

DATASHEET

VP-55D VAPOR CARBON ADSORBER

DESCRIPTION

Carbon adsorber designed for hydrogen sulfide and mercaptan vapors. The drum contains approximately 200 pounds of specialized media which converts sulfur compounds into elemental sulfur. The media in this drum will adsorb an impressive 30% of its weight with sulfur compounds (regular carbon only will adsorb 3-4% by weight). This media will also adsorb organics such as hydrocarbons. This unit is designed for small to moderate air flows (10-120 CFM). Vessels are made of very durable steel with steel internal distributor.

PRODUCT USES & APPLICATIONS

- Product Storage Vents
- Process & Reactor Vents
- Wastewater Odor Control
- Sewer Vents
- Lab Applications
- Frac & Mix Tank Vapor Control

VESSEL SPECIFICATIONS

Vapor Inlet	2" FNPT
Vapor Outlet	2" FNPT
Monitor Port	3/4" FNPT (fits most breakthrough indicators)
Internal Distributor	Steel
Dimensions	25" dia x 35" h
Internal/Exterior Coating	Epoxy/Enamel
Carbon Fill Volume	7.0 cu ft
Cross Sectional Area	2.8 sq ft
Approx Carbon Weight (capacity)	200 lbs
Vessel Construction	Steel
Shipping Weight	245 lbs (approx)
Options Available	Venturi/Electric Blower, Break-through Indicator

OPERATING SPECIFICATIONS

Maximum Flow	120 SCFM
Maximum Pressure	Hydrostatic Pressure tested to 150 kPa (21.7 psi)
Maximum Vacuum	17" Hg
Maximum Temperature	140°
Incompatible Vapors	Ketones & Aldehydes (Fire!)
Fire Hazards	Low Flow with High VOC's

PRESSURE DROP GRAPH (As filled 4x10 GAC)

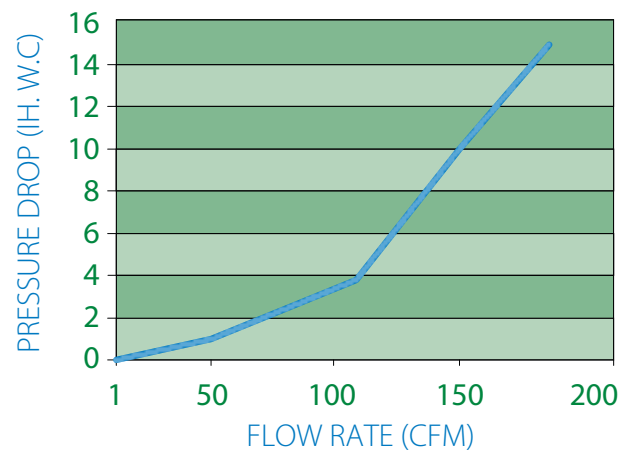
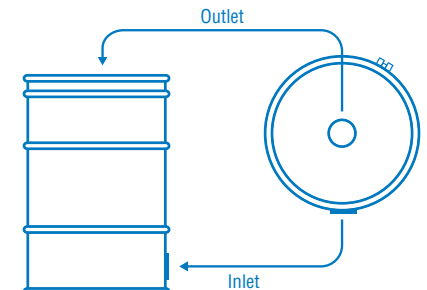


PHOTO & INLET / OUTLET ORIENTATION



VP55 Carbon Vessel Shown with Optional Venturi Blower

GHS SAFETY DATA SHEET

'VP-55D'

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name..... VP-55D
 Product Use..... Liquid and Vapor Application
 Chemical Name..... Darco H2S Activated Carbon
 Issue Date of SDS..... October 3, 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>
Eye Damage Category 2B	None Known	None Known
Skin Corrosion/Irritation Category 3		
Acute Toxicity-Oral Category 5		
Acute Toxicity-Inhalation Category 5		

GHS LABEL:

NO SYMBOL

SIGNAL WORD:

WARNING

<u>Hazard Statements</u>	<u>Precautionary Statements</u>
H303: May be harmful if swallowed. H316: Causes mild skin irritation. H320: Causes eye irritation. H333: May be harmful if inhaled.	P304 + P312: IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor if you feel unwell. P337 + P313: If eye irritation persists: Get medical advice/attention.

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

<u>HMIS</u>	
1	Health
1	Flammability
0	Physical Hazard
	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>
Activated Carbon	7440-44-0	100%

SECTION 4 - FIRST AID MEASURES

Eye Contact..... Flush with copious amounts of water. Seek medical attention if irritation occurs.
 Skin Contact..... Wash material off the skin with soap and water. Seek medical attention if irritation occurs.
 Inhalation..... Remove to fresh air. Seek medical attention if cough or respiratory symptoms develop.
 Ingestion..... Give one or two glasses of water to drink. Seek medical attention if gastrointestinal symptoms develop.

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Extinguish fire using water fog, fine water spray, carbon dioxide or foam.
 Unsuitable Extinguishing Media:..... No further relevant information available.
 Combustion Products: Combustion products may include smoke and oxides of carbon (for example, 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.

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 spills in a manner that does not disperse dust into the air, preferably a wet-down procedure or vacuum.
 If material is not contaminated, spilled media can be rebagged.

SECTION 7 - HANDLING AND STORAGE

Handling:..... Avoid dispersion into the air. Keep containers dry and closed. Wet activated carbon removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces. Do not get in eyes, on skin or clothing. Do not breath dust.
 Storage:..... Store in dry place in original container. Keep away from sources of direct heat. Keep container closed when not in use. Store away from strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc.
 Shelf-Life:..... One year.
 Storage Temperature:..... Store in ambient atmospheric conditions

SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION

<u>Component</u>	<u>ACGIH (TLV)</u>	<u>ACGIH (STEL)</u>	<u>OSHA (PEL)</u>
Activated Carbon	Not Known	Not Known	Not Known

Engineering Controls:..... Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment (PPE):

Eye Protection:..... Safety goggles/glasses recommended.
 Skin Protection:..... Avoid contact with skin. Wear appropriate dust resistant clothing. Wash skin thoroughly after handling.
 Respiratory Protection:..... Standard precaution against dust; use respirator or dust mask.
 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 dust particles.
- Wear safety glasses and gloves.

Exposure Limit:..... Recommended Exposure Limits 8-hr TWA (Total Dust), 2.1 mg/m³
 Recommended Exposure Limits 8-hr TWA (Respirable Fraction), 0.7 mg/m³

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:..... Black granules or powder with no odor.
 Odor:..... Odorless.
 Vapor Pressure:..... Not Determined.
 Odor Threshold:..... Not Determined.
 Vapor density:..... Not Determined.
 pH:..... Not Determined.
 Relative Density:..... Not Determined.
 Melting point/Freezing point:..... Not Determined.
 Solubility in water:..... Insoluble.
 Initial boiling point and range:..... Not Determined.
 Flash Point:..... Nonflammable.
 Evaporation rate:..... Not Determined.
 Flammability (solid, gas):..... Not Determined.
 Upper/Lower flammability or explosive limits:..... Not Established.
 Auto igniting temperature:..... Not Determined.
 Decomposition temperature:..... Not Determined.
 Specific Gravity (water = 1):..... Not Determined.

SECTION 10 - STABILITY & REACTIVITY

Reactivity:..... No dangerous reaction known under conditions of normal use.
 Chemical Stability:..... Stable.
 Hazardous Polymerization:..... Does not occur.
 Incompatibilities:..... Strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion. Avoid contact with strong acids.
 Decomposition Products:..... Oxides of Carbon.

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

Acute symptoms and effects:

- Eye..... Not corrosive, but like most particulate materials, may cause mild physical irritation.
 Skin..... Not corrosive and not a primary skin irritant. Mild irritation is possible due to abrasive action of dust.
 Ingestion..... No known deleterious effects.
 Inhalation:..... Possible mild irritation of respiratory tract due to drying and abrasive actions of dust.

Chronic Exposure:..... The effects of chronic and sub chronic exposure have not been determined.

Toxicity Data: LD50 LC50
 Not Known **Not Known**

Carcinogenicity..... Not Determined.

SECTION 12 - ECOLOGICAL INFORMATION

- Ecotoxicity:..... No further relevant information available.
 Mobility in soil:..... No further relevant information available.
 Degradability:..... Expected to readily biodegrade.
 Bioaccumulation:..... No further relevant information available.

SECTION 13 - DISPOSAL CONSIDERATION

VP-55D with DARCO H2S carbon 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

- A. USA:** **UN Number**..... Not Regulated.
 D.O.T **UN Proper Shipping Name**..... Not Regulated.
 Packaging group..... Not Regulated.
 Technical Shipping Name..... Activated Carbon (Not DOT Regulated)
 D.O.T. Label..... Not Regulated.
 D.O.T. Placard..... Not Regulated.
 Freight Class Package..... Class 70
- 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.

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Revision Date **1/31/2022**