

RE-SOLV LOW FOAMING ACIDIC DETERGENT

PRODUCT CODE: ICS-123
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:	Re-Solv Low foaming Acidic Detergent
NEW MSDS DATE:	02/03/2010
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

**EXPOSURE PREVENTION: AVOID ALL CONTACT!
PREVENT DISPERSION OF MISTS OR DUST!**

RISK STATEMENTS:

Harmful by inhalation and if swallowed.
Irritating to eyes, respiratory system and skin.
Very toxic if swallowed.
Causes severe burns.

SAFETY STATEMENTS:

Keep locked up and out of the reach of children.
Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Never add water to this product.
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.

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
Ammonium Bifluoride	1341-49-7	-	0- 10	None Known	None Known
2-Butoxyethanol	111-76-2	203-905-0	0- 4	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).

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

Above flash point, use a closed system, ventilation,

EXTINGUISHING MEDIA

Use dry powder, AFFF, alcohol-resistant foam, water spray, carbon dioxide,

In case of fire in surroundings, . . . NO water.

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.

Isolate from oxidizers, heat, & open flame.

Closed containers may explode if exposed to extreme heat.

Applying to hot surfaces requires special precautions.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE MEASURES:

EVACUATE DANGER AREA! Consult an expert!

Keep unprotected personnel away.

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.

Wash away remainder with plenty of water.

Do NOT absorb in sawdust or other combustible absorbents.

SECTION 7. HANDLING AND STORAGE

HANDLING

Use only with adequate ventilation. Avoid or repeated 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.

STORAGE

Keep separated from strong oxidants, strong bases, combustible & reducing substances, metals, food & feedstuffs, incompatible materials. May be stored in stainless steel containers.
Store in an area having corrosion resistant concrete floor.
See: Section 10, <Materials to Avoid>.
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, Blue
ODOR:	Bubble Gum Scent
ODOR THRESHOLD:	Not Available
pH (Neutrality):	4-6
MELTING POINT/FREEZING POINT:	Not Available
BOILING RANGE (IBP, Dry Point):	100 172* C / 212 342* 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):	0.686
GRAVITY @ 68/68 F / 20/20 C:	
SPECIFIC GRAVITY (Water=1):	1.035
POUNDS/GALLON:	8.622
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):	2.2 Vol% /20.0 g/L / 0.1 Lbs/Gal
NONEXEMPT VOC'S (CVOC):	2.2 Vol% /20.0 g/L / 0.1 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)	0.051

SECTION 10. STABILITY & REACTIVITY

STABILITY

Stable under normal conditions.

CONDITIONS TO AVOID

Isolate from oxidizers, heat, & open flame.

MATERIALS TO AVOID

The substance is a strong acid, reacts violently with bases and is corrosive.

Upon heating, irritating and toxic fumes are formed including sulfur oxides,

The substance is a strong oxidant & reacts violently with combustible &

reducing materials. Reacts with strong oxidants,

causing fire & explosion hazard. Corrosive to most common metals.

forming flammable/explosive gas (hydrogen).

Sulfuric acid reacts violently with water & organic materials with much heat.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide, Carbon Dioxide from heating.

HAZARDOUS POLYMERIZATION

Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE HAZARDS

EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis.

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

<u>MATERIAL</u>	<u>CAS#</u>	<u>EINECS#</u>	<u>LOWEST KNOWN LETHAL DOSE</u>
			LOWEST KNOWN LD50 (ORAL)
Ethylene Glycol Butyl Ether	111-76-2	231-639-5	320.0 mg/kg (Rabbits)
			LOWEST KNOWN LC50 (VAPORS)
Ethylene Glycol Butyl Ether	111-76-2	231-639-5	700 ppm (Mice)
			LOWEST KNOWN LD50 (SKIN)
Ethylene Glycol Butyl Ether	111-76-2	231-639-5	440.0 mg/kg (Rabbits)

SECTION 12. ECOLOGICAL INFORMATION

AQUATIC ANIMAL INFORMATION:

The most sensitive known aquatic group to any component of this product is:
Tidewater Silversides 1250 ppm or mg/L (96 hour exposure).
Keep out of sewers and natural water supplies.
The substance is harmful to aquatic 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.

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: UN2817, Ammonium Hydrogenfluoride, 8, (6.1), PG-II
DRUM LABEL: Corrosive (8), Toxic (6.1)
IATA / ICAO: UN2817, Ammonium Hydrogenfluoride, 8, (6.1), PG-II
IMO / IMDG: UN2817, Ammonium Hydrogenfluoride, 8, (6.1), 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>					
*Ammonium Hydrogenfluoride	1341-39-7	-	0-10	(302,311,312,313)	100
*2-Butoxyethanol	111-76-2	203-905-0	0-4	(313)	None

SECTION 15. REGULATORY INFORMATION (CONTINUED)

> 471 LB / 214 KG OF THIS PRODUCT IN 1 CONTAINER EXCEEDS THE "RQ" OF AMMONIUM BIFLUORIDE.

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.

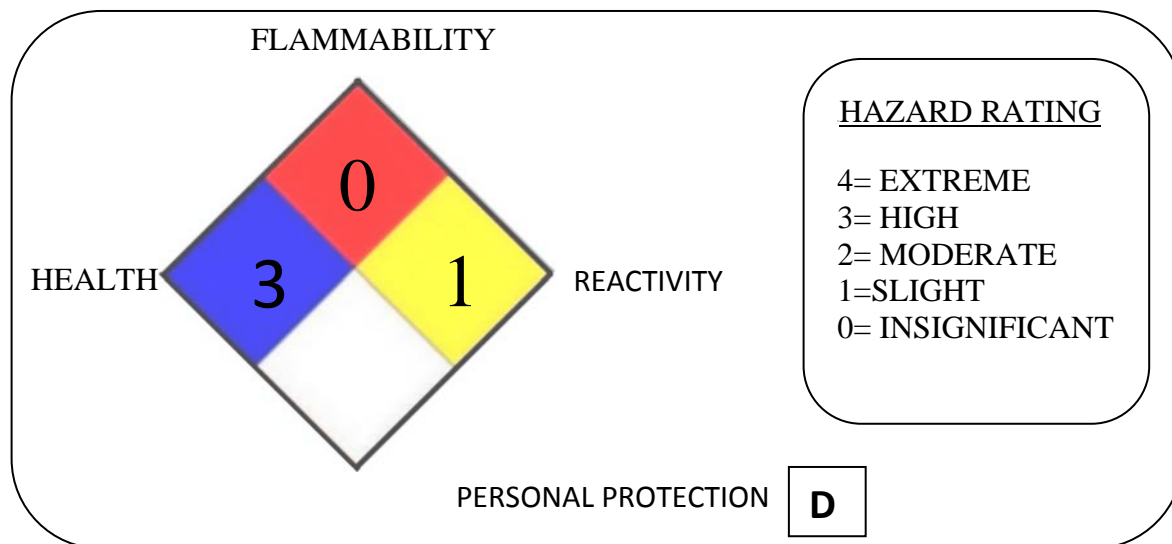
SECTION 16. OTHER INFORMATION

HAZARD RATINGS:

HEALTH (NFPA): 3, HEALTH (HMIS): 3, FLAMMABILITY: 0, REACTIVITY: 1
(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 02/03/2013.