Chloro-1,2-benziodoxol-31H-one	Hoffman Fine Cite		
	Catalog number:	HFC5890			
	Brand:	Hoffman Fine Chemicals	(4)		
	E nicals	E juicas	(F) nicals		
1.2	Relevant identified u	ses of the substance or mixture and	uses advised against		
	Identified uses:	For laboratory research purposes. No nor animal use.	ot for drug, household		
1.3	Details of the supplier of the safety data sheet				
	Company: Address:	Hoffman Fine Chemicals Pty Ltd			
		4 46-50 Buchanan Road, Brooklyn, Victoria, 3012, Australia			
	emicals	F	F		
	Telephone:	61 3 7003 5401	Hofman Fine chemicals		
	Fax:	er e rece e renar	ermant		
1.4	Emergency telephon	e number	Hor		
	Emergency	800-424-9300 CHEMTREC USA 1-703-527-3887 CHEMTREC			
	telephone number:	International 24 Hours/day; 7 Days/w	eek vic		
	F	F	F		
	FineCi	FineCo	FineCi		
	Joffman	-10ffmal.	Hoffman Fi		
SEC	TION 2: Hazards ider	tification	4.		
• •					
2.1	Classification of the substance or mixture				
	GHS Classification in accordance with 29 CFR 1910(OSHA HCS)				
	Skin corrosjon/irritationCategory 2, H315 Serious eye damage/eye irritationCategory 2, H319 Specific target organ toxicity, single exposure;Respiratory systemCategory 3, H335				
	Serious eye damage/eye irritationCategory 2, H319				
	Carlos if a target argen tavia		2 11225 offman		
	Specific target organ toxic	ity, single exposure;Respiratory systemCategory	3, H335 <sup>00</sup>		

For the Full text of H-Statement mentioned in this Section: see SECTION 16.

Fine

Fine

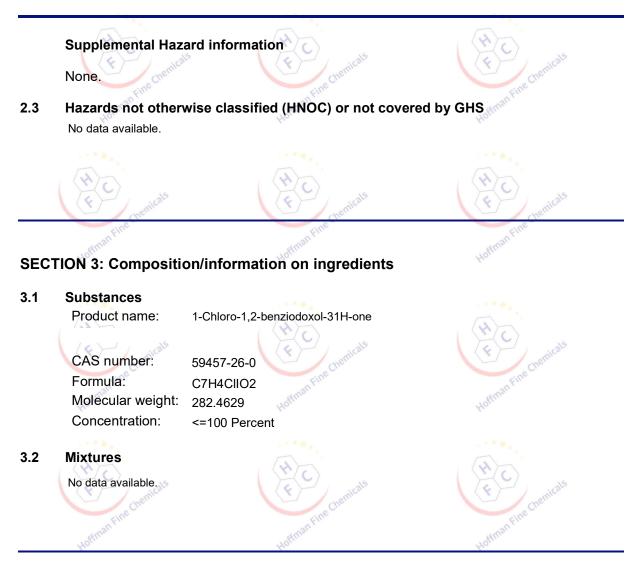
According to OHSA 29 CFR 1910.1200



2.2	GHS Label elements, including precautionary statement				
	Hazard pictogra	ams cremical	F.C. Chemicals		
	Fine	ams Hoffman Fine theme	nan Fine L		
		Hoffin	Hoffin		
		(I)	(a)		
	Signal word	s Free const	r c icals		
	Warning	e chemic	F.C. Chemicals		
	erman Fin	Hoffman Fine Cite	etman Fill		
	Hazard stateme	ents	Hor		
	H315 Causes skin irritation				
	H319	Causes serious eye irritation			
	H335	May cause respiratory irritation	(th) C is		
	(F) Chemical	(F) chemical	Chemical		
	antine	oanFine	Hofman fine Che		
	Hoffman fine chemical	May cause respiratory irritation	Hoffin		
	Precautionary s	statements			
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	E C 135		
	P264 Fine Cheme	Wash hands thoroughly after handling. Wash skin tho	uroughly after handling.		
	P271	Use only outdoors or in a well-ventilated area	e sinan Fin		
	P280	Wear protective gloves/protective clothing/eye protecti	ion/face protection.		
	P302 P352	IF ON SKIN: wash with plenty of soap and water.			
	P304 P340 P312	IF INHALED: Remove victim to fresh air and keep at re	est in a position comfortable for		
	A C	breathing. Call a POISON CENTER or doctor/physician if you fee	(MC)		
	P305 P351 P338	IF IN EYES: Rinse cautiously with water for several m	hemit		
	anFill	present and easy to do. Continue rinsing.	anfil		
	P332 P313	IF SKIN irritation occurs: Get medical advice/attention.	Ho		
	P337 P313	IF eye irritation persists: Get medical advice/attention.			
	P403 P233	Store in a well-ventilated place. Keep container tightly	closed.		
	P405 C P501	Store locked up. Dispose of contents/container to in accordance with lo	cal regulation		
	P501 Hoffman Fine Chemica		cal regulation		
	ennan Fin	Hoffman Fine Cite	etnan Fili		
	Hor	Hor.	Hor		

According to OHSA 29 CFR 1910.1200





## **SECTION 4: First aid measures**

4.1 Description of first aid measures

## **General** information

Consult a physician. Show this material 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.

According to OHSA 29 CFR 1910.1200



## In case of skin contact

Take off contaminated clothing and shoes immediately. 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. Continue rinsing eyes during transport to hospital.

### If swallowed

Provided the patient is conscious, wash out mouth with water. Vomiting should only be induced under the direction of a physician or a poison control centre.

### 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

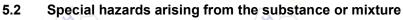
### Suitable extinguishing media

alcohol-resistant foam, dry chemical or carbon dioxide

# Unsuitable extinguishing media

No data available.

Hoffman Fine



Hoffman Fine

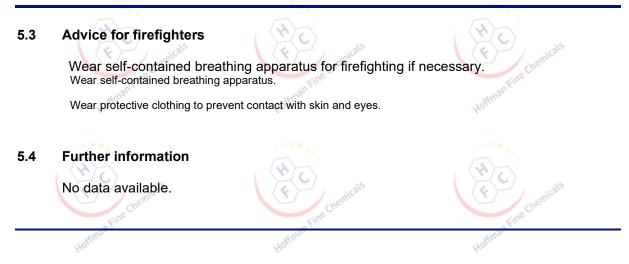
In combustion toxic fumes may form.





According to OHSA 29 CFR 1910.1200





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

#### 6.1 **Personal precautions, protective equipment and emergency procedures** Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas.

(F) dicais

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Do not attempt to take action without suitable protective clothing.

#### 6.2 Environmental protections

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or river. Alert the neighbourhood to the presence of fumes or gas.

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

Mix with sand or vermiculite. Sweep up and shovel. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

## 6.4 Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

# SECTION 7: Handling and storage

7.1 Precautions for safe handling

- a) Handle in accordance with good industrial hygiene and safety practice
- b) Take measures to prevent the build-up of electrostatic charge.

According to OHSA 29 CFR 1910.1200



- c) Provide appropriate exhaust ventilation at places where dust is formed.
- d) Avoid inhalation of vapor or mist.
- e) Not to eat, drink, smoke in work areas.
- f) To wash hands after use.
- g) To remove contaminated clothing and protective equipment before entering eating areas.

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 area

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Keep container tightly closed in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Keep in dark place, Inert atmosphere, 2-8C

## 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

### 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.

- a) Handle in accordance with good industrial hygiene and safety practice.
- b) Wash hands before breaks and at the end of workday.
- c) Suitable eye/body wash equipment should be available in the vicinity of any potential exposure.
- d) Ensure adequate ventilation, especially in confined areas.

According to OHSA 29 CFR 1910.1200



e) Use explosion-proof electrical appliances, ventilation, lighting and other equipment.
f) Set up emergency evacuation routes and necessary evacuation zones.

### Personal protective equipment

## Eye/face protection

Tightly fitting safety goggles. Face shield (8-inch minimum). 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, Flame retardant protective 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**

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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

Do not let product enter drains.

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

### 9.1 Information on basic physical and chemical properties

Appearance: Odor: Odor threshold: pH: Light yellow solid No data available.

No data available.

No data available.

Melting point/freezing point: No data available. Initial boiling point/boiling range: No data available.



According to OHSA 29 CFR 1910.1200



Flash point: Evaporation rate: Flammability (solid, gas): Upper explosive limits: Lower explosive limits: Vapor pressure: Vapor density: Relative density: Water solubility: Partition coefficient: noctanol/water Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidizing properties:

No data available. No data available.

9.2 Other information No data available.

# SECTION 10: Stability and reactivity

- 10.1 Reactivity No data available.
- **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.

Hoffman Fine







According to OHSA 29 CFR 1910.1200



10.5 Incompatible materials No data available. 10.6 Hazardous decomposition products Carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen iodide. **SECTION 11: Toxicological information** 11.1 Information on toxicological effects No data available. Acute toxicity: No data available. 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: Reproductive toxicity: No data available. Specific Target Organ Toxicity No data available. (Single Exposure): Specific Target Organ Toxicity No data available. (Repeated Exposure): No data available. Aspiration hazard: Chronic Symptoms: No data available. 11.2 **Additional information** 

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

## SECTION 12: Ecological information

### 12.1 Toxicity

No data available.

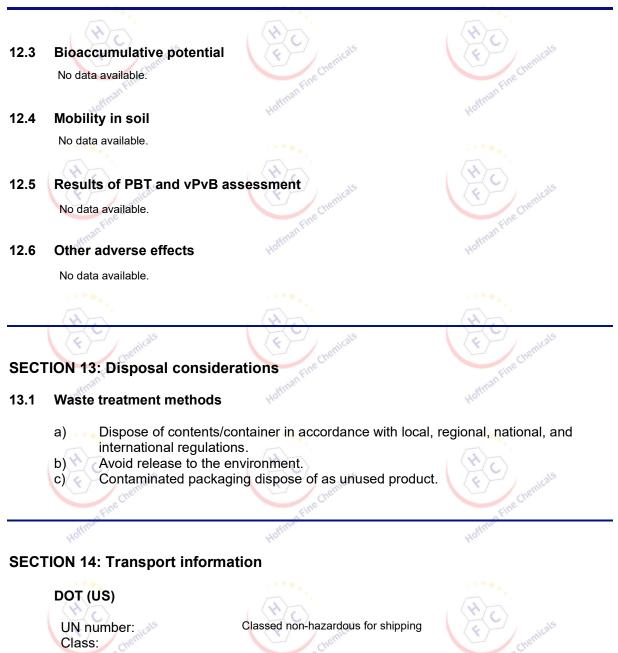
## 12.2 Persistence and degradability

No data available.

Page 9 of 12

According to OHSA 29 CFR 1910.1200





Class: Packing group: Proper shipping name:

Reportable quantity (RQ): Poison inhalation hazard:



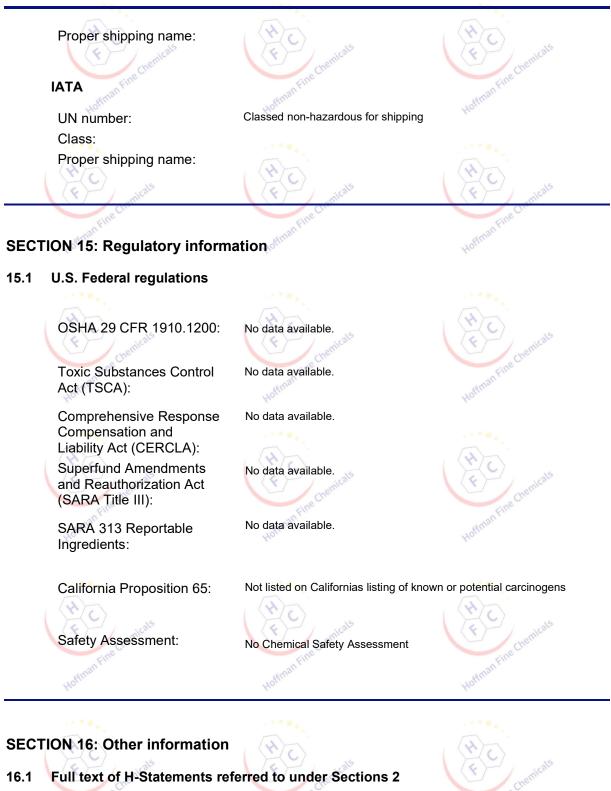
EMS-No:



Classed non-hazardous for shipping

According to OHSA 29 CFR 1910.1200





H315

Causes skin irritation

According to OHSA 29 CFR 1910.1200



H319 Causes serious eye irritation
H335 May cause respiratory irritation
If an and a serie of the series of the seri

The above information is provided without any warranty, express or implied, regarding its correctness and does not purport to be all inclusive and shall be used only as a guide. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. This Safety Data Sheet ('SDS') was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable

The conditions or methods of handling, storage, contact, use or disposal of the product are beyond our control and may be beyond our knowledge. 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. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of having unknown hazards and toxicity, which differ greatly depending on the conditions and/or duration of handling, storage, contact, use and/or disposal. The products must be handled only by those who are familiar with specialized knowledge and have experience and/or under the guidance of those specialists throughout handling, storage, contact, use and disposal. Safe usage conditions shall be set up on each user's own responsibility. New information or amendments may be made to this SDS.

For the abovementioned reasons and others, the Company listed in Section 16.2 of this SDS and its affiliates do not assume responsibility and expressly disclaim any liability for loss, damage and/or expense arising out of or in any way connected with the handling, storage, contact, use and/or disposal of this product.

FineCh

Version: 1 Revision Date: 1/13/2023 Print Date: 1/13/2023