

**LIGHTNING**  
 PRODUCT CODE: ICS-173  
 MATERIAL SAFETY DATA SHEET



**SAFETY DATA SHEET**

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System. THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD) IMPORTANT: Read this SDS before handling & disposing of this product. Pass this information on to employees, customers, & users of this product.

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER**

|                   |                                |
|-------------------|--------------------------------|
| PRODUCT IDENTITY: | Lightning                      |
| NEW MSDS DATE:    | 01/30/2010                     |
| COMPANY IDENTITY: | C.A.R. PRODUCTS INC.           |
| COMPANY ADDRESS:  | 630 Beaulieu St.               |
| COMPANY CITY:     | Holyoke, MA 01040              |
| COMPANY PHONE:    | 1-800-537-7797                 |
| EMERGENCY PHONES: | CHEMTREC: 1-800-424-9300 (USA) |

**SECTION 2. HAZARDS IDENTIFICATION**

**CAUTION**

**RISK STATEMENTS:**

Causes burns.  
 Irritating to eyes and skin.

**SAFETY STATEMENTS:**

Keep locked up and out of the reach of children.  
 Avoid contact with skin and eyes.  
 Wear suitable protective clothing and gloves.  
 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 In case of accident, or if you feel unwell, seek medical advice immediately. (Show the label where possible).

SEE SECTION 11 FOR OTHER TOXICOLOGICAL INFORMATION (ACUTE & CHRONIC HAZARDS)

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

| <u>MATERIAL</u>         | <u>CAS#</u> | <u>EINECS#</u> | <u>WT%</u> | <u>TWA (OSHA)</u> | <u>TLV (ACGIH)</u> |
|-------------------------|-------------|----------------|------------|-------------------|--------------------|
| Nonhazardous components | -           | -              | 85-95      | None Known        | None Known         |
| Sodium Hydroxide*       | 1310-73-2   | 215-185-5      | 10-15      | None Known        | None Known         |

| <u>MATERIAL</u>   | <u>CAS#</u> | <u>EINECS#</u> | <u>CEILING</u> | <u>STEL(OSHA/ACGIH)</u> | <u>HAP</u> |
|-------------------|-------------|----------------|----------------|-------------------------|------------|
| Sodium Hydroxide* | 1310-73-2   | 215-185-5      | 2 ppm          | None Known              | No         |

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

## SECTION 4. FIRST AID MEASURES

### EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

### SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing.

Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

### INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR).

### SWALLOWING:

Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting.

GET MEDICAL ATTENTION IMMEDIATELY. Do NOT give liquids to an unconscious or convulsing person.

## SECTION 5. FIRE FIGHTING MEASURES

### FIRE & EXPLOSION PREVENTIVE MEASURES

#### EXTINGUISHING MEDIA

Use dry powder, In case of fire in surroundings, all extinguishing agents allowed.

#### SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.

Do not enter confined fire-space without full bunker gear.

(Helmet with face shield, bunker coats, gloves & rubber boots).

Use NIOSH approved positive-pressure self-contained breathing apparatus.

#### UNUSUAL EXPLOSION AND FIRE PROCEDURES

Noncombustible.

Closed containers may explode if exposed to extreme heat.

Applying to hot surfaces requires special precautions.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PROTECTIVE MEASURES:

Keep unprotected personnel away.

Use complete chemical protective suit with self-contained breathing apparatus.

### ENVIRONMENTAL PRECAUTIONS:

Keep from entering storm sewers and ditches which lead to waterways.

### CONTAINMENT AND CLEAN-UP MEASURES:

Stop spill at source. Dike and contain.

Sweep spilled material into dry, sealable containers.

Wash away remainder with plenty of water.

## SECTION 7. HANDLING AND STORAGE

### HANDLING

Use only with adequate ventilation.

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

### STORAGE

Keep separated from strong oxidants, strong acids, metals, food & feedstuffs.

Keep dry. Do not store above 49 C/120 F. Keep container tightly closed & upright when not in use to prevent leakage.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### RESPIRATORY EXPOSURE CONTROLS

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

### VENTILATION

|                              |            |                 |      |
|------------------------------|------------|-----------------|------|
| <i>LOCAL EXHAUST:</i>        | Necessary  | <i>SPECIAL:</i> | None |
| <i>MECHANICAL (GENERAL):</i> | Acceptable | <i>OTHER:</i>   | None |

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

### PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

### WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers.  
Wash at end of each work shift & before eating, smoking or using the toilet.  
Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

## SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

|  |                                       |
|--|---------------------------------------|
| APPEARANCE:                                      | Liquid, Red                           |
| ODOR:  | Fresh Fragrance                       |
| ODOR THRESHOLD:                                  | Not Available                         |
| pH (Neutrality):                                 | 11.60                                 |
| MELTING POINT/FREEZING POINT:                    | Not Available                         |
| BOILING RANGE (IBP, Dry Point):                  | 100 100* C / 212 212* F (*=End Point) |
| FLASH POINT (TEST METHOD):                       | Not Applicable                        |
| EVAPORATION RATE (n-BUTYL ACETATE=1):            | Not Applicable                        |
| FLAMMABILITY CLASSIFICATION:                     | Non-Combustible                       |
| LOWER FLAMMABLE LIMIT IN AIR (% by vol):         | Not Applicable                        |
| UPPER FLAMMABLE LIMIT IN AIR (% by vol):         | Not Available                         |
| VAPOR PRESSURE (mm of Hg)@20 C                   | 17.5                                  |
| VAPOR DENSITY (air=1):                           | 0.67                                  |
| GRAVITY @ 68/68 F / 20/20 C:                     |                                       |
| SPECIFIC GRAVITY (Water=1):                      | 1.093                                 |
| POUNDS/GALLON:                                   | 9.105                                 |
| WATER SOLUBILITY:                                | Complete                              |
| PARTITION COEFFICIENT (n-Octane/Water):          | Not Available                         |
| AUTO IGNITION TEMPERATURE:                       | Not Applicable                        |
| DECOMPOSITION TEMPERATURE:                       | Not Available                         |
| VOC'S (>0.44 Lbs/Sq In) :                        | 0.0 Vol% /0.0 g/L / 0.000 Lbs/Gal     |
| TOTAL VOC'S (TVOC):                              | 0.0 Vol% /0.0 g/L / 0.000 Lbs/Gal     |
| NONEXEMPT VOC'S (CVOC):                          | 0.0 Vol% /0.0 g/L / 0.000 Lbs/Gal     |
| HAZARDOUS AIR POLLUTANTS (HAPS):                 | 0.0 Wt% /0.0 g/L / 0.000 Lbs/Gal      |
| NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C) | 0.0                                   |

## SECTION 10. STABILITY & REACTIVITY

### STABILITY

Stable under normal conditions.

### CONDITIONS TO AVOID

Isolate from incompatible materials.

### MATERIALS TO AVOID

Reacts violently with fire extinguishers containing water.  
The substance is a strong base, reacts violently with acids and is corrosive.  
Reacts with water generating sufficient heat to ignite combustible materials.  
Reacts violently with strong acids, causing fire & explosion hazard. Attacks many plastics, rubber, coatings, many metals,  
such as aluminum, zinc, tin, & lead, forming flammable/explosive gas (hydrogen).  
Reacts with ammonium salts to produce ammonia & causing fire hazard.  
Rapidly absorbs carbon dioxide & water from the air.  
Contact with moisture will generate heat.

### HAZARDOUS DECOMPOSITION PRODUCTS

Sodium Oxide & Hydroxide, Carbon Oxides from extreme heating.

### HAZARDOUS POLYMERIZATION

Will not occur.

## SECTION 11. TOXICOLOGICAL INFORMATION

### *ACUTE HAZARDS*

#### **EYE & SKIN CONTACT:**

Primary irritation to skin, defatting, dermatitis.  
Primary irritation to eyes, redness, tearing, blurred vision.  
Liquid can cause eye irritation. Wash thoroughly after handling.

#### **INHALATION:**

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful. The applicable occupational exposure limit value should not be exceeded during any part of the working exposure.

#### **SWALLOWING:**

Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

### *SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED*

#### **CONDITIONS AGGRAVATED:**

None Known.

### *CHRONIC HAZARDS*

#### **CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:**

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.

### *MAMMALIAN TOXICITY INFORMATION*

No mammalian information is available on this product.

## SECTION 12. ECOLOGICAL INFORMATION

#### **AQUATIC ANIMAL INFORMATION:**

No aquatic environmental information is available on this product. The substance may be hazardous in the environment. Special attention should be given to water organisms.

#### **MOBILITY IN SOIL**

Mobility of this material has not been determined.

#### **DEGRADABILITY**

This product is completely biodegradable.

#### **ACCUMULATION**

Bioaccumulation of this product has not been determined.

#### **WORK & HYGIENIC PRACTICES:**

Provide readily accessible eye wash stations & safety showers.  
Wash at end of each work shift & before eating, smoking or using the toilet.  
Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

## SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste management options. Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If in doubt, contact appropriate agencies.

## SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING NAME: NA1760, Compounds, cleaning liquid, (Sodium Hydroxide), 8, PG-II

DRUM LABEL: (Corrosive)

IATA / ICAO: UN1760, Corrosive liquids, n.o.s.  
(contains: Sodium Hydroxide), 8, PG-II

IMO / IMDG: UN1760, Corrosive liquids, n.o.s.  
(contains: Sodium Hydroxide), 8, PG-II

EMERGENCY RESPONSE GUIDEBOOK NUMBER: 154

## SECTION 15. REGULATORY INFORMATION

### EPA REGULATION:

**SARA SECTION 311/312 HAZARDS:** Acute Health

All components of this product are on the TSCA list.

**SARA Title III Section 313 Supplier Notification**

This product contains the indicated <\*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

| <u>SARA TITLE III INGREDIENTS</u> | <u>CAS#</u> | <u>EINECS#</u> | <u>WT%</u> | <u>(REG.SECTION)</u> | <u>RQ(LBS)</u> |
|-----------------------------------|-------------|----------------|------------|----------------------|----------------|
| Sodium Hydroxide*                 | 1310-73-2   | 215-185-5      | 10-15      | (311,312)            | 1000           |

### > 5533 LB / 2515 KG OF THIS PRODUCT IN 1 CONTAINER EXCEEDS THE "RQ" OF SODIUM HYDROXIDE\*

Any release equal to or exceeding the RQ must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively.

Failure to report may result in substantial civil and criminal penalties.

State & local regulations may be more restrictive than federal regulations.

### STATE REGULATIONS:

**CALIFORNIA PROPOSITION 65:** This product contains no chemicals known to the State of California to cause cancer & reproductive toxicity.

### INTERNATIONAL REGULATIONS

The components of this product are listed on the chemical inventories of the following countries:

Australia, Canada, China, Europe (EINECS), Japan, Korea, United Kingdom.

### CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

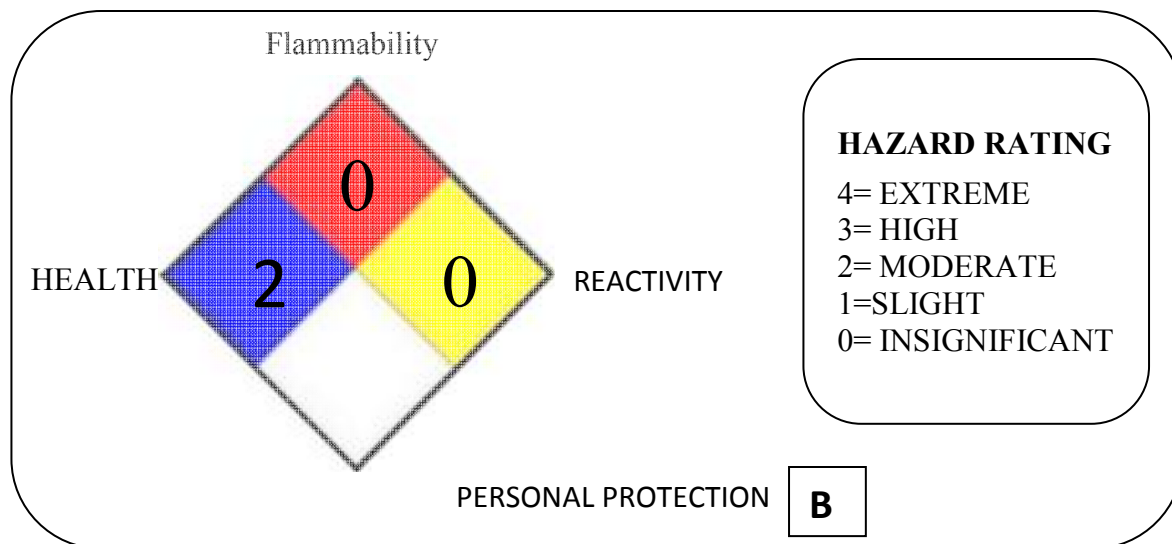
D2B: Irritating to skin / eyes.

## SECTION 16. OTHER INFORMATION

### HAZARD RATINGS:

HEALTH (NFPA): 1, HEALTH (HMIS): 2, FLAMMABILITY: 0, REACTIVITY: 0  
(Personal Protection Rating to be supplied by user based on use conditions.)  
This information is intended solely for the use of individuals  
trained in the NFPA & HMIS hazard rating systems.

### *Hazardous Materials Identification System (HMIS)*



### EMPLOYEE TRAINING

See Section 2 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

### NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.

Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

Unless updated, the Safety Data Sheet is valid until 01/30/2013.