WF Education Group - Safety Data Sheet

CA1844

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 20 April 2021
Date printed: 07 June 2021

Section 1. Identification

1.1 Product Identifier CA1844

Product Name CALCIUM CARBIDE tech. 500g.

CAS Number 75-20-7

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula CaC₂ =64.10

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier WF Education Group



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Battlefield Enterprise Park

Stafford Drive Shrewsbury Shropshire SY1 3FE

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1.4 Emergency Telephone (08:30-17:00) +44(0)1743 812200

(24hr) 112 (Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Contact with water > flam gas, category 1

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

Skin corrosion/irritation, category 2 spontaneously.

H315: Causes skin irritation.

Serious eye damage/irritation, category 1 H318: Causes serious eye damage. Spec target organ tox - single, category 3 H335: May cause respiratory irritation.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



Ref: CA1844



Hazard Statements In contact with water releases flammable gases which may ignite spontaneously. Causes skin irritation. Causes

serious eye damage. May cause respiratory irritation.

Precautionary Statements Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle under

inert gas. Protect from moisture. Wear protective gloves / protective clothing / eye protection / face protection. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. In case of fire: Evacuate area.

Do not breathe dust / fume / gas / mist / vapours / spray.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Calcium carbide	75-20-7	200-848-3		>80%	Water-react. 1,Skin Irrit. 2,Eye Dam. 1,STOT SE 3 (I)
Calcium oxide	1305-78-8	215-138-9		13%	Skin Irrit. 2,Eye Dam. 1,STOT SE 3 (I)
Silicon dioxide	68855-54- 9	231-545-4	01-2119379499-16-XXXX	2%	STOT RE 1

Section 4. First Aid

4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION URGENTLY.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.

OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. If conscious place in a sitting position. If there is difficulty in

breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation.

OBTAIN MEDICAL ATTENTION.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. OBTAIN MEDICAL ATTENTION

URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Dry chemical powder.

Unsuitable Media Do not allow water to come into direct contact with material.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Use approved personal protective equipment. Ensure no contact with water, acids or other aqueous solutions is

possible. Evacuate area immediately. Do not allow other people to enter area.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Minor Spillage Shovel/sweep up into container for removal

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with water, acids or other aqueous solutions.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place protected against moisture and water. Keep well protected from ingress of water and well separated from acids

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits				
			Long Term (8hr TWA)		Short Term 15min period)		
Calcium carbide	75-20-7	>80%	-	-	<u>-</u>	-	
Calcium oxide	1305-78-8	13%	-	-	2.0 ppm	-	
Silicon dioxide	68855-54-9	2%	-	-	-	-	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

Respiratory Protection Presents no significant inhalation health hazard.

Hand Protection Wear gloves.

Skin Protection Avoid contact with skin.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Sharp irregular, light grey to near black, rock-like solid.

Odour Characteristic-garlic type odour. pH 12.48 @20°C (1% Solution)

Boiling Point Not available
Melting Point 2300 °C
Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable

Explosive Properties No. Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 2.2200

Water Solubility Reacts violently with water evolving a flammable gas which may explode or catch fire.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions but decomposes violently in contact with water.

10.3 Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid Avoid contact with water or water vapour.

10.5 Incompatable Materials Contact with water or aqueous solutions evolves highly flammable acetylene gas.

10.6 Hazardous Decomposition Decomposes to form flammable acetylene and very toxic and highly flammable phosphine gas.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Can cause severe burns or blindness on contact with the eyes and fumes from burning material are highly

irritating.

Skin Direct contact with moisture on the skin causes severe thermal and caustic burns.

LD50 Skin Not available

Ingestion Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus.

LD50 Oral Not available

Inhalation Fumes from burning material are highly irritating to the upper respiratory tract.

LD50 Inhalation Not available
TCLo Not available

Carcinogenicity No information is available.

Mutagenicity No information is available.

Reproductive Effects No information is available.

Section 12. Ecological

12.1 Toxicity Small amounts present no specific environmental hazard.

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available

12.2 Persistence and degradability No data available.

degradaemity

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

12.5 Results of PBT & vPvB Assessment not required.

assessment

12.6 Other adverse effects

None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Small amounts may be carefully decomposed in a large excess of water.

Contaminated Packaging Very carefully wash out containers with water. Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number 1402

14.2 Proper Shipping Name Calcium carbide

14.3 Transport classes

UN classification 4.3
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 423
Tunnel Restriction Code D/E

14.4 Packing Group II

14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

usei

14.7 Transport in bulk Not transported in bulk.



Section 15. Regulatory Information

$15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Contact with water & category 1; Skin corrosion/irritation, category 2; Serious eye

damage/irritation, category 1; Spec target organ tox - single, category 3

Signal word Danger

Hazard Pictograms







Hazard Statements H260, H315, H318, H335

In contact with water releases flammable gases which may ignite spontaneously. Causes skin irritation. Causes

serious eye damage. May cause respiratory irritation.

Precautionary Statements P223, P231+P232, P280, P335+P334, P370+P380, P260

Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle under inert gas. Protect from moisture. Wear protective gloves / protective clothing / eye protection / face protection. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. In case of fire: Evacuate area.

Do not breathe dust / fume / gas / mist / vapours / spray.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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