

DATASHEET

VP-55A FOR AMMONIA/AMINES

DESCRIPTION:

Portable carbon adsorber vessel capable of filtering 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 & Aldehydes (Fire!)
Fire Hazards	Low Flow with High VOC's

PRESSURE DROP GRAPH (As filled 4x10 GAC)

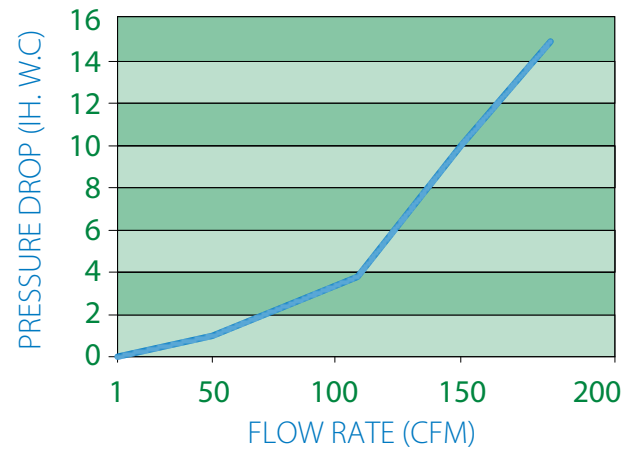
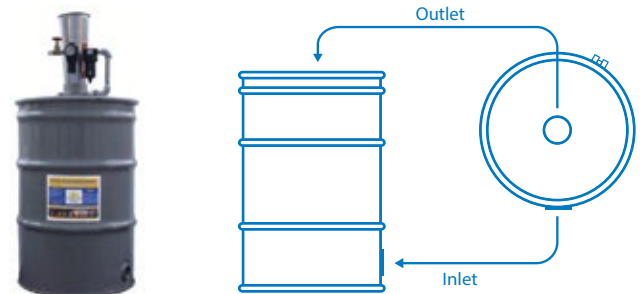


PHOTO & INLET / OUTLET ORIENTATION



VP55 Carbon Vessel Shown with Optional Venturi Blower

Section 1:
PRODUCT AND COMPANY IDENTIFICATION

Product Name..... VP-55A
 Synonyms..... N/A
 Chemical Use..... Liquid and Vapor Application
 Chemical Family..... Activated Carbon
 Issue Date of SDS..... October 10, 2014
 Revision Date of SDS..... 9/26/2025

MANUFACTURER:

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EMERGENCY TELEPHONE NUMBER: (877) 840-0646

Section 2:
HAZARDS IDENTIFICATION

<u>Health</u>	<u>Environmental</u>	<u>Physical</u>
Eye Damage/Irritation: Category 2B Skin Corrosion/Irritation: Category 3 Acute Toxicity-Oral: Category 5 Acute Toxicity-Inhalation: Category 5	None Known	None Known

Hazard Statements

- H316:** Causes mild skin irritation.
H320: Causes eye irritation.
H330: May be harmful if inhaled.
H303: May be harmful if swallowed.

GHS CLASSIFICATION

NON HAZARDOUS

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 and remove contact lenses, if present.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.

SIGNAL WORD:

WARNING

GHS LABEL:

NO SYMBOL

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

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

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

Section 3:
COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS
 Activated Carbon
 Phosphoric Acid - 85%

CAS#
 7440-44-0
 7664-38-2

CONCENTRATION
 85%
 15%

Section 4:
FIRST AID MEASURES

- 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 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: None.
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 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 cool place in original container and keep away from direct sunlight and moisture. Keep container closed when not in use.
Shelf-Life..... One year.
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>
	Activated Carbon	Not Known	Not Known	5mg/M3 (respirable)
	Phosphoric Acid	Not Known	Not Known	1 mg/m3-ceiling

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..... 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..... Phosphoric Acid is soluble in water.
Initial boiling point and range..... Not Determined.
Flash Point..... Non Flammable.
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.

Section 11:
TOXICOLOGICAL INFORMATION

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
 Impreg. Carbon (Rat) - 10 g/k (Rat) - 64.4 mg/l

Carcinogenicity..... Not Determined.

Section 12:
ECOLOGICAL INFORMATION

Ecotoxicity:..... No further relevant information available.
Long Term Exp. (Fish & algae):..... 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 INFORMATION

VP-55A 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. Note: Altering this material may make the waste management information of this SDS incomplete, inaccurate or 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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