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DATASHEET

# VP-55

## VAPOR PHASE CARBON ADSORBER

### DESCRIPTION

Portable carbon adsorber vessel capable of ltering many different vapor-phase applications. This unit is designed for small to moderate airflows (10-120 CFM). These are excellent for removing many types of hazardous and odorous vapors from the air including most hydrocarbons. Vessels are made of very durable steel with steel internal distributor. Product compatibility chart available on our website which will determine how well carbon will fit your application.

### PRODUCT USES & APPLICATIONS

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

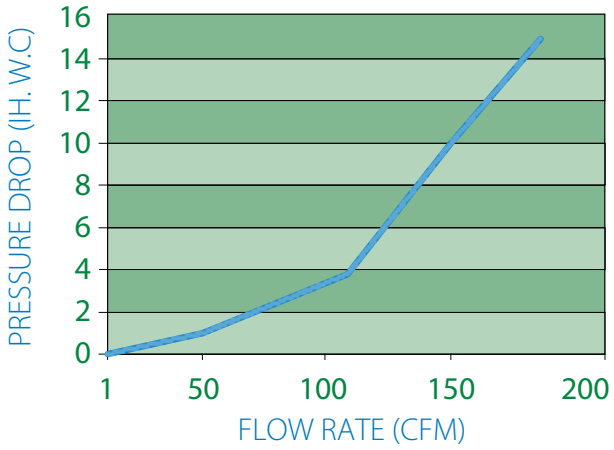
### VESSEL SPECIFICATIONS

| | |
|---|---|
| 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 |

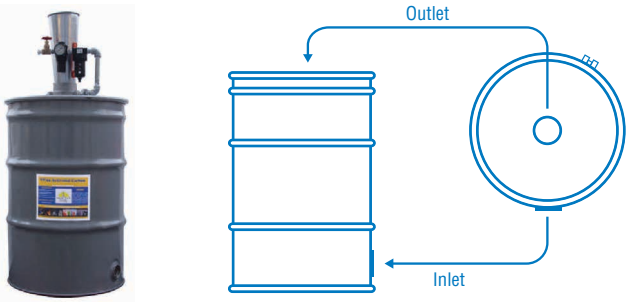
### OPERATING SPECIFICATIONS

| | |
|---|---|
| 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 & Aldehides (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-55'

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name..... VP-55
Product Use..... Liquid and Vapor Application
Chemical Name..... Activated Carbon
Issue Date of SDS..... October 3, 2014
Revision Date of SDS..... 1/31/2022

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

## SECTION 2 - HAZARDS IDENTIFICATION

**GHS CLASSIFICATION: NON-HAZARDOUS**

| Health | | Environmental | Physical |
|---|---|---|---|
| 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**

### Hazard Statements

H303: May be harmful if swallowed.
H316: Causes mild skin irritation.
H320: Causes eye irritation.
H333: May be harmful if inhaled.

### Precautionary Statements

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.

| | NFPA |
|---|---|
| Health | 1 |
| Flammability | 1 |
| Reactivity | 0 |
| Special Notice | - |

| HMIS | |
|---|---|
| 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

| INGREDIENTS | CAS# | CONCENTRATION |
|---|---|---|
| **Activated Carbon** | **7440-44-0** | **100%** |

## SECTION 4 - FIRST AID MEASURES

Eye Contact..... Flush with water for at least 15 minutes.
Skin Contact..... Wash thoroughly with soap and water.
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: ..... Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in fire.
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 direct sunlight and moisture. Keep container closed when not in use.

Shelf-Life..... One year.

Storage Temperature..... Store in ambient atmospheric conditions

## SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION

| Component | ACGIH (TLV) | ACGIH (STEL) | OSHA (PEL) |
|---|---|---|---|
| Activated Carbon | 10mg/M3 (total) | Not Known | 5mg/M3 (respirable) |

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. Rubber gloves recommended.

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.

## 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.

Partition coefficient..... Not Determined.

Auto igniting temperature..... Not Determined.

Decomposition temperature..... Not Determined.

Viscosity..... Not Determined.

Specific Gravity (water = 1)..... 2.3 g/cc real density.

## SECTION 10 - STABILITY & REACTIVITY

Reactivity..... No dangerous reaction known under conditions of normal use.

Chemical Stability..... Stable.

Hazardous Polymerization..... Will not occur.

Incompatibilities..... Strong oxidizers such as liquid oxygen, chlorine, permanganate, etc. Moist air will reduce the operating life.

Decomposition Products..... Carbon monoxide may be generated in the event of fire.

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

**Acute symptoms and effects:**

Eye..... Dust that contacts eyes may cause mild physical irritation.

Skin..... Carbon is non-toxic through skin absorption. Dust may cause slight skin irritation.

Ingestion..... Carbon is non-toxic through ingestion. Ingestion of powder may be irritating to the gastrointestinal tract.

Inhalation:..... Dust may be irritating to the respiratory tract and cause coughing or sneezing.

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

| **Toxicity Data:** | **LD50** | **LC50** |
|---|---|---|
| **Activated Carbon** | **(Rat) - 10 g/kg** | **(Rat) - 64.4 mg/l** |

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-55** with activated 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.

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**Revision Date 1/31/2022**