



DATASHEET

CARBONIL XT

DESCRIPTION

Super-concentrated hydrocarbon encapsulation chemical agent. Carbonil XT 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 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
Special Instructions	Warm water helps stripping

Special Instructions: For scrubbing applications, make sure product has been treated with defoaming agent.

HAZARDOUS INFORMATION

Specific Hazard	Eye and skin irritant
Flash Point (°F)	Above 220°
Biodegradability	Excellent
pH	10.5-11.5
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

March 12, 2002 South Texas Plant Operation

Carbonil XT was used during and EDC tank cleaning operation to lower LEL in a storage tank. Carbonil XT was diluted 1:15 with water and then applied to tank walls. Eight hours later LEL was less than 1% and the tank was safely entered.

August 2016: Robinson, IL Refinery

Carbonil XT was being used in one of Vapor Tech's SST-40 packed column vapor scrubbers at a refinery in Illinois. Vapors were being emitted from an oil-water separator. Customer was using straight carbon to control vapors prior to installing the Vapor Tech scrubber using the Carbonil XT chemical media. Customer informed Vapor Tech they have been saving over \$12,000 per week in carbon media related costs. System is now permanently installed into the process due to the cost savings.

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..... Pleasant fragrance.
 Vapor Pressure..... Not Determined.
 Odor Threshold..... Not Determined.
 Vapor density..... Not Determined.
 pH..... 10.5 - 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.

