



DATASHEET

BSX50-EVT6

DESCRIPTION:

Description: This product is a mixture of Bio-Scrub X (for hydrocarbon absorption) and Enviro-Scrub VT 6% (H2S Scavenger). This solution is designed to be used in 'forced-induction' and bubble-up types systems. This product will absorb hydrocarbons and will neutralize H2S simultaneously. This product is NOT designed for packed-column scrubbers since it requires constant mixing which is present in 'forced-induction' scrubbers like Vapor Tech's E550 or E5500.

PRODUCT USES & APPLICATIONS

- Forced-Induction Scrubber Systems
- Bubble-Up Systems
- Solvent Absorption Systems

APPLICATION INSTRUCTIONS

Dilution Rate	Does NOT dilute with water
Application Methods	Not for use in packed-column scrubbers
Special Instructions	Do not add surfactants to this mixture!

Scrubbing Instructions: Add entire contents to scrubber reservoir, do not dilute with water. Settled product will show separation which is normal. During scrubbing, product will mix to allow for proper neutralization.

HAZARDOUS INFORMATION

Specific Hazard	Eye and skin irritant
Flash Point (°F)	266°
Biodegradability	Excellent
pH	10--11
Unusual Hazards	Incompatible with rubber
Other Information	Product freezes at 32°F

PACKAGING INFORMATION

Available Quantities	55 and 275 gallon containers
Packaging Material	Poly
Other Information	High Freeze point.
Do not use this product if temperatures will be below 32°F.	

CASE STUDY & APPLICATION INFO:

April 10, 2014: Refinery Texas City, TX

BSX50-EVT6 was used in a major refinery in Texas City, TX to scrub exhaust from a vacuum truck containing H2S and hydrocarbons from slop tank. Vapor Tech's E550 'Forced Induction' scrubber was used in this application. 275 gallon tote was pumped into the scrubber. Vapors were then run through the unit with 95% removal of hydrocarbons and 99% of H2S removed. This setup was ideal since it saved the customer from having to run two separate scrubbers.

October 29, 2014: Refinery Lemont, IL

BSX50-EVT6 was used in Vapor Tech's E5500 High Volume vapor scrubber unit to remove H2S and benzene vapors. Prior scrubber carbon was becoming spent after only 2 days. Once Vapor Tech's E5500 was installed and BSX50-EVT6 was used, carbon media lasted 2 weeks before needing change-out. Exhaust from GapVac truck during a turnaround was feeding the scrubber.



GHS SAFETY DATA SHEET

'BSX50-EVT6'

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name..... BSX50-EVT6
 Synonyms..... None
 Chemical Use..... Mixed Scrubbing Agent
 Chemical Family..... Mixture
 Issue Date of SDS..... July 25, 2014
 Revision Date of SDS..... 1/31/2022

MANUFACTURER:

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SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION: NON-HAZARDOUS

<u>Health</u>		<u>Environmental</u>	<u>Physical</u>	
Acute Toxicity- Oral:	Category 4	None Known	Flammable Liquid:	Category 4
Acute Toxicity-Inhalation	Category 4			
Skin Corrosion/Irritation:	Category 2			
Eye Damage/Irritation:	Category 2A			

GHS LABEL:



SIGNAL WORD:

WARNING

GHS07 Irritant

Hazard Statements

H227: Combustible Liquid
 H302: Harmful if swallowed.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H332: Harmful if inhaled.

Precautionary Statements

P210: Keep away from flames and hot surfaces. - No smoking.
 P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
 P264: Wash hands thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P271: Use only outdoors or in a well-ventilated area.
 P280: Wear protective gloves/eye protection/face protection.
 P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
 P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P330: Rinse mouth.
 P332 + P313: If skin irritation occurs: Get medical advice/attention.
 P337 + P313: If eye irritation persists: Get medical advice/attention.
 P362: Take off contaminated clothing and wash before reuse.
 P370 + P378: In case of fire: Use water spray, dry chemical, foam or carbon dioxide.
 P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

	<u>NFPA</u>
Health	1
Flammability	1
Reactivity	0
Special Notice	-

<u>HMIS</u>	
1	Health
1	Flammability
0	Physical Hazard
G	PPE

0 - Minimal
 1 - Slight
 2 - Moderate
 3 - Serious
 4 - Severe
 G - Safety Glasses, Gloves & Vapor Respirator

<u>INGREDIENTS</u>	<u>CAS#</u>	<u>CONCENTRATION</u>
Mixed Methyl Esters	67784-80-9	50%
Proprietary Amine Solution	N/A	50%

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!** Do not give any liquid. Contact physician 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: Carbon Monoxide

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.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

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

<u>EXPOSURE LIMITS:</u>	<u>Component</u>	<u>ACGIH (TLV)</u>	<u>ACGIH (STEL)</u>	<u>OSHA (PEL)</u>
	Mixed Methyl Esters	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. Respirator needed if mist of product is present.

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..... Amber to light brown liquid (possible dual layer).

Odor..... Slight solvent/amine odor.

Vapor Pressure..... < 1 mmHg @ 72C

Odor Threshold..... Not Determined.

Vapor density..... Not Determined.

pH..... 10 - 11.

Relative Density..... Not Determined.

Melting point/Freezing point:..... Not Determined / 35 - 40°F

Solubility in water..... Negligible.

Initial boiling point and range..... 390°F+ / Not Determined.

Flash Point..... 266°F

Evaporation rate..... > 1

Flammability (solid, gas):..... N/A

Upper/Lower flammability or explosive limits:..... Not Established.

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

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