

# **DESCRIPTION**

Liquid neutralizing chemical agent for hydrogen sulfide and other compounds. This product provides a very fast reaction with hydrogen sulfide. The unique blend of additives and sodium hydroxide provide the environment for an ultra-fast and safe reaction to form soluble salts. Excellent for use in scrubber systems. Non-foaming formula. May also be used to neutralize chlorine, acetates and acids. Corrosive mixture!

## PRODUCT USES & APPLICATIONS

- · Tank Cleaning
- · H2S Abatement
- · Line Cleaning
- Vapor Scrubber Systems
- Rail Car Cleaning

## APPLICATION INSTRUCTIONS

4:1 with water Dilution Rate Spray Systems or in Scrubber Application Method

Systems

Special Instructions Maintain pH level of 11.7

**Additional Instructions:** For maximum H2S removal, maintain a pH of 11.7 or higher in scrubber systems. If stream has high CO2 levels, EZ-STRIP SS will be consumed by CO2 as well as H2S. Thus, expect higher usage rates of EZ-STRIP SS when high CO2 levels exist.

## HAZARDOUS INFORMATION

Specific Hazard Corrosive liquid Above 220° Flash Point (°F) Biodegradability Good На 13 0-13 7 Unusual Hazards Avoid soft metals

Other Information Degrades with CO2 presence

# PACKAGING INFORMATION

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

vapor-tech.net

## CASE STUDY & APPLICATION INFO:

## January 20, 2008 Asphalt Manufacturing Facility

EZ-STRIP SS was used in a scrubber system at an asphalt plant to help control H2S levels during a specialty product mix. H2S levels were 500 ppm before the scrubber. EZ-STRIP was added to the scrubber unit and the pH level kept at 12. A twin column vapor scrubber was used to control the H2S emissions (Model SST-40). After the first tower the H2S levels were reduced to 29. After the 2nd tower the reading was 0 ppm. Thus, the scrubber was able to reduce the H2S levels from 500 to 0 ppm without the use of any carbon media.

## **August 12, 2007 Chemical Facility**

EZ-STRIP SS was used to neutralize chlorine vapors stemming from a process at a chemical facility. One of Vapor Tech's twin column units (CST-18) was used to neutralize the effluent chlorine gas coming from their reactor. CFM levels were low (200 CFM) and the ppm of chlorine before the scrubber was 180. After both towers the chlorine levels were 0-1 without any carbon or post treatment.





# **GHS SAFETY DATA SHEET** 'EZ-STRIP SS'

#### **SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

Chemical Use...... Alkaline Neutralizing/Scrubbing Agent

Chemical Family......Mixture

Issue Date of SDS...... June 30, 2014

Product Name..... EZ STRIP SS

Revision Date of SDS......1/31/2022

**EMERGENCY TELEPHONE NUMBER: (877) 840-0646** 

#### **MANUFACTURER:**

Vapor Technologies, Inc.

7200 Williams Street

Hitchcock, TX 77563

(409) 316-0173

www.vapor-tech.net

# SECTION 2 - HAZARDS IDENTIFICATION

#### **GHS CLASSIFICATION:**

<u>Health</u>		<u>Environn</u>	<u>nental</u>	<u>Physical</u>	
Skin Corrosion:	Category 1A	Acute Toxicity:	Category 3	Corrosive to Metals:	Category 1
Acute Toxicity - Oral:	Category 4	(Aquatic Environment)			
Acute Toxicity-Inhalation	Category 4				
Eye Damage:	Category 1				

## **GHS LABEL:**





**GHS07 Irritant** 

## **SIGNAL WORD:**

### **DANGER**

**GHS05** Corrosive

<u>:S</u>

Hazard Statements

H290: May be corrosive to metals. H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H332: Harmful if inhaled.

H402: Harmful to aquatic life.

## **Precautionary Statements**

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.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P312: IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting,

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

P310: Immediately call a POISON CENTER or doctor/physician.

P363: Wash contaminated clothing before reuse.

P390: Absorb spillage to prevent material damage.

P501: Dispose of contents/container in accordance with local/regional/national/ international regulations.

	<u>NFPA</u>
Health	2
Flammability	0
Reactivity	1
Special Notice	COR

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

SECTION 3 - COMPOSITION,	INFORIVIATION				EZ-STRIP SS	
INGREDIENTS				CONCENTRATION		
Sodium Hydroxide		1310-73-2		25%		
SECTION 4 - FIRST AID MEA						
Eye Contact			r lifting eyelids frequently. (	Continue to flush eyes for 15 minutes	s. Repeat if	
	necessary. Get medical attention!					
Skin Contact	Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.					
	If exposed to excessive levels of fumes, remove to fresh air. Get medical attention if cough or other symptoms develop DO NOT INDUCE VOMITING! Drink one or two glasses of water and get medical attention immediately!					
ngestion	DO NOT INDUCE VOI	MITING! Drink one or	two glasses of water and ge	t medical attention immediately!		
SECTION 5 - FIREFIGHTING I	MEASURES					
Suitable Extinguishing Media:	. Use foam, carbon dic	oxide, or water spray to	o extinguish flames.			
Unsuitable Extinguishing Media:	No further relevant ir	nformation available.				
Combustion Products:	Not considered to be	an explosion hazard.				
Fire Fighting Instructions	As with any fire, wear	r sealed contained bre	eathing apparatus, pressure of	demand MSHA/NIOSH (approved or	equivalent)	
	and full protective ge	ear. Water runoff may	cause environmental damag	ge. Dike and collect water used to fig	ght fire.	
SECTION 6 - ACCIDENTAL RI	ELEASE MEASUR	RE				
Personal Precautions:	Prevent contact with	skin and eyes. See Se	ction 8.			
Environmental Precautions	Prevent entry of proc	duct into drains, sewer	s, surface or ground water.			
Methods for Cleaning Up:	Clean up spills immed	diately. Absorb spill w	ith inert material (e.g., dry sa	and or earth), then place in a suitable	e container	
	for disposal.					
SECTION 7 - HANDLING AND	D STORAGE					
Handling:	. Avoid contact with ev	yes, skin and clothing.				
		moke when using this	product.			
	Wear protective glov	es, clothing and eye pr	rotection when handling this	product.		
	Use in well ventilated	d areas.				
Storage	. Store in cool, dry plac	ce in original container	and keep away from direct	sunlight.		
	Keep container close	d when not in use.				
Shelf-Life	One to two years nor	mally.				
Storage Temperature	5 - 43°C (41 - 110°F)					
SECTION 8 EXPOSURE CONT	rol / Person	AL PROTECTION				
EXPOSURE LIMITS:	Component	ACGIH (TLV)	ACGIH (STEL)	OSHA (PEL)		
	Sodium Hydroxide	Not Known	2m/gm3 over 8 hours	Not Known		
Engineering Controls	Good general ventile	tion should be sufficien	nt to control airborno lovols			
Personal Protective Equipment (PPE):	•	tion should be sufficien	int to control an borne levels.			
		with side shields for a	agglas). Contact longer shou	ld not he worn		
	Wear safety-goggles with side shields (or goggles). Contact lenses should not be worn. Wear chemical resistant gloves.					
	wear chemical resistant gloves For most situations, no respiratory protection is necessary.					
ocheral riygiene 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:					
			•	n, 5000 maastilai nygiene practices:		
	Wash hands after use and before eating.  Avoid breathing vapors					
	<ul> <li>Avoid breathing vapors.</li> <li>Wear safety glasses and gloves.</li> </ul>					
Exposure Limits		=				
	Not established for product as whole.					
SECTION 9 - PHYSICAL & CH						
Appearance						
Odor						
Vapor Pressure						
Odor Threshold						
Vapor density (Air=1)	Not	Determined.				
oH	12.9	9 to 13.7				
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.				
nitial boiling point and range Flash Point	220 Not	°F / Not Determined. Flammable.				
Solubility in water	220 Not Not	°F / Not Determined. Flammable. Determined.				

Viscosity...... Not Determined. Specific Gravity (water = 1)....

**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.

#### **SECTION 11 - TOXICOLOGICAL INFORMATION**

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

Acute symptoms and effects:

Eye...... Corrosive! Causes severe burns to eye tissue.

Skin...... Corrosive! Exposure to skin will cause mild to severe burns.

Ingestion...... Severe gastric damage.

Inhalation:......Burning to nasal passages and soft tissue.

**Toxicity Data:** LD50

Not Known Not Known

Carcinogenicity...... Not a known carcinogen

#### **SECTION 12 - ECOLOGICAL INFORMATION**

Mobility in soil:...... No further relevant information available.

Degradability:..... Expected to readily biodegrade.

#### **SECTION 13 - DISPOSAL CONSIDERATION**

EZ-STRIP SS 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**



UN Number......UN1760 USA: D.O.T Packaging group...... III

**EZ-STRIP SS** 

D.O.T. Label.......UN1760, Corrosive Liquid, 8.

D.O.T. Placard......Corrosive. Freight Class Package...... Class 55

**Required Shipping Label** B. CANADA: TDG...... Corrosive Liquid.

C. ENGLAND: Approved Carriage List...... Corrosive Liquid.

#### **SECTION 15 - REGULATORY INFORMATION**

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 Classified

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.

> 1/31/2022 **Approval Date:**