

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name	Calcium Carbide
CAS number	75-20-7
Synonyms	Calcium Acetylide, Phenyl Glyceryl Ether Diacetate

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Ripening agent, deoxidizing agent, PVC manufacturing, steel industry
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#### 1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

#### 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable gases:	Category 1
Skin irritation:	Category 2
Specific target organ toxicity following single exposure:	Category 3
Serious eye damage:	Category 1
Aquatic acute toxicity:	Category 2

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

In contact with water releases flammable gases which ignite spontaneously. Cause skin irritation. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Toxic to aquatic life.

Precautionary statements:

If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle under inert gas. Protect from moisture. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see supplemental first aid instructions on this label). If skin irritation occurs: Get medical advice/attention. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. Take off contaminated clothing and wash before reuse. In case of fire: Use agents recommended in section 5 for extinction. Store in a dry place. Store in a closed container. Store in a well ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and container as instructed in Section 13.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS



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## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Calcium carbide	Calcium acetylide	75-20-7	>90%

## SECTION 4: First aid measures

## 4.1 Description of first-aid measures

### General advice

<b>If inhaled</b>	Seek medical attention. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Loosen clothing and place exposed in a comfortable position.
<b>In case of skin contact</b>	Wash hands and exposed skin with soap and plenty of water. Seek medical attention if irritation persists or if concerned.
<b>In case of eye contact</b>	Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Seek medical attention if irritation persists or concerned.
<b>If swallowed</b>	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Dilute with water or milk. Seek medical attention.

## 4.2 Most important symptoms and effects, both acute and delayed

Irritation. Shortness of breath. Headache. Nausea. Dizziness. Inhalation - May cause respiratory irritation.

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

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Dry powder.
<b>Unsuitable extinguishing media</b>	No information available.

### 5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. Reacts violently with water. Contact with moisture to form flammable acetylene gas. Contact with acid or acid fumes evolves heat and flammable vapors.

### 5.3 Special protective equipment and precautions for firefighters

Wear protective eyewear, gloves, and clothing. Refer to Section 8.

### 5.4 Further information

<b>Flash Point</b>	No information available.
<b>Autoignition Temperature</b>	No information available.

## Explosion limits

Upper

No data available.

Lower

No data available.

Sensitivity to Mechanical Impact

No information available.

Sensitivity to Static Discharge

No information available.

NFPA

Health	Flammability	Instability	Physical hazards
2	3	1	1

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Ensure that air-handling systems are operational.

### 6.2 Environmental precautions

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

### 6.3 Methods and materials for containment and cleaning up

Wear protective eyewear, gloves, and clothing. Refer to Section 8. Always obey local regulations.

If necessary use trained response staff or contractor. Evacuate personnel to safe area.

Containerise for disposal. Refer to Section 13. Keep in suitable closed containers for disposal.

### 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Precautions on safe handling

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances.

#### Hygiene measures

No information available.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible.

#### Incompatibilities

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

#### **US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

No information available.

#### **US. ACGIH Threshold Limit Values**

No information available.

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

No information available.

#### **Biological occupational exposure limits**

No information available.

### 8.2 Exposure controls

#### **Appropriate engineering controls**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits - OELs) indicated above.

#### **Personal protective equipment**

##### **Eye/face protection**

Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU). Face shield and safety glasses are appropriate eye protection.

##### **Skin and body protection**

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper gloves removal technique without touching outer surface. Avoid skin contact with use gloves. Wear protective clothing.

##### **Respiratory protection**

Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

##### **Control of environmental exposure**

No additional information available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State	Fragments
Appearance	Black-gray solid
Odor	Garlic-like
Odor Threshold	No information available
pH	12.48 at 20 g/l
Melting Point/Range	2,300 °C
Boiling Point/Range	No information available
Evaporation Rate	No information available
Flammability (solid)	No information available
Flammability or explosive limit	
Upper	No data available.
Lower	No data available.
Vapor Pressure	No information available.
Vapor Density	No information available.
Density	2.22 g/cm <sup>3</sup> at 25 °C
Solubility	No information available.
Partition coefficient; n-octanol/water	No information available.
Autoignition Temp	390 °C
Decomposition Temp	No information available.
Viscosity	No information available.
Molecular Formula	No information available.
Molecular Weight	No information available.
VOC Content(%)	No information available.
Oxidizing properties	No information available.

### 9.2 Other safety information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reacts vigorously with water or form highly flammable acetylene gas, which may ignite spontaneously.

### 10.2 Chemical stability

Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

Lime may also be formed raising the pH of the solution and causing a white precipitate. Reacts violently with water.

### 10.4 Conditions to avoid

Exposure to moisture. Incompatible materials.

## 10.5 Incompatible materials

Strong oxidizing agents. Reacts violently with water.

## 10.6 Hazardous decomposition products

Calcium oxide.

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

### Product Information, Component Information

#### Acute toxicity

No additional information.

#### Skin corrosion/irritation

No additional information.

#### Serious eye damage/eye irritation

No additional information.

#### Respiratory or skin sensitization

No additional information.

#### Germ cell mutagenicity

No additional information.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Calcium Carbide	75-20-7	Not listed	Not listed	Not listed	Not listed	Not listed

#### Specific target organ toxicity - single exposure

Inhalation - May cause respiratory.

#### Specific target organ toxicity - repeated exposure

No additional information.

#### Reproductive toxicity

No additional information.

#### Chronic effects

No additional information.

## 11.2 Additional Information

No additional information.

# SECTION 12: Ecological information

## 12.1 Toxicity

Product		Species	Test Results
Calcium Carbide	75-20-7	Oncorhynchus mykiss (rainbow trout)	LC50 - >50 mg/l - 96 h
	75-20-7	Daphnia magna (Water flea)	EC50 - 4.62 mg/l - 48 h
	75-20-7	Desmodesmus subspicatus	EC50 - 46 mg/l - 72 h

## 12.2 Persistence and degradability

No information available.

## 12.3 Bio accumulative potential

No information available.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Endocrine disrupting properties

No information available.

## 12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste Disposal Methods

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra in igniting as this material is highly flammable. Contact a licensed professional waste disposal service to dispose of this material. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14: Transport information

### DOT (US)

UN Number	UN1402
Proper Shipping Name	CALCUM CARBIDE
Hazard Class	4.3
Packing Group	I

### IMDG

UN Number	UN1402
Proper Shipping Name	CALCIUM CARBIDE
Hazard Class	4.3



<b>Packing Group</b>	I
<b>IATA</b>	
<b>UN Number</b>	UN1402
<b>Proper Shipping Name</b>	CALCIUM CARBIDE
<b>Hazard Class</b>	4.3
<b>Packing Group</b>	I

## SECTION 15: Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Listed (Calcium Carbide)

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Listed (Calcium Carbide) (10 lbs)

**SARA 304 Emergency release notification**

Not regulated

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not regulated.

**SARA 311/312 Hazardous**

Listed. Reactive, Acute.

**SARA 313 (TRI reporting)**

Not regulated

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act**

Not regulated

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed

**US state regulations**

**US. Massachusetts RTK - Substance List**

Not listed

**US. New Jersey Worker and Community Right-to-Know Act**

Not listed

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed

**California Proposition 65**

Not listed

**SECTION 16: Other information**

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Revision: 0

**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.