

**BUG OFF**  
PRODUCT CODE: ICS-535  
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:	Bug Off
NEW MSDS DATE:	01/31/2010
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:**

Irritating to eyes and skin.

**SAFETY STATEMENTS:**

Avoid contact with skin and eyes.

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

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

<u>MATERIAL</u>	<u>CAS#</u>	<u>EINECS#</u>	<u>WT%</u>	<u>TWA (OSHA)</u>	<u>TLV (ACGIH)</u>
Nonhazardous Components	-	-	95-98	None Known	None Known
2-Butoxyethanol	111-76-2	203-905-0	0 - 5	50 ppm S	20 ppm S

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

## **SECTION 5. FIRE FIGHTING MEASURES**

### **FIRE & EXPLOSION PREVENTIVE MEASURES**

Not Applicable.

### **EXTINGUISHING MEDIA**

Use appropriate extinguishing media for surrounding fire.

### **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.

Wear appropriate personal protective equipment given in Section 8.

### **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.

Collect leaking & spilled liquid in sealable containers as far as possible.

## **SECTION 7. HANDLING AND STORAGE**

### **HANDLING**

Use only with adequate ventilation.

Avoid prolonged or repeated

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

### **STORAGE**

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, Clear
ODOR:	Bland
ODOR THRESHOLD:	Not Available
pH (Neutrality):	11.52
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):	1.013
POUNDS/GALLON:	8.438
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

Contact with incompatible materials.

### MATERIALS TO AVOID

Isolate from strong acids, strong oxidizers, reactive metals.

### HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Oxides, Sodium Oxide & Hydroxide 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.

#### **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*

<u>MATERIAL</u>	<u>CAS#</u>	<u>EINECS#</u>	<u>LOWEST KNOWN LETHAL DOSE</u>
<u>DATA</u>			LOWEST KNOWN LD50 (ORAL)
Ethylene Glycol Butyl Ether	111-76-2	203-905-0	320.0 mg/kg(Rabbits)
Ethylene Glycol Butyl Ether	111-76-2	203-905-0	LOWEST KNOWN LC50 (VAPORS) 700 ppm (Mice)

## SECTION 12. ECOLOGICAL INFORMATION

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

No aquatic environmental information is available on this product.

#### **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.

## 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: None

DRUM LABEL: None

IATA / ICAO: None

IMO / IMDG: None

EMERGENCY RESPONSE GUIDEBOOK NUMBER: None

## 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.

## SECTION 15. REGULATORY INFORMATION (CONTINUED)

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<u>SARA TITLE III INGREDIENTS</u> <u>RO(LBS)</u>	<u>CAS#</u>	<u>EINECS#</u>	<u>WT%</u>	<u>(REG.SECTIO</u>
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*2-Butoxyethanol	111-76-2	203-905-0	0- 5	(313)	None
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### 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): 1, 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)*

		0		
HEALTH	1	0	REACTIVITY	
PERSONAL PROTECTION				<b>A</b>

**HAZARD RATING**  
4= EXTREME  
3= HIGH  
2= MODERATE  
1=SLIGHT  
0= INSIGNIFICANT

### 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 01/31/2013.