

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 <u>NOT</u> 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 Application Methods Special Instructions Does NOT dilute with water Not for use in packed-column scrubbers 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 Flash Point (°F) Biodegradability pH Unusual Hazards Other Information

Eye and skin irritant 266° Excellent 10--11 Incompatible with rubber Product freezes at 32°F

LES NEWS IN THE

PACKAGING INFORMATION

Available Quantities Packaging Material Other Information

/apor Technologies, Inc

55 and 275 gallon containers Poly 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.





			TY DATA SHEET		
			X50-EVT6'		
SECTION 1 - PRODUCT ANI	D COMPANY I	DENTIFICATION			
Product Name	BSX50-EVT6			MANUFACTURER:	
Synonyms	None			Vapor Technologies, Inc.	
Chemical Use	Mixed Scrubbing	Agent		7200 Williams Street	
Chemical Family				Hitchcock, TX 77563	
ssue Date of SDS	• •			(409) 316-0173	
Revision Date of SDS	1/31/2022			www.vapor-tech.net	
		EPHONE NUMBER: (87	7) 840-0646		
SECTION 2 - HAZARDS IDE					
GHS CLASSIFICATION:	NON-HAZAI			1	
<u>Health</u>			<u>ivironmental</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				
			SIGNAL WORD:		
			WARNING		
GHS07 Irritant	Statements		Drocautio	nary Statements	
1227: Combustible Liquid	Statements		P210: Keep away from flames a		
H302: Harmful if swallowed.			P261: Avoid breathing dust/fun		
H315: Causes skin irritation.			P264: Wash hands thoroughly a		
H319: Causes serious eye irritation.			P270: Do not eat, drink or smol	-	
H332: Harmful if inhaled.			P271: Use only outdoors or in a		
			P280: Wear protective gloves/e		
				Call a POISON CENTER or doctor/physician	if you
			feel unwell.		ii you
			P302 + P352: IF ON SKIN: Wash	with plenty of soap and water	
				ove victim to fresh air and keep at rest in a	nosition
			comfortable for breathin		pooleion
				 Rinse cautiously with water for several mi 	inutes.
				f present and easy to do. Continue rinsing.	
			P330: Rinse mouth.		
			P332 + P313: If skin irritation or	ccurs: Get medical advice/attention.	
				ersists: Get medical advice/attention.	
			P362: Take off contaminated cl		
			P362: Take off contaminated cl P370 + P378: In case of fire: Us	-	n dioxide.
			P370 + P378: In case of fire: Us	e water spray, dry chemical, foam or carbo	n dioxide.
			P370 + P378: In case of fire: Us	e water spray, dry chemical, foam or carbo ainer in accordance with local/regional/	n dioxide.
	NEPA	HMIS	P370 + P378: In case of fire: Us P501: Dispose of contents/cont	e water spray, dry chemical, foam or carbo ainer in accordance with local/regional/ egulations.	n dioxide.
Health	<u>NFPA</u>	HMIS 1	P370 + P378: In case of fire: Us P501: Dispose of contents/cont national/international re	e water spray, dry chemical, foam or carbo ainer in accordance with local/regional/ egulations. 0 - Minimal	n dioxide.
Health	1	1	P370 + P378: In case of fire: Us P501: Dispose of contents/cont national/international re Health	e water spray, dry chemical, foam or carbo ainer in accordance with local/regional/ egulations. 0 - Minimal 1 - Slight	n dioxide.
Flammability	1 1	1	P370 + P378: In case of fire: Us P501: Dispose of contents/cont national/international re Health Flammability	e water spray, dry chemical, foam or carbo ainer in accordance with local/regional/ egulations. 0 - Minimal 1 - Slight 2 - Moderate	n dioxide.
Flammability Reactivity	1 1 0	1 1 0	P370 + P378: In case of fire: Us P501: Dispose of contents/cont national/international re Health Flammability Physical Hazard	e water spray, dry chemical, foam or carbo ainer in accordance with local/regional/ egulations. 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious	n dioxide.
Flammability	1 1	1	P370 + P378: In case of fire: Us P501: Dispose of contents/cont national/international re Health Flammability	e water spray, dry chemical, foam or carbo ainer in accordance with local/regional/ egulations. 0 - Minimal 1 - Slight 2 - Moderate	n dioxide.

SECTION 3 -	- COMPOSITION/INFORMATIO	N ON INGREDIENTS	S Page 2	BSX50-EVT6
	INGREDIENTS	CAS#		CONCENTRATION
	Mixed Methyl Esters	67784-80-9		50%
	Proprietary Amine Solution	N/A		50%
SECTION 4 -	- FIRST AID MEASURES			
ye Contact	Immediately flush	eyes with plenty of water.	Get medical attention i	f irritation develops or persists.
kin Contact	Remove contamin	ated clothing. Wash skin w	vith soap and water. Ge	t medical attention if irritation develops or persists.
	•			dical attention if cough or other symptoms develop.
ngestion	DO NOT INDUCE V	OMITING! Do not give any	y liquid. Contact physic	ian immediately!
SECTION 5 -	- FIREFIGHTING MEASURES			
-	iishing Media: Use foam, carbon		extinguish flames.	
	nguishing Media: No further relevan	t information available.		
	oducts: Carbon Monoxide			
Fire Fighting Inst				re demand MSHA/NIOSH (approved or equivalent)
	and full protective	gear. Water runoff may ca	ause environmental dan	nage. Dike and collect water used to fight fire.
SECTION 6 -	- ACCIDENTAL RELEASE MEASU	JRE		
	itions: Prevent contact w			
	Precautions Prevent entry of p		5	
Methods for Clea		nediately. Absorb spill with	n inert material (e.g., dr	y sand or earth), then place in a suitable container
	for disposal.			
	- HANDLING AND STORAGE			
-landling:				ke when using this product. Wear protective gloves,
_		rotection when handling th	-	
-		-	eep away from direct su	inlight. Keep container closed when not in use.
Shelt-Lite	One to two years r	ormally.		
	F 43%C (44 440%	F)		
Storage Tempera	ature 5 - 43°C (41 - 110°	F)		
	EXPOSURE CONTROL / PERSON			
SECTION 8 E	EXPOSURE CONTROL / PERSO		ACGIH (STEL)	OSHA (PEL)
SECTION 8 E	EXPOSURE CONTROL / PERSON ITS: <u>Component</u> Mixed Methyl Esters	ACGIH (TLV) Not Known	Not Known	Not Known
SECTION 8 I EXPOSURE LIMI Engineering Con	EXPOSURE CONTROL / PERSON ITS: <u>Component</u> Mixed Methyl Esters ntrols Good general vent	ACGIH (TLV) Not Known	Not Known	Not Known
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SECTION 9 - PHYSICAL & CHEN	/ICAL PROPERTIES (Continued)	Page 3	BSX50-EVT6
Auto igniting temperature	Not Determined.		
Decomposition temperature	Not Determined.		
Viscosity	Not Determined.		
Specific Gravity (water = 1)			
SECTION 10 - STABILITY & REA	CTIVITY		
Reactivity	No dangerous reaction known	under conditions of normal use.	
Chemical Stability	Stable.		
Hazardous Polymerization	Will not occur.		
Incompatibilities	Strong oxidizers such as nitrate	es, chlorates and peroxides.	
Decomposition Products	Carbon monoxide/dioxide.		
SECTION 11 - TOXICOLOGICAL	INFORMATION		
Likely Routes of Exposure:	palation and Skin Contact		

	Likely Routes of Exposure: Inhalation and Skin Contact			
Acute symptoms and effects:				
	Eye	. Produces little or no irritation with contact on the eyes.		
	Skin	Prolonged or repeated exposure may cause irritation and/or drying of skin.		
	Ingestion	. Not likely to be toxic by ingestion.		
	Inhalation:	No acute effects from routine operations. Overheating of product may produce vapors which may cause nausea &		
		dizziness.		
Chronic Exposure:			rated exposures are not anticipated to cause additional significant adverse effects.	
Toxicity Data: LD50 LC50		<u>LC50</u>		
		Not Known	Not Known	
	Carcinogenicity	Not a known carcinogen.		

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	The 96 hour LC50 for BIO-SCRUB X in bluegill fish is >1000mg/l.
Mobility in soil:	No further relevant information available.
Degradability:	Expected to readily biodegrade.
Bioaccumulation:	No further relevant information available.

SECTION 13 - DISPOSAL CONSIDERATION

BSX50-EVT6 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 or otherwise inappropriate).

SECTION 14 - TRANSPORTATION INFORMATION				
<u>A.</u> <u>USA:</u>	UN Number Not Regulated.			
D.O.T	UN Proper Shipping Name Not Regulated.			
	Packaging group Not Regulated.			
	Technical Shipping Name Methyl/Esters.			
	D.O.T. Label Not Regulated.			
	D.O.T. Placard Not Regulated.			
	Freight Class Package Class 55			
	Product Label Scrubbing Agent.			
<u>B.</u> <u>CANAD</u>	A: TDG Not Regulated.			
<u>C.</u> ENGLAN	ID: Approved Carriage List Not Regulated.			
SECTION 15 - REGULATORY INFORMATION				

SECTION 15 - REGULATORY INFORMATION			
<u> </u>	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	
<u>B.</u>	CANADA:	DSL/NDSL All ingredients are listed.	
		WHMIS Not Classified.	
<u>C.</u>	<u>EC:</u>	EINECS All ingredients are listed.	

SECTION 16 - OTHER INFORMATION

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

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