

# DATASHEET

## VAMSOL 40

### DESCRIPTION:

Water-based neutralizer for vinyl acetate monomer (VAM). VAMSOL 40 contains neutralizers and accelerator to quickly transform VAM into non odorous components. The reaction components do form a particulate which will settle out in bottom of a scrubber system. As VAM is neutralized a color change from clear to maroon or light brown is expected and normal. Color change does not indicate spent media. When pH level of VAMSOL 40 gets below 9, we recommend a full solution change.

### PRODUCT USES & APPLICATIONS

- Tank Cleaning
- Vapor Scrubber Systems
- Spill Control
- Line Cleaning

### APPLICATION INSTRUCTIONS

Dilution Rate	2:1 with water
Application Method	Tank & Line Cleaning or Vapor Scrubber Systems
Notice	Color will change as VAM is neutralized
Spent Solution	Change solution when pH gets below 9

**Special Instructions:** For scrubber systems, do not pull pump suction from bottom of reservoir as the reacted solids which are formed may be drawn into the pump. We recommend a cone-bottom tank with suction above the cone area.

### HAZARDOUS INFORMATION

Specific Hazard	Eye and skin irritant
Flash Point (°F)	Above 220°
Biodegradability	Fair
pH	11-12
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

#### May 15, 2013: South Texas Refinery

VAMSOL 40 was used in a scrubber system to neutralize 400 ppm of VAM vapor coming from a storage tank. The solution was diluted 2:1 with water in the solution reservoir of the scrubber. Customer ran scrubber for 10 days without breakthrough and did not require a carbon change-out.

#### March 22, 2014: Liquid Terminal LaPorte, TX

Customer using VAMSOL-40 to neutralize VAM vapors stemming from tank venting. Levels were as high as 2000 ppm. VAMSOL-40 was diluted with water at 2:1 ratio in the scrubber unit. Solution is lasting approximately 2-3 months per charge.

## GHS SAFETY DATA SHEET 'VAMSOL 40'

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name..... VAMSOL 40  
 Chemical Use..... Liquid Neutralizer  
 Chemical Family..... Mixture  
 Issue Date of SDS..... June 30, 2014  
 Revision Date of SDS..... 1/31/2022

**MANUFACTURER:**

**Vapor Technologies, Inc.**  
 7200 Williams Street  
 Hitchcock, TX 77563  
 (409) 316-0173

EMERGENCY TELEPHONE NUMBER: (877) 840-0646

[www.vapor-tech.net](http://www.vapor-tech.net)

### SECTION 2 - HAZARDS IDENTIFICATION

**GHS CLASSIFICATION:**

<u>Health</u>	<u>Environmental</u>	<u>Physical</u>
Skin Corrosion: Category 2	Aquatic Environment-Acute Hazard: Category 3	None Known
Acute Toxicity - Oral: Category 4		
Eye Damage/Irritation: Category 2A		

**GHS LABEL:**



GHS07 Irritant

**SIGNAL WORD:**

**WARNING**

**Hazard Statements**

H302: Harmful if swallowed.  
 H315: Causes skin irritation.  
 H319: Causes serious eye irritation.  
 H402: Harmful to aquatic life.

**Precautionary Statements**

P264: Wash hands thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 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.  
 P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  
 P332 + P313: If skin irritation occurs: Get medical advice/attention.  
 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.  
 P337 + P313: If eye irritation persists: Get medical advice/attention.  
 P362: Take off contaminated clothing and wash before reuse.  
 P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

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

<u>HMIS</u>	
2	Health
0	Flammability
0	Physical Hazard
B	PPE

0 - Minimal  
 1 - Slight  
 2 - Moderate  
 3 - Serious  
 4 - Severe  
 B - Safety Glasses & Gloves

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENTS</u>	<u>CAS#</u>	<u>CONCENTRATION</u>
Diethanolamine	111-042-2	40%

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 lukewarm 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: ..... Not considered to be an explosion hazard.

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, dry 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:	<u>Component</u>	<u>ACGIH (TLV)</u>	<u>ACGIH (STEL)</u>	<u>OSHA (PEL)</u>
	Diethanolamine	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 yellow liquid.

Odor..... Slight amine odor.

Vapor Pressure..... Not Determined.

Odor Threshold..... Not Determined.

Vapor density (Air=1)..... Not Determined.

pH..... 11.6 - 11.9

Melting point/Freezing point:..... Not Determined / 30°F

Solubility in water..... 100%

Initial boiling point and range..... 220°F / Not Determined.

Flash Point..... Not Flammable.

Evaporation rate..... Not Determined.

Flammability (solid, gas):..... Not Flammable.

Upper/Lower flammability or explosive limits:..... Non-Flammable product.

Partition coefficient..... Not Determined.

Auto igniting temperature..... Product is not self igniting.

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.

### SECTION 11 - TOXICOLOGICAL INFORMATION

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

#### Acute symptoms and effects:

Eye..... Will cause irritation and burning.

Skin..... Prolonged or repeated exposure may cause irritation and burning.

Ingestion..... Severe gastric distress and damage.

Inhalation:..... Prolonged or repeated exposure may cause irritation.

Chronic Exposure:..... Not Determined.

#### Toxicity Data:

**LD50**

**LC50**

Not Known

Not Known

Carcinogenicity..... Not a known carcinogen

### SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:..... Harmful to aquatic life. Product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

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

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

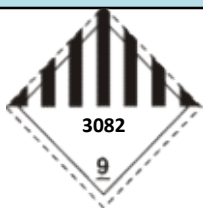
Bioaccumulation:..... No further relevant information available.

### SECTION 13 - DISPOSAL CONSIDERATION

VAMSOL 40 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



Required Shipping Label

- A. USA:** UN Number..... UN3082  
**D.O.T** UN Proper Shipping Name..... Environmentally Hazardous Substance, 9, N.O.S.  
 (Diethanolamine).  
 Packaging group..... II  
 D.O.T. Label..... UN3082, Environmentally Hazardous, 9.  
 D.O.T. Placard..... UN3082  
 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 Classified.
- 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.