Calcium Carbide, Lump



Section 1

Product Description

Product Name: Calcium Carbide, Lump
Recommended Use: Science education applications

Synonyms: Acetylenogen, Carbide

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



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

GHS Classification:

Substance or mixture which in contact with water emits flammable gas Category 1

Other Safety Precautions: May cause eye irritation.

May cause gastrointestinal discomfort.

May cause irritation to skin.

May cause irritation to respiratory tract.

Section 3

Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Calcium Carbide, Lump
 75-20-7
 100

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact: Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5

Firefighting Procedures

Extinguishing Media: Use dry chemical or cover with dry sand or lime.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Reacts violently with water, liberating extremely flammable gases. Never add water to

this product. Above flashpoint, explosive vapor-air mixtures may be formed.

Hazardous Combustion Products: Calcium Oxides

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Avoid the generation of dusts during clean-up. Avoid breathing dust/fume/gas/mist/vapors/spray.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Do not flush spill to drain.

Section 7

Handling and Storage

Handling: 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. Risk of explosion by shock, friction, fire or other sources of ignition. Do not use copper ground strap or cable. Keep away from combustible material. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Keep away from ... (incompatible materials to be indicated by the manufacturer). Keep container dry. Keep away from sources of ignition - No smoking. Never add water to this

Store in a dry place. Store in a closed container. Keep container tightly closed in a cool, well-ventilated place. Storage:

Storage Code: Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

Section 8 Protection Information

ACGIH **OSHA PEL** Chemical Name (TWA) (STEL) (TWA) (STEL) No data available N/A N/A N/A N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use. Wear a NIOSH

approved respirator if levels above the exposure limits are possible.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where use can result in skin contact, practice good personal hygiene. Inspect gloves for chemical break-through and replace at regular

intervals. Clean protective equipment regularly.

Gloves: Nitrile

Section 9

Physical Data

Formula: CaC2/CaO Vapor Pressure: N/A

Molecular Weight: 64.1 Evaporation Rate (BuAc=1): N/A Appearance: Grev Solid Vapor Density (Air=1): N/A Specific Gravity: 2.22 at 20 °C Odor: No data available

Odor Threshold: No data available Solubility in Water: Soluble Log Pow (calculated): No data available pH: No data available

Melting Point: No data available 2300 C Autoignition Temperature: No data available Boiling Point: No data available **Decomposition Temperature:** No data available

Flash Point: No data available Viscosity: No data available Flammable Limits in Air: Acetylene gas LEL: 2.5% UEL: 100% Percent Volatile by Volume: N/A

Section 10

Reactivity Data

Reactivity: Highly reactive - See below

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Exposure to moisture Contact with water liberates highly flammable gases

Hazardous Decomposition Products: Calcium Oxides
Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry N/A

Symptoms (Acute): Respiratory disorders, , Eye disorders

Delayed Effects: No data available

Acute Toxicity:

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50No data available75-20-7Not determinedNot determinedNot determined

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHANo data available75-20-7Not listedNot listedNot listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: N/A

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology. Keep out of waterways.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical Name CAS Number Eco Toxicity

N/A 75-20-7

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

UN number: 1402 Class: 4.3 Packing group: II Proper shipping UN number: 1402 Class: 4.3 Packing group: II Proper shipping

name: Calcium carbide name: Calcium carbide

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

Calcium Carbide, Lump 75-20-7 No 10 lb RQ 10 lb final RQ; No No

4.54 kg final

RQ

California Prop 65: No California Proposition 65 ingredients

Section 16	Additional
	Information

Revised: 08/21/2018 Replaces: 06/15/2018 Printed: 08-25-2018

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary	
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ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health