

DATASHEET

CARBONIL ES

DESCRIPTION:

Carbonil ES combines a hydrocarbon encapsulator with a powerful H₂S scavenger. This product is designed for applications where hydrocarbons and H₂S are present at the same time. This product will work well in a tank where you want to lower LEL and H₂S levels immediately. It may also be used in wet scrubber systems. Simply dilute with water and this product will do the rest.

PRODUCT USES & APPLICATIONS

- Tank Cleaning
- Spill Control
- LEL Control
- Vapor Scrubber Systems
- H₂S Neutralization
- Sludge Decontamination

APPLICATION INSTRUCTIONS

Dilution Rate	Up to 20:1 with water
Set Time	30 minutes to 24 hours
Special Instructions	Apply as a foam to surface. Allow to permeate

Special Instructions: For scrubbing applications, make sure product has been treated with defoaming agent. Dilute 5:1 with water in scrubber systems.

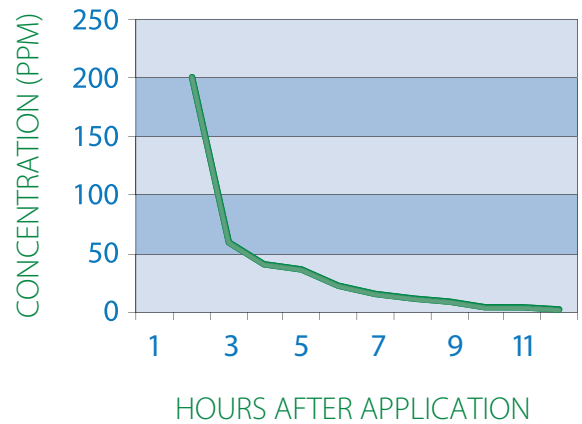
HAZARDOUS INFORMATION

Specific Hazard	Eye and skin irritant
Flash Point (°F)	Above 220°
Biodegradability	Good
pH	10.8-11.3
Unusual Hazards	None

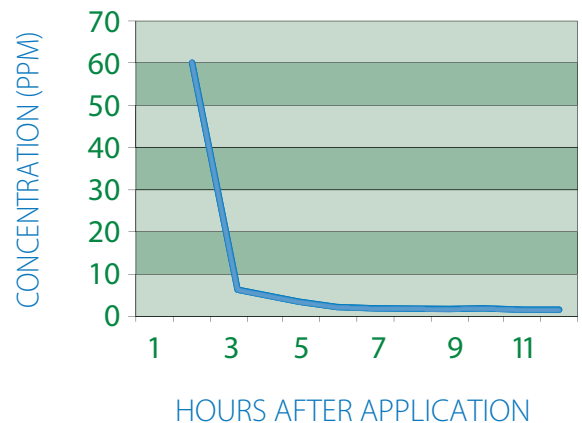
PACKAGING INFORMATION

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

BENZENE PPM LEVELS



H₂S PPM LEVELS



GHS SAFETY DATA SHEET

'CARBONIL ES'

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name..... CARBONIL ES
 Chemical Use..... Hydrocarbon Encapsulator/LEL Scavenger
 Chemical Family..... Mixture
 Issue Date of SDS..... May 9, 2014
 Revision Date of SDS..... 01/31/22

MANUFACTURER:

Vapor Technologies, Inc.
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 Hitchcock, TX 77563
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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

Hazard Statements

H316: Causes mild skin irritation.
 H320: Causes eye irritation.

Precautionary Statements

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.

		<u>NFPA</u>			<u>HMIS</u>	
Health	1	1	1	Health	0	0 - Minimal
Flammability	0	0	0	Flammability	0	1 - Slight
Reactivity	0	0	0	Physical Hazard	0	2 - Moderate
Special Notice	-	-	B	PPE	0	3 - Serious
					0	4 - Severe
					0	B - Safety Glasses & Gloves

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENTS</u>	<u>CAS#</u>	<u>CONCENTRATION</u>
Proprietary Amine Complex	290-87-9	20%
Non-Ionic Surfactant	9016-45-9	20%
Fragrance	Proprietary	1%

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

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 amber color liquid.
 Odor:..... Pleasant fragrance.
 Vapor Pressure:..... Not Determined.
 Odor Threshold:..... Not Determined.
 Vapor density:..... Not Determined.
 pH:..... 10.8 - 11.3
 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):..... 1.09

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.

Likely Routes of Exposure:..... Inhalation, Eye and Skin Contact

Acute symptoms and effects:

- Eye..... May cause mild irritation and burning.
Skin..... Prolonged or repeated exposure may cause irritation.
Ingestion..... May be harmful if swallowed.
Inhalation:..... Prolonged or repeated exposure may cause irritation.

Chronic Exposure:..... Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

Toxicity Data: LD50 Not Known LC50 Not Known

Carcinogenicity..... Not a known carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

- Ecotoxicity:..... No further relevant information available.
Mobility in soil:..... No further relevant information available.
Degradability:..... Expected to readily biodegrade.
Bioaccumulation:..... No further relevant information available.

SECTION 13 - DISPOSAL CONSIDERATION

CARBONIL ES 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 SDS incomplete, inaccurate, or otherwise inappropriate).

SECTION 14 - TRANSPORTATION INFORMATION

- A. USA: UN Number..... Not Regulated.
D.O.T UN Proper Shipping Name..... Not Regulated.
Packaging group..... Not Regulated.
Technical Shipping Name..... Liquid detergent.
D.O.T. Label..... Not Regulated.
D.O.T. Placard..... Not Regulated.
Freight Class Package..... Class 55
B. CANADA: TDG..... Not Regulated.
C. ENGLAND: Approved Carriage List..... Not Regulated.

SECTION 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 Regulated/Non Hazardous
C. EC: EINECS..... All ingredients are listed.

SECTION 16 - OTHER INFORMATION

For details on specific requirements, you should contact the appropriate agency in your state. While Vapor Technologies Inc. believes the information contained herein to be true and accurate, it has relied on information provided by others. Vapor Tech makes no warranties, expressed or implied, as to the accuracy of the information contained herein or with respect to the results to be obtained from the use of this product. Vapor-Tech disclaims all liability with respect to the use of this product, including without limitation, liability for injury to the user or third-party persons.

Approval Date: 1/31/22