



<p style="text-align: center;"><b>NFPA Rating</b></p> <p style="text-align: center;">Flammability</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">Health <b>1</b></div> <div style="text-align: center;"><b>0</b></div> <div style="text-align: center;"><b>0</b></div> </div> <p style="text-align: right;">Reactivity</p> <div style="text-align: center; margin-top: 10px;"> <p>0 = Minimal Hazard 4 = Severe Hazard</p> </div>	<p><b>Material Safety Data Sheet</b></p> <div style="background-color: #0056b3; color: white; padding: 20px; font-size: 2em; font-weight: bold; margin: 10px 0;">‘CARBONIL’</div> <p><b>Hydrocarbon Encapsulation Chemical Agent</b></p>	<p style="text-align: center;"><b>HMIS Rating</b></p> <p style="text-align: right;">Health - 1 Flammability - 0 Reactivity - 0 Personal Protection - B</p> <hr/> <p style="text-align: center;">0 = Minimal Hazard 4 = Severe Hazard B = Safety Glasses &amp; Gloves</p>
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**1. PRODUCT & COMPANY IDENTIFICATION**

Product Name..... Carbonil  
 Chemical Use..... Hydrocarbon Encapsulator  
 Chemical Family..... Mixture  
 Issue Date of MSDS..... August 9, 2007

**MANUFACTURER:**  
**Vapor Technologies, Inc.**  
 957 Nasa Road One #110  
 Houston, TX 77058 USA  
 (281) 957-5412  
 www.vapor-tech.net

**EMERGENCY TELEPHONE NUMBER:**  
 (877) 840-0646

**4. FIRST AID MEASURES**

Eye Contact.....Immediately flush eyes with plenty of water. Get medical attention if irritation develops or persists.

Skin Contact.....Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.

Inhalation.....If exposed to excessive levels of fumes, remove to fresh air. Get medical attention if cough or other symptoms develop.

Ingestion.....Do not induce vomiting. Drink one or two glasses of water and get medical attention immediately!

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENT	CAS#	CONCENTRATION
Sodium Hydroxide	1310-73-2	<.5%

**5. FIRE FIGHTING MEASURES**

Flash Point.....None.  
 LFL.....None.  
 UFL.....None.

Extinguishing Media.....Use foam, carbon dioxide, or water spray to extinguish flames.

Fire Fighting Instruction.....As with any fire, wear sealed contained breathing apparatus, pressure demand MSHA/NIOSH (approved or equivalent) and full protective gear. Water runoff may cause environmental damage. Dike and collect water used to fight fire.

**3. HAZARDS IDENTIFICATION**

**Emergency Overview**

A light yellow-orange solution which poses little or no immediate hazard. NFPA flammability rating of zero.

**Potential Health Effects**

Eye Contact.....May cause mild irritation and burning.

Skin Contact.....Prolonged or repeated exposure may cause irritation.

Inhalation.....Prolonged or repeated exposure may cause irritation.

Ingestion.....Gastric distress may occur.

**Carcinogenicity:**  
 NTP.....No ingredients are listed.  
 IARC.....No ingredients are listed.  
 OSHA.....No ingredients are listed.

Chronic Effects.....Not determined.  
 Target Organs.....Not determined.  
 Signs & Symptoms.....Eye and skin irritation (redness & swelling).

**6. ACCIDENTAL RELEASE MEASURES**

Clean up spills immediately, observing precautions in Section 8 - Personal Protection. Absorb spill with inert material (e.g., dry sand or earth), then place in chemical waste container.

**7. HANDLING & STORAGE**

Handling.....Avoid contact with eyes, skin, and clothing. Use in well ventilated area.

Storage.....Store in cool place in original container and keep away from direct sunlight. Keep container closed when not in use.

Shelf-Life.....One to two years normally.

Storage Temperature.....5 - 43°C (41 - 110°F)



## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Engineering Controls**.....Good general ventilation should be sufficient to control airborne levels.

**Respiratory Protection**.....For most situations, no respiratory protection is necessary.

**Skin Protection**.....Wear chemical resistant gloves.

**Eye Protection**.....Wear safety-goggles with side shields (or goggles). Contact lenses should not be worn.

**General Hygiene Considerations**.....There are no known health hazards associated with this product when used as recommended. The following general hygiene considerations are recognized as common, good industrial hygiene practices:

- Wash hands after use and before eating.
- Avoid breathing vapors.
- Wear safety glasses and gloves.

Exposure Limits.....Not established for product as whole.

**Ingredients**                      **CAS #**                      **ACGIH**  
None established for individual components.

## 9. PHYSICAL & CHEMICAL PROPERTIES

**Appearance**.....Clear liquid, slight yellow-orange color.

**Odor**.....Pleasant fragrance.

**pH**.....10.5 to 11.5

**Boiling Point**.....220°F

**Freezing Point**.....30°F

**Solubility in Water**.....100%

**Specific Gravity** (water = 1).....1.05

## 10. STABILITY & REACTIVITY

Stability.....Stable.

Hazardous Polymerization.....Will not occur.

Incompatibilities.....May etch aluminum and zinc.

Decomposition Products.....None determined.

## 11. TOXICOLOGICAL INFORMATION

**Eye**.....Not determined.

**Skin**.....Not determined.

**Oral**.....Not determined.

## 12. ECOLOGICAL INFORMATION

Contains no CFC's, phosphates, silicates, borates, halogens, or phenols.

## 13. DISPOSAL CONSIDERATIONS

**Carbonil** is not considered a hazardous waste under Federal Hazardous Waste Regulations 40 CFR 261. Please be advised, however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local authorities regarding the proper disposal of this material.

(Note: Adding chemicals, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate.)

## 14. TRANSPORTATION INFORMATION

### A. USA:

**D.O.T. Shipping**.....Not regulated.

**Technical Shipping Name**.....Liquid detergent.

**D.O.T. Label**.....None.

**D.O.T. Placard**.....None.

**Freight Class Package**.....Class 55

**Product Label**.....Hydrocarbon Encapsulator

### B. CANADA:

**TDG**.....Not regulated.

### C. ENGLAND:

**Approved Carriage List**.....Not regulated.

## 15. REGULATORY INFORMATION

### A. USA:

**TSCA Status**.....All ingredients listed on TSCA inventory.

**SARA TITLE III, 302/303 EHS**.....None.

**SARA TITLE III, 304 HS**.....None.

**SARA TITLE III, 311/312**.....None.

**SARA TITLE III, 313**.....None.

### B. CANADA:

**DSL/NDSL**.....All ingredients are listed.

**WHMIS**.....Not Classified.

### C. EC:

**EINECS**.....All ingredients are listed.

## 16. STATE REGULATORY INFORMATION

For details on specific requirements, you should contact the appropriate agency in your state.

## 17. OTHER INFORMATION

**Revised Date**.....August 9, 2007

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