According to OHSA 29 CFR 1910.1200



SECT	ION 1: Identification	of the substance/mixture and of the company/undertaking
1.1	Product identifier CAS number: Product name:	17103-28-5 Methyl 4-chloro- 1,1-biphenyl -2-carboxylate
	Catalog number: Brand:	HFC6015 Hoffman Fine Chemicals
1.2	Relevant identified us	ses 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 supplie	r 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	e number
	Emergency telephone number:	800-424-9300 CHEMTREC USA 1-703-527-3887 CHEMTREC International 24 Hours/day; 7 Days/week
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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

Skin corrosion/irritation Category 2 H315

Serious eye damage/eye irritation Category 2A H319

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



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

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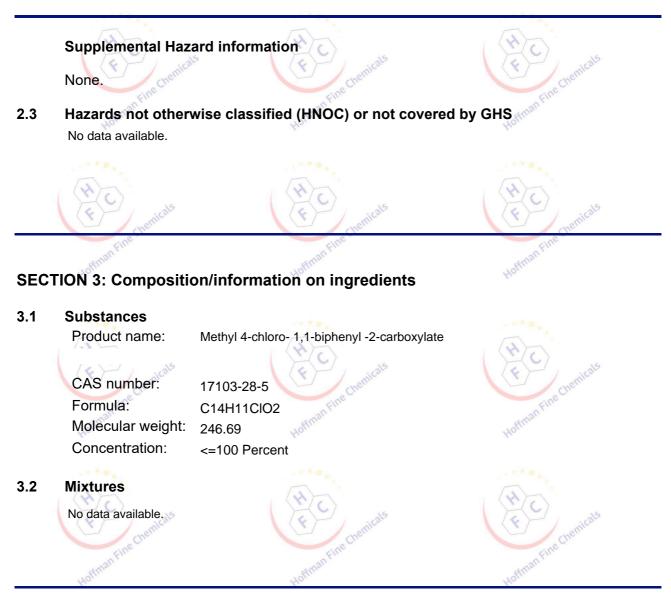
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Signal word	s Freemeals	Hoffman Fine Chemicals
wanning	manFine	manFine
Hazard stateme	hate Hattin	Hoffin
nazaru statements		
H302 H315	Harmful if swallowed Causes skin irritation	
H319	Causes serious eye irritation	(A)
L1225	May cause respiratory irritation	F
ine Che	reche	e Che
Kr.	FILL	EIII
Hoffmen Fire chemi	Hoffman Fine Cite	Hoffman Fine Chemicals
Precautionary s		
Precautionary s P261 P264	statements	
Precautionary s	statements Avoid breathing dust/fume/gas/mist/vapours/spray.	
Precautionary s P261 P264	statements Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thouroughly after handling.	Hoffman Fine Hoffman Fine Chemicals Hoffman Fine Chemicals
Precautionary s P261 P264 P270	statements Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thouroughly after handling. Do not eat, drink or smoke when using this product.	Hofman Fine Chemicals
Precautionary s P261 P264 P270 P271	statements Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thouroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.	Hofman Fine Chemicals
Precautionary s P261 P264 P270 P271 P280	Statements Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thouroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at re	Horman Fine Chemicals
Precautionary s P261 P264 P270 P271 P280 P302 P352 P304 P340	Statements Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thouroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rebreathing.	en/face protection.
Precautionary s P261 P264 P270 P271 P280 P302 P352 P304 P340 P305 P351 P338	Statements Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thouroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rebreathing. IF IN EYES: Rinse cautiously with water for several mir present and easy to do. Continue rinsing.	on/face protection. st in a position comfortable nutes. Remove contact lens
Precautionary s P261 P264 P270 P271 P280 P302 P352 P304 P340	Statements Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thouroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rebreathing. IF IN EYES: Rinse cautiously with water for several mir	on/face protection. st in a position comfortable nutes. Remove contact lens
Precautionary s P261 P264 P270 P271 P280 P302 P352 P304 P340 P305 P351 P338 P312	Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thouroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at re- breathing. IF IN EYES: Rinse cautiously with water for several min- present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel	on/face protection. st in a position comfortable nutes. Remove contact lens unwell.
Precautionary s P261 P264 P270 P271 P280 P302 P352 P304 P340 P305 P351 P338 P312 P330	statements Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thouroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rebreathing. IF IN EYES: Rinse cautiously with water for several mirpresent and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel Rinse mouth.	on/face protection. st in a position comfortable nutes. Remove contact lens unwell.
Precautionary s P261 P264 P270 P271 P280 P302 P352 P304 P340 P305 P351 P338 P312 P330 P362	Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thouroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at re- breathing. IF IN EYES: Rinse cautiously with water for several min- present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel Rinse mouth. Take off contaminated clothing and wash before reuse.	on/face protection. st in a position comfortable nutes. Remove contact lens unwell.

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

No data available.

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Suitable extinguishing media

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

Unsuitable extinguishing media





Special hazards arising from the substance or mixture

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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 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 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 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:

No data available. No data available.

brown oil

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

- 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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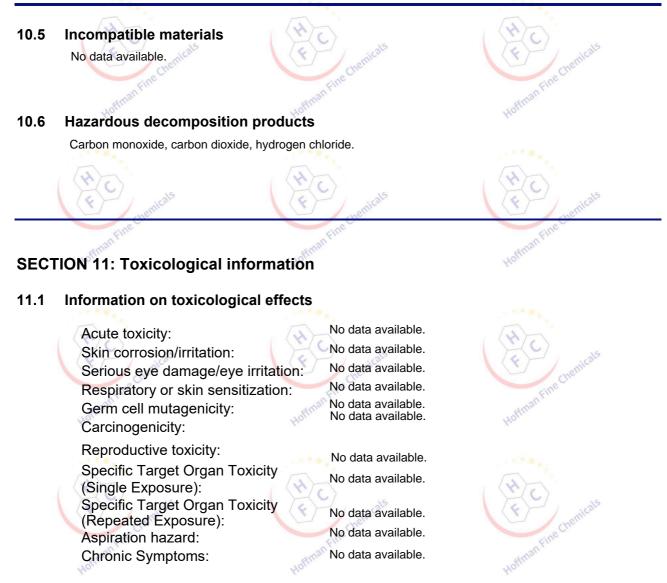






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11.2 Additional information

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

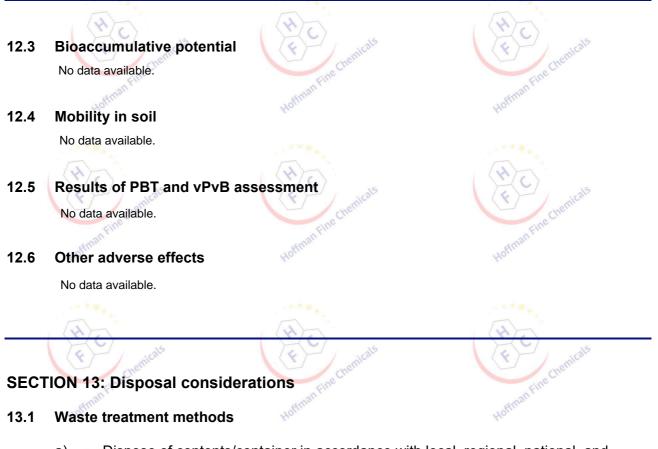
No data available.

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:

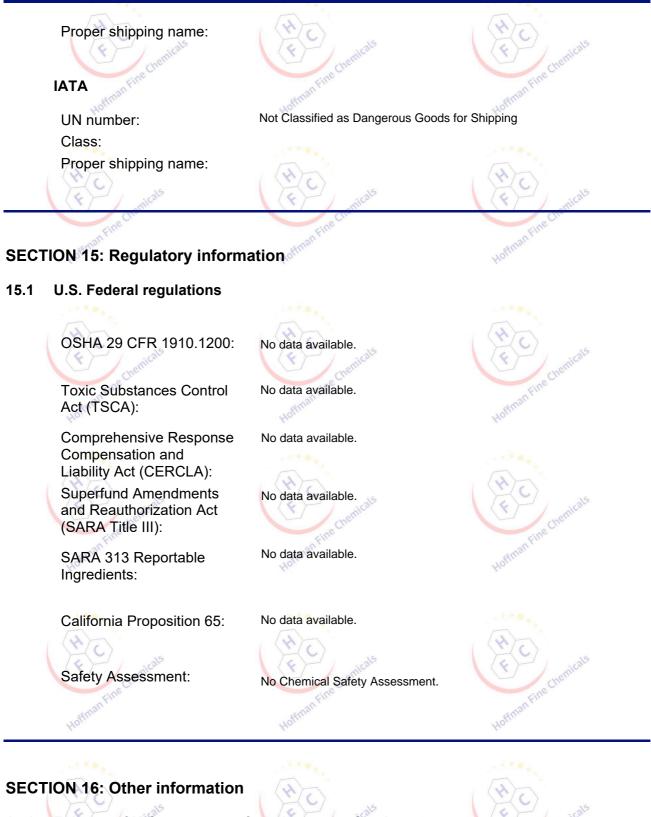
DOT (US) UN number: Class: Packing group: Proper shipping name: Reportable quantity (RQ): Poison inhalation hazard: IMDG UN number: Not Classified as Dangerous Goods for Shipping Class:

Not Classified as Dangerous Goods for Shipping

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

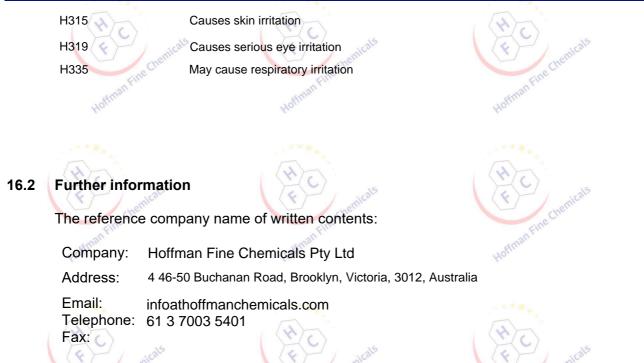
H302

Harmful if swallowed



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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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