

# "DIAMOND" GLASS CLEANER CONCENTRATE

PRODUCT CODE: ICS-560  
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: Diamond Glass Cleaner Concentrate  
NEW MSDS DATE: 3/15/2012 Supercedes 02/01/2010  
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

**DANGER!!**

### RISK STATEMENTS:

Harmful by inhalation and if swallowed.  
Irritating to eyes, respiratory system and skin.  
Combustible (North America), Flammable (elsewhere)  
Very toxic to aquatic organisms.  
Vapors may cause drowsiness and dizziness.

### SAFETY STATEMENTS:

Avoid contact with skin and eyes.  
Wear suitable protective clothing, gloves and eye/face protection.  
Keep container tightly closed.  
Keep away from sources of ignition. No smoking.  
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).  
If swallowed, seek medical advice immediately, and show this container or label.  
Avoid release to the environment. Refer to special instructions/safety data sheet.

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

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>MATERIAL</u> <u>(ACGIH)</u>	<u>CAS#</u>	<u>EINECS#</u>	<u>WT%</u>	<u>TWA (OSHA)</u>	<u>TLV</u>
Nonhazardous components	-	-	> 80	None Known	None Known
Isopropanol	67-63-0	200-661-7	< 20	400 ppm	200 ppm A4

<u>MATERIAL</u>	<u>CAS#</u>	<u>EINECS#</u>	<u>CEILING</u>	<u>STEL(OSHA/ACGIH)</u>	<u>HAP</u>
Isopropanol	67-63-0	200-661-7	None Known	400 ppm	No

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

## **SECTION 4. FIRST AID MEASURES**

**IN ALL CASES CONSULT A PHYSICIAN!**

### **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).

CALL A PHYSICIAN immediately!

### **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**

NO open flames, NO sparks, & NO smoking. Above flash point, use a closed system, ventilation, explosion-proof electrical equipment, lighting.

### **EXTINGUISHING MEDIA**

Use dry powder, alcohol-resistant foam, water spray, water in large amounts, carbon dioxide.

### **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**

#### **COMBUSTIBLE!!**

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

Closed containers may explode if exposed to extreme heat.

Applying to hot surfaces requires special precautions.

Empty container very hazardous! Continue all label precautions!

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **PERSONAL PROTECTIVE MEASURES:**

EVACUATE DANGER AREA! Consult an expert!

Vapors may ignite explosively & spread long distances. Prevent vapor buildup.

Keep unprotected personnel away. Ventilate spill area. Remove all ignition sources.

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

### **ENVIRONMENTAL PRECAUTIONS:**

Do NOT let this chemical enter the environment.

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

### **CONTAINMENT AND CLEAN-UP MEASURES:**

Stop spill at source. Dike and contain.

Cautiously neutralize spilled liquid with a dilute acid, such as dilute sulfuric acid.

Collect leaking liquid in sealable containers.

Absorb remaining liquid in sand or inert absorbent.

## SECTION 7. HANDLING AND STORAGE

### HANDLING

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

Use only with adequate ventilation. Avoid breathing of vapor or spray mist.

Do not get in eyes, on skin or clothing.

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

Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container very hazardous! Continue all label precautions!

To minimize static discharge when transferring, ensure electrical continuity

by bonding and grounding all equipment. Use an inlet line diameter of at

least 3.5 inches (8.9 centimeters) with a maximum flow rate of 1 meter/second.

### STORAGE

Keep in fireproof surroundings. Keep separated from strong oxidants,

food & feedstuffs. Keep cool. Keep inside a well-ventilated room.

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

LOCAL EXHAUST: Necessary

MECHANICAL (GENERAL): Acceptable

SPECIAL: None

OTHER: 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, Blue
ODOR:	Fresh Fragrance
ODOR THRESHOLD:	Not Available
pH (Neutrality):	8.73
MELTING POINT/FREEZING POINT:	Not Available
BOILING RANGE (IBP, Dry Point):	80 172* C / 177 342* F (*=End Point)
FLASH POINT (TEST METHOD):	> 29.45 C / > 85 F (TCC)
EVAPORATION RATE (n-BUTYL ACETATE=1):	Not Applicable
FLAMMABILITY CLASSIFICATION:	Class I B
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	Not Available
UPPER FLAMMABLE LIMIT IN AIR (% by vol):	Not Available
VAPOR PRESSURE (mm of Hg)@20 C	18.1
VAPOR DENSITY (air=1):	0.69
GRAVITY @ 68/68 F / 20/20 C:	
SPECIFIC GRAVITY (Water=1):	0.96
POUNDS/GALLON:	8.00
WATER SOLUBILITY:	Complete
PARTITION COEFFICIENT (n-Octane/Water):	Not Available
AUTO IGNITION TEMPERATURE:	398 C / 750 F
DECOMPOSITION TEMPERATURE:	Not Available
REFRACTIVE INDEX:	1.336
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 oxidizers, heat, sparks, electric equipment & open flame.

### MATERIALS TO AVOID

Reacts with strong oxidants, causing fire & explosion hazard. Attacks

### HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide, Carbon Dioxide,

Nitrogen Oxide vapors from burning.

### HAZARDOUS POLYMERIZATION

Will not occur.

## SECTION 11. TOXICOLOGICAL INFORMATION

### *ACUTE HAZARDS*

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

Primary irritation to skin, defatting, dermatitis.  
This product may cause allergic skin reaction.  
Absorption thru skin increases exposure.  
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. Breathing vapor can cause irritation.  
Acute overexposure can cause harm to kidneys, blood, nerves, liver, lungs.

#### **SWALLOWING:**

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

### *SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED*

#### **CONDITIONS AGGRAVATED**

Chronic overexposure can cause harm to kidneys, blood, nerves, liver, lungs.  
Persons with severe skin, liver or kidney problems should avoid use.

### *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%.  
Absorption thru skin may be harmful.

### **MAMMALIAN TOXICITY INFORMATION**

No mammalian information is available on this product.

## SECTION 12. ECOLOGICAL INFORMATION

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

The most sensitive known aquatic group to any component of this product is: Daphnia Pulex 2.4 ppm or mg/L (48 hour exposure).  
Keep out of sewers and natural water supplies.  
The substance is very toxic to aquatic organisms.

#### **MOBILITY IN SOIL**

This material is a mobile liquid.

#### **DEGRADABILITY**

This product is completely biodegradable.

#### **ACCUMULATION**

Bioaccumulation of this product has not been determined.

## 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: UN 1219, Isopropanol, 3, PG-II  
DRUM LABEL: (Flammable liquid)  
IATA / ICAO: UN 1219, Isopropanol, 3, PG-II  
IMO / IMDG: UN 1219, Isopropanol, 3, PG-II  
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 129

## SECTION 15. REGULATORY INFORMATION

### EPA REGULATION:

**SARA SECTION 311/312 HAZARDS:** Acute Health, Chronic Health, Fire

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.

### STATE REGULATIONS:

**THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMILAR 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)**

B2: Flammable Liquid.

D2B: Irritating to skin / eyes.

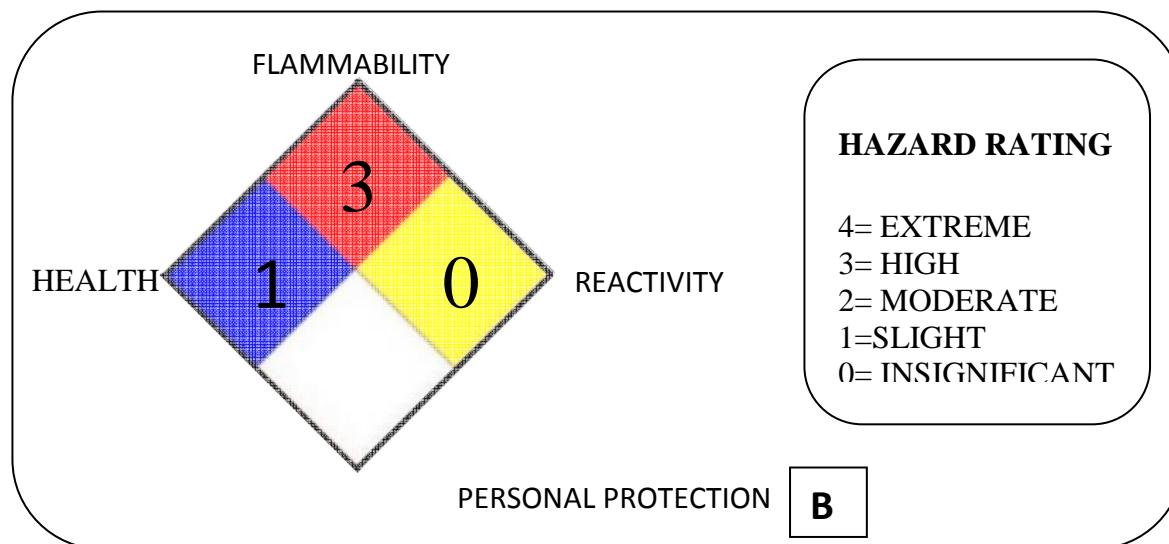
## SECTION 16. OTHER INFORMATION

### HAZARD RATINGS:

HEALTH (NFPA): 2, HEALTH (HMIS): 1, FLAMMABILITY: 2, 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.

## SECTION 16. OTHER INFORMATION (CONTINUED)

### 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 02/01/2013.