According to OHSA 29 CFR 1910.1200



SEC	TION 1: Identification	of the substance/mixture and of the company/undertaking	
1.1	Product identifier CAS number: Product name:	72652-31-4 2,2,2-Trichloro-1- 4-chloro-1H-pyrrol-2-yl ethan-1-one	
	Catalog number: Brand:	HFC6233 Hoffman Fine Chemicals	
1.2	Relevant identified u Identified uses:	ses of the substance or mixture and uses advised against For laboratory research purposes. Not for drug, household nor animal use.	
1.3	Details of the supplier of the safety data sheet		
	Company: Address: Telephone: Fax:	Hoffman Fine Chemicals Pty Ltd 4 46-50 Buchanan Road, Brooklyn, Victoria, 3012, Australia 61 3 7003 5401	
1.4	Emergency telephone number		
	Emergency telephone number:	800-424-9300 CHEMTREC USA 1-703-527-3887 CHEMTREC International 24 Hours/day; 7 Days/week	
8E0	TION 2: Hozarda idan	tification Hol	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910(OSHA HCS)

Acute toxicity, oral Category 4, H302

Acute toxicity, dermal Category 4, H312

Skin corrosion/irritation Category 2, H315

Serious eye damage/eye irritation Category 2, H319

Acute toxicity, inhalation Category 4, H332

Specific target organ toxicity, single exposure; Respiratory tract irritation Category 3, H335

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

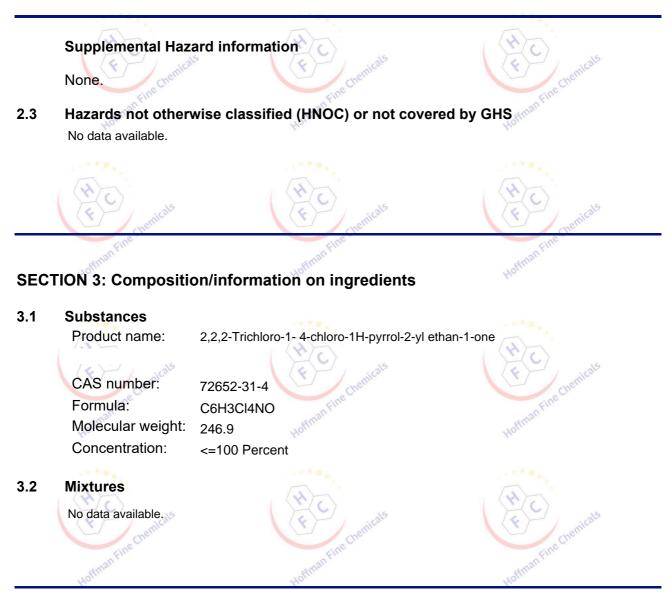
According to OHSA 29 CFR 1910.1200



2.2	GHS Label elen	nents, including precautionary statement		
	Hazard pictogra	ams Hofman Fire Cremicals		
	Fine	ams Hofman Fine Channy Hofman Fine Channy		
		Hoffme		
	•			
	(H)C	(#) 2 (#) 2		
	Signal word	Hofman Fine Chemicals		
	Warning	Hoffman Fine Che Hoffman Fine Che		
	Joffman.	Joffman.		
	Hazard statements			
	H302	Harmful if swallowed		
	H312	Harmful in contact with skin		
	H315 C	Causes skin irritation		
	H319	Causes serious eye irritation		
	H332 cine Che	Harmful if inhaled		
	H335	Causes skill initiation Causes serious eye irritation Harmful if inhaled May cause respiratory irritation		
	<i>b</i> .	k. K.		
	Precautionary s	statements		
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.		
	P264 echemi	Wash skin thouroughly after handling.		
	P264 P270	Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thouroughly after handling. Do not eat, drink or smoke when using this product.		
	P271	Use only outdoors or in a well-ventilated area.		
	P280	Wear protective gloves/protective clothing/eye protection/face protection.		
	P301 P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.		
	P302 P352	IF ON SKIN: Wash with plenty of soap and water.		
	P304 P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for		
	P305 P351 P338	breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if		
	P330	present and easy to do. Continue rinsing. Rinse mouth.		
	P332 P313	If skin irritation occurs: Get medical advice/attention.		
	P337 P313	If eye irritation persists: Get medical advice/attention.		
	P362	Take off contaminated clothing and wash before reuse.		
	P403 P233	If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up.		
	P405	Store locked up.		
	P501	Dispose of contents/container to an approved waste disposal plant.		

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

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

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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

Sand, carbon dioxide, dry chemical powder, or appropriate foam.

Unsuitable extinguishing media

No data available.



5.2 Special hazards arising from the substance or mixture

May emit toxic fumes under fire conditions including Carbon monoxide, Carbon dioxide, Hydrogen chloride, Nitrogen oxides.

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5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary. Wear a self-contained breathing apparatus in pressure-demand and full protective gear. Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: remove movable containers if safe to do so.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin andeyes.

5.4 Further information

No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

6.2 Environmental protections

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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 and upright. Avoid overheating. Store in a dry and well-ventilated place at RT.

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 No data available.

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.

e)

f)

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Use explosion-proof electrical appliances, ventilation, lighting and other equipment. 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:

Yellow to white solid

- No data available.
- No data available.

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

No data available.

118-122 C lit.



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:

- 9.2 Other information No data available.
- No data available. No data available.

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No data available.



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SECTION 10: Stability and reactivity

- 10.1 Reactivity No data available.
- **10.2 Chemical stability** No data available.

10.3 Possibility of hazardous reactions No data available.

10.4 Conditions to avoid No data available.

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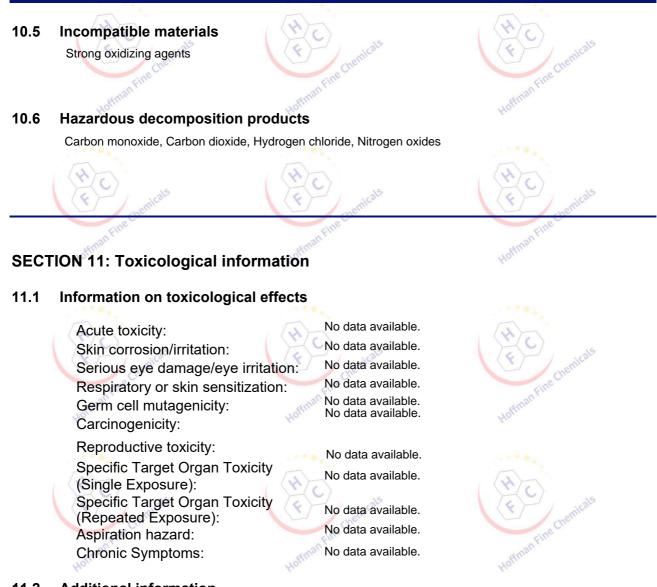






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11.2 Additional information

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

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SECTION 12: Ecological information

12.1 Toxicity

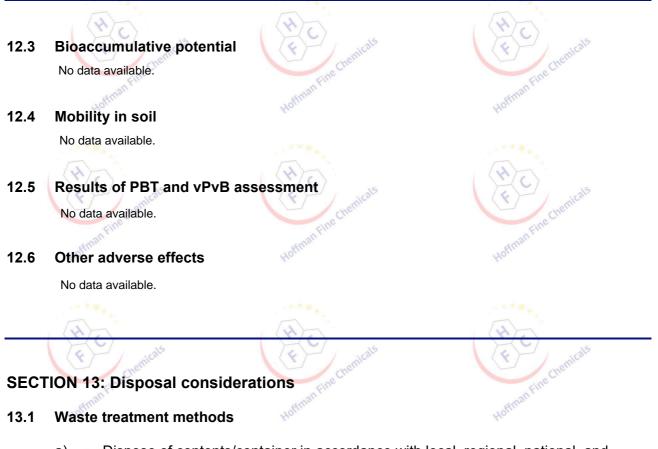
No data available.

12.2 Persistence and degradability

No data available.

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- Dispose of contents/container in accordance with local, regional, national, and a) international regulations.
- Avoid release to the environment. b)
- Contaminated packaging dispose of as unused product. c) <

SECTION 14: Transport information

EMS-No:

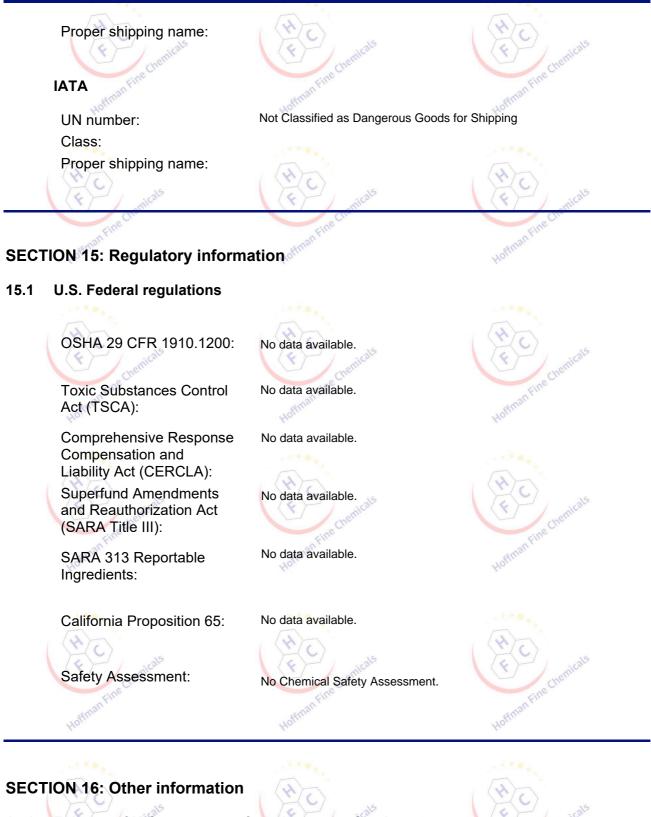
DOT (US) UN number: 🔊 Class: Packing group: Proper shipping name: Reportable quantity (RQ): Poison inhalation hazard: IMDG UN number: Not Classified as Dangerous Goods for Shipping Class:

Not Classified as Dangerous Goods for Shipping

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Full text of H-Statements referred to under Sections 2 16.1

H302

Harmful if swallowed



According to OHSA 29 CFR 1910.1200



Harmful in contact with skin H312 H315 Causes skin irritation H319 Causes serious eye irritation H332 Harmful if inhaled H335 May cause respiratory irritation **Further information** 16.2 The reference company name of written contents: Company: Hoffman Fine Chemicals Pty Ltd Address: 4 46-50 Buchanan Road, Brooklyn, Victoria, 3012, Australia Email: infoathoffmanchemicals.com Telephone: 61 3 7003 5401 Fax:

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.

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