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1.1	Product identifier	(F) themical			
	CAS number: Product name:	62717-50-4 2-2-Chlorophenyloxirane			
	Catalog number: Brand:	HFC2277 Hoffman Fine Chemicals			
1.2	Relevant identified uses of the substance or mixture and uses advised against				
	Identified uses:	For laboratory research purposes. Not for drug, household nor animal use.			
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			
	Telephone:	4 46-50 Buchanan Road, Brooklyn, Victoria, 3012, Australia 03 9315 3435			
	Fax:	Hoffma			
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			
	AmanFine	Hinan Fine			
SEC	TION 2: Hazards ide	ntification			
2.1	Classification of the substance or mixture				
	GHS Classification in accordance with 29 CFR 1910(OSHA HCS) Flammable liquids Category 4 H227				
	Acute toxicity, oralCatego	ry 4 H302			

Acute toxicity, dermal Category 4 H312

Skin corrosion/irritation Category 2 H315

Serious eye damage/eye irritationCategory 2A H319

CarcinogenicityCategory 1A, 1B H350

Fine

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

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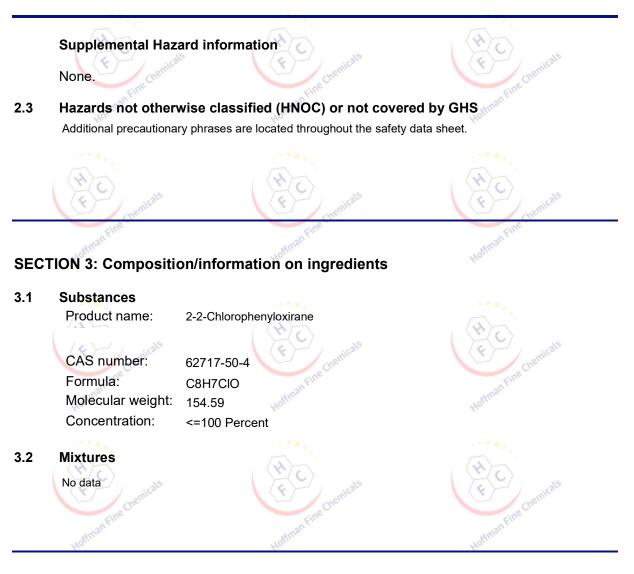
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2.2	GHS Label elen	nents, including precautionary statement	(A)C) 15		
	Hazard pictogra	ams cremical	FC chemicals		
	Fine	rman tine	erman Fine		
			How		
	(H)		(H)		
	Signal word	s FE Chomicals	Hoffman Fine Chemicals		
	Danger	finectie	Fine Che		
	Hoffman	Hofman	Hoffman		
	Hazard statements				
	H227	Combustible liquid			
	H302	Harmful if swallowed			
	H312	Harmful in contact with skin	m c ss		
	H315 hemica	Causes skin irritation	F themicat		
	H319 Fine Ci	Causes serious eye irritation	FineCo		
	H350	May cause cancer	Hoffman Fine Chamicals		
	N.		X*		
	Precautionary s	statements	(a)		
	P201	Obtain special instructions before use	E C isals		
	P202 Fine chemit	Do not handle until all safety precautions have been rea	d and understood.		
	P210	Keep away from heat/sparks/open flames/hot surfaces.	No smoking.		
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	W.		
	P264	Wash skin thoroughly after handling.			
	P270	Do not eat, drink or smoke when using this product.	(A)		
	P271	Use only outdoors or in a well-ventilated area.	FC chemicals		
	P273 Fine Cher	Avoid release to the environment	Fine cher		
	P280	Wear protective gloves/protective clothing/eye protection			
	P302 P352 P312	IF ON SKIN: Wash with plenty of soap and water. Call a doctor/physician if you feel unwell.	POISON CENTER or		
	P304 P340 P311	IF INHALED: Remove victim to fresh air and keep at res breathing. Call a POISON CENTER or doctor/physician	i le la		
	P305 P351 P338	Rinse cautiously with water for several minutes. Remove	e contact lenses		
	P312	Call a POISON CENTER or doctor/physician if you feel	e contact lenses		
	P332 P313	If skin irritation occurs: Get medical advice/attention.	TEIne		
	P337 P313 P405	If eye irritation persists: Get medical advice/attention.	Hoffmar		
	P501	Store locked up. Dispose of contents/container to in accordance with loca			
	1 001				

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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.

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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

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

Unsuitable extinguishing media

No data

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In combustion toxic fumes may form.





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5.3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary. Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. 5.4 Further information No data available.

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.

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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, transfer to suitable container and arrange disposal by approved disposal specialists.

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.

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- 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.

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.

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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: No data available No data available No data available No data available

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



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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
- 10.4 Conditions to avoid No data available

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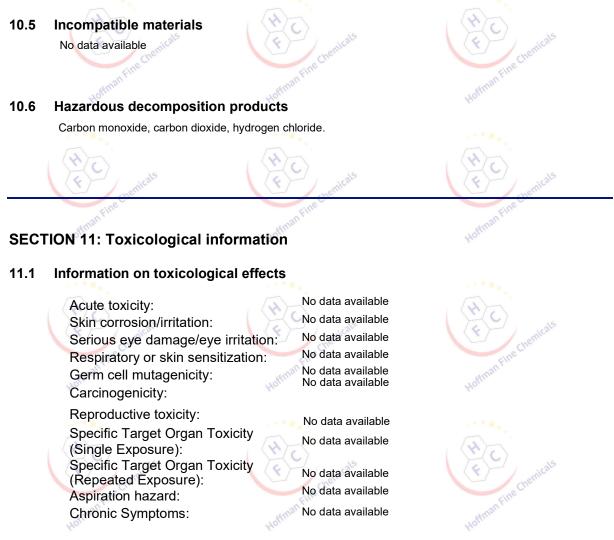






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11.2 Additional information

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

SECTION 12: Ecological information

12.1 Toxicity

No data available

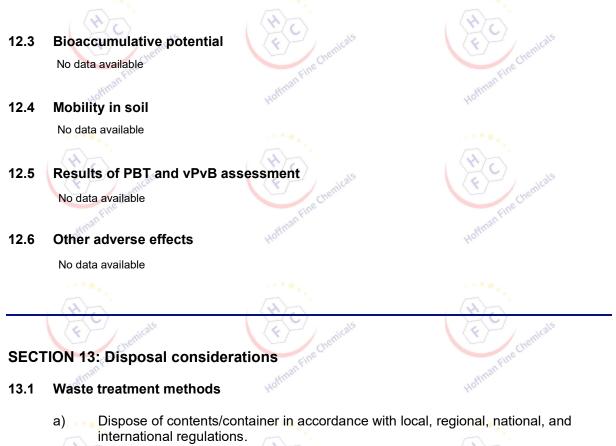
12.2 Persistence and degradability

No data available

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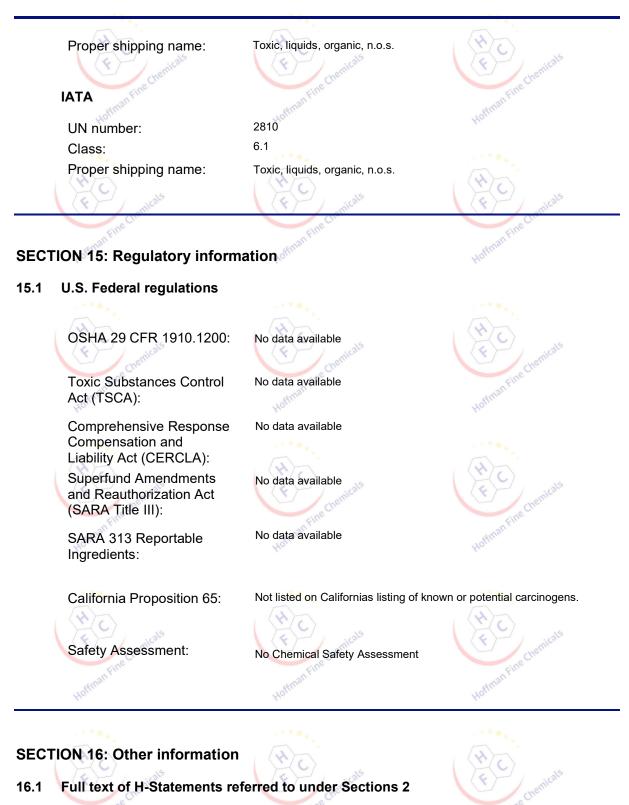
- b) Avoid release to the environment.
- c) Contaminated packaging dispose of as unused product.

SECTION 14: Transport information



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Combustible liquid

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H302 Harmful if swallowed H312 Harmful in contact with skin H315 Causes skin irritation H319 Causes serious eye irritation H350 May cause cancer 16.2 **Further information** The reference company name of written contents: Company: Hoffman Fine Chemicals Pty Ltd Address: 4 46-50 Buchanan Road, Brooklyn, Victoria, 3012, Australia Email: info at hoffmanchemicals.com Telephone: 03 9315 3435 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.

Fine

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