



# DATASHEET

## CARBONIL ST

### DESCRIPTION

Super-concentrated hydrocarbon encapsulation chemical agent. CARBONIL ST chemically binds with hydrocarbons and other oil-based chemicals. This product greatly reduces LEL levels within 12 hours of application (60% reduction within 30 minutes usually). Excellent for use as a pre-treatment for tanks needing entry with high LEL. Moderate cleaning capabilities. Contains no deodorant. Moderate foaming capabilities.

### PRODUCT USES & APPLICATIONS

- Tank Cleaning
- LEL Control
- Hydrocarbon Stripping
- Spill Control
- Fire Prevention

### APPLICATION INSTRUCTIONS

Dilution Rate	1:5 to 1:20 with water
Set Time	30 minutes to 24 hours
Temperature	Warm water helps stripping

**Special Instructions:** For Scrubbing applications, make sure product has been treated with de-foaming agent.

### HAZARDOUS INFORMATION

Specific Hazard	Eye and skin irritant
Flash Point (°F)	Above 220°
Biodegradability	Excellent
pH	10.5 to 11.5
Unusual Hazards	None

### PACKAGING INFORMATION

Available Quantities	5,30,55,275 and bulk
Packaging Material	Poly
Other Information	Do not let product freeze.

### CASE STUDY & APPLICATION INFO:

#### June 5, 2001: South Texas Plant Operation

CARBONIL ST was used in an emergency situation at a petrochemical plant to encapsulate a spill of epichlorohydrin (ECH). There was a spill of approximately 100 gallons of this product on the ground. An emergency response group foamed CARBONIL ST on the spill to neutralize flammability and to control emissions into the air. After letting Carbonil ST encapsulate the ECH for an hour, it was safely removed.

## GHS SAFETY DATA SHEET

### 'CARBONIL ST'

#### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name..... CARBONIL ST  
 Chemical Use..... Hydrocarbon Encapsulator  
 Chemical Family..... Mixture  
 Issue Date of SDS..... May 9, 2014  
 Revision Date of SDS..... 1/31/2022

#### MANUFACTURER:

**Vapor Technologies, Inc.**  
 7200 Williams Street  
 Hitchcock, TX 77563  
 (409) 316-0173  
[www.vapor-tech.net](http://www.vapor-tech.net)

EMERGENCY TELEPHONE NUMBER: (877) 840-0646

#### SECTION 2 - HAZARDS IDENTIFICATION

**GHS CLASSIFICATION: NON-HAZARDOUS**

<u>Health</u>	<u>Environmental</u>	<u>Physical</u>
Skin Corrosion/Irritation: Category 3	None Known	None Known
Eye Damage/Irritation: Category 2B		

#### GHS LABEL:

**NO SYMBOL**

#### SIGNAL WORD:

**WARNING**

<u>Hazard Statements</u>	<u>Precautionary Statements</u>
H316: Causes mild skin irritation. H320: Causes eye irritation.	P264: Wash hands thoroughly after handling. P305 + P351 + P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313: If skin irritation occurs: Get medical advice/attention. P337 + P313: If eye irritation persists: Get medical advice/attention.
<b>NFPA</b>	<b>HMIS</b>
Health: 1	1 Health
Flammability: 0	0 Flammability
Reactivity: 0	0 Physical Hazard
Special Notice: -	B PPE
	0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe B - Safety Glasses & Gloves

#### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENTS</u>	<u>CAS#</u>	<u>CONCENTRATION</u>
Non-Ionic Surfactant	9016-45-9	20%
MEA	9007-33-4	10-18%

#### SECTION 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!

#### SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: ..... Use foam, carbon dioxide, or water spray to extinguish flames.  
 Unsuitable Extinguishing Media:..... No further relevant information available.  
 Combustion Products: ..... None.  
 Fire Fighting Instructions..... 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.

Personal Precautions:..... Prevent contact with skin and eyes. See Section 8.  
 Environmental Precautions:..... Prevent entry of product into drains, sewers, surface or ground water.  
 Methods for Cleaning Up:..... Clean up spills immediately. Absorb spill with inert material (e.g., dry sand or earth), then place in a suitable container for disposal.

**SECTION 7 - HANDLING AND STORAGE**

Handling:..... Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product. Wear protective gloves, clothing and eye protection when handling this product. Use in well ventilated areas.  
 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)

**SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION**

EXPOSURE LIMITS:	Component	ACGIH (TLV)	ACGIH (STEL)	OSHA (PEL)
	Non-Ionic Surfactant	Not Known	Not Known	Not Known
	MEA	Not Known	Not Known	Not Known

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

**Personal Protective Equipment (PPE):**

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

Skin Protection:..... Wear chemical resistant gloves.

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

General Hygiene Consideration:..... 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.

**SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES**

Appearance:..... Clear to slightly orange liquid.  
 Odor:..... Light odor.  
 Vapor Pressure:..... Not Determined.  
 Odor Threshold:..... Not Determined.  
 Vapor density:..... Not Determined.  
 pH:..... 10.5 to 11.5  
 Relative Density:..... Not Determined.  
 Melting point/Freezing point:..... Not Determined / 30°F  
 Solubility in water:..... 100%  
 Initial boiling point and range:..... 220°F / Not Determined.  
 Flash Point:..... None.  
 Evaporation rate:..... Slightly greater than water.  
 Flammability (solid, gas):..... Not Flammable.  
 Upper/Lower flammability or explosive limits:..... Not Established.  
 Partition coefficient:..... Not Determined.  
 Auto igniting temperature:..... Not Determined.  
 Decomposition temperature:..... Not Determined.  
 Viscosity:..... Not Determined.  
 Specific Gravity (water = 1):..... 1.05

**SECTION 10 - STABILITY & REACTIVITY**

Reactivity:..... No dangerous reaction known under conditions of normal use.

Chemical Stability:..... Stable.

Hazardous Polymerization:..... Will not occur.

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

Decomposition Products:..... None Determined.

