SDS 1744 Calcium Carbide

Date of Issue/re-issue: 21/12/2018

Expiry: 01/01/2024

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name		ECP L	ECP Limited						
Address:			39 Woodside Ave, Northcote, Auckland , New Zealand						
Emergency Tel: 0800 243 622 or 0800 CHE M CA LL			Tel +64 9 480 4386			FAX +64 9 480 4385			
Product	Calcium Carb	oide			Code		1744		
CAS#	HSNO#	UN #	DG	Packing group #		Tracking?	Handlers		
			Class/es				Certificate?		
75-20-7	HSR001053	1402	4.3	I		4.3 A	4.3 A		

Recommended use: Laboratory Investigations

2. Hazards identification

2.1 GHS Classification

Substances and mixtures, which in contact with water, emit flammable gases (Category A) 2.2 GHS Label elements, including precautionary statements



Signal word Danger

Hazard statement(s)

H260 In contact with water releases flammable gases which may ignite spontaneously.

Precautionary statement(s)

Prevention

Pictogram

P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231 + P232 Handle under inert gas. Protect from moisture.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P335 + P334 Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Storage

P402 + P404 Store in a dry place. Store in a closed container.

P422 Store contents under inert gas.

Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards

None

3. Composition/information on ingredients

3.1 Substances Formula: C₂Ca Molecular Weight: 64.10 g/mol

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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. 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

Cough, shortness of breath, headache, nausea, vomiting.

4.3 Indication of any immediate medical attention and special treatment needed No data available

5. Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Dry powder
5.2 Special hazards arising from the substance or mixture
Calcium oxide
5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
5.4 Further information
No data available

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal. Do not flush with water. Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Reacts violently with water. Handle and store under inert gas.

7.3 Specific end use(s) No data available

8. Exposure controls/personal protection

8.1 Control parametersOccupational Exposure Limits Table8.2 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

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

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.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

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 full-face particle respirator type or 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.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties a) Appearance Form: Pieces b) Odour No data available c) Odour Threshold No data available d) pH 12.48 at 20 g/l e) Melting point/freezing point Melting point/range: 2,300 °C f) Initial boiling point and boiling range No data available g) Flash point No data available h) Evaporation rate No data available i) Flammability (solid, gas) The product is not flammable. - Flammability (solids) j) Upper/lower flammability or explosive limits

No data available k) Vapour pressure No data available I) Vapour density No data available m) Relative density 2.22 g/cm3 at 25 °C n) Water solubility No data available o) Partition coefficient: n-octanol/water No data available p) Auto-ignition temperature 390 °C q) Decomposition temperature No data available r) Viscosity No data available

10. Stability and reactivity

10.1 Reactivity
No data available
10.2 Chemical stability
No data available
10.3 Possibility of hazardous reactions
Reacts violently with water.
10.4 Conditions to avoid
Exposure to moisture.
10.5 Incompatible materials
Strong oxidizing agents. Reacts violently with water.
10.6 Hazardous decomposition products
No data available

11. Toxicological information

11.1 Information on toxicological effects Acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation Maximisation Test - guinea pig - Does not cause skin sensitisation. - OECD Test Guideline 406 Germ cell mutagenicity No data available 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 No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure

No data available Aspiration hazard No data available Potential health effects Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye burns. Signs and Symptoms of Exposure Cough, shortness of breath, headache, nausea, vomiting. Additional Information **RTECS: Not available**

12. Ecological information

12.1 Toxicity Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 50 mg/l - 96 h Method: OECD Test Guideline 203 Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 4.62 mg/l - 48 h Method: OECD Test Guideline 202 Toxicity to algae static test EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - 46 mg/l - 72 h Method: OECD Test Guideline 201 12.2 Persistence and degradability No data available 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB assessment No data available 12.6 Other adverse effects Toxic to aquatic life.

13. Disposal considerations

13.1 Waste treatment methods
Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.

14. Transport Information Table

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations		
14.1	UN Number	1402	1402	1402		
14.2	UN Proper Shipping	CALCIUM	CALCIUM CARBIDE	Calcium carbide		
	name	CARBIDE				
14.3	Transport Hazard	4.3	4.3	4.3		
	Class					
14.4	Packaging group	1	1	1		
14.5	Environmental	No	No	No		
	Hazards					
14.6	Special precautions	No data available				
	for user					

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture National regulatory information HSNO Approval Code: HSR001053 HSNO Group Standard Approval: Outside of Group Standard Tracking Required: 4.3A Approved Handler Cert.: 4.3A

16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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