

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078937070

N/A

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

**Initial preparation date:** 10.28.2015

Page 1 of 10

**Revision date:** 11.04.2020

### CleanAir™ Anesthesia Absorbing Canister

#### SECTION 1: Identification

##### Product identifier

**Product name:** CleanAir™ Anesthesia Absorbing Canister

**Product code:** 21293768

##### Recommended use of the product and restriction on use

**Relevant identified uses:** Not determined or not applicable.

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

##### Manufacturer or supplier details

###### Supplier:

###### United States

Aspen Veterinary Resources, LTD.  
3155 W. Heartland Drive  
Liberty, MO 64068  
1-800-792-1238

##### Emergency telephone number:

###### United States

CHEMTREC

Within USA and Canada: 1-800-424-9300 (24 hours)

Outside USA and Canada: +1-703-527-3887 (24 hours)

#### SECTION 2: Hazard(s) identification

##### GHS classification:

Eye irritation, category 2A

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

Combustible Dust

##### Label elements

###### Hazard pictograms:



**Signal word:** Warning

##### Hazard statements:

Combustible Dust May form combustible dust concentrations in air.

H319 Causes serious eye irritation

H335 May cause respiratory irritation

##### Precautionary statements:

P264 Wash hands thoroughly after handling

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

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 10.28.2015

Page 2 of 10

Revision date: 11.04.2020

### CleanAir™ Anesthesia Absorbing Canister

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P271 Use only outdoors or in a well-ventilated area

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 If eye irritation persists: Get medical advice/attention

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P312 Call a POISON CENTER/doctor if you feel unwell

P403+P233 Store in a well-ventilated place. Keep container tightly closed

P405 Store locked up

P501 Dispose of contents/container in accordance with local regulations.

**Hazards not otherwise classified:** None

### SECTION 3: Composition/information on ingredients

| Identification           | Name   | Weight % |
|--------------------------|--------|----------|
| CAS number:<br>7440-44-0 | Carbon | >88      |

**Additional Information:** None

### SECTION 4: First aid measures

#### Description of first aid measures

##### General notes:

Show this Safety Data Sheet to the doctor in attendance.

##### After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

##### After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

##### After eye contact:

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

##### After swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

#### Most important symptoms and effects, both acute and delayed

##### Acute symptoms and effects:

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

Product presents an explosion hazard when suspended in air under certain conditions. Inhalation of large amounts of dust may cause inflammation and irritation of the nose and throat. Symptoms may include cough, sore throat, tightness of the chest, chest pain and lightheadedness.

Inhalation may have adverse effects on the respiratory tract. Symptoms may include cough, breathing

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 10.28.2015

Page 3 of 10

Revision date: 11.04.2020

### CleanAir™ Anesthesia Absorbing Canister

difficulties, sore throat and inflammation of the mucous membrane lining the respiratory tract.

#### **Delayed symptoms and effects:**

Effects are dependent on exposure (dose, concentration, contact time).

#### **Immediate medical attention and special treatment**

##### **Specific treatment:**

If respiratory symptoms persist, seek medical attention.

##### **Notes for the doctor:**

Treat symptomatically.

### SECTION 5: Firefighting measures

#### **Extinguishing media**

##### **Suitable extinguishing media:**

Dry chemical, sand and carbon dioxide.

##### **Unsuitable extinguishing media:**

Do not use water, halogenated extinguishing agents and alcohol-based foam.

#### **Specific hazards during fire-fighting:**

May form combustible dust concentrations in air. Reacts with water and alcohols. Reacts violently with oxidants, strong acids and bases and chlorinated hydrocarbons. This generates a fire and explosion hazard. Thermal decomposition may produce irritating/toxic fumes/gases.

#### **Special protective equipment for firefighters:**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode. Use shielding to protect against bursting containers.

#### **Special precautions:**

Violent reactions may result from the use of a water jet or halogenated extinguishing agents. When using extinguishers, avoid dispersing combustible dust into the air. Aim extinguishers directly at the base of the flames and apply the agent as gently as possible. Overall, give preference to using medium to wide spray patterns rather than solid streams. Use only non-sparking tools. Fire fight from a protected location or maximum possible distance. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

### SECTION 6: Accidental release measures

#### **Personal precautions, protective equipment and emergency procedures:**

Evacuate unnecessary personnel. Extinguish any sources of ignition. Do not ventilate area as this may spread dust. Wear recommended personal protective equipment including suitable respiratory protection (see Section 8). Ensure no sources of electric discharge or ignition are on your person before entering area. Do not get on skin, eyes or on clothing. Avoid breathing dust, fumes. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

#### **Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

#### **Methods and material for containment and cleaning up:**

Avoid dust generation or stirring up of dust. Use only non-sparking tools. Ground all equipment used for recovery and clean up. Vacuum up and place in suitable containers for future disposal. Only use vacuum cleaners approved for dust collection. Dispose of in accordance with all applicable regulations (see Section 13).

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 10.28.2015

Page 4 of 10

Revision date: 11.04.2020

### CleanAir™ Anesthesia Absorbing Canister

#### Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

### SECTION 7: Handling and storage

#### Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Use dust explosion proof electrical equipment and lighting. Avoid dust generation and dispersal of dust in air. Dust deposits should not be allowed to accumulate on surfaces. Clean dust residues at regular intervals. Do not use brooms or compressed air hoses to clean surfaces. Only use vacuums approved for dust collection. Use only non-sparking tools. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions such as electrical grounding and bonding or inner atmospheres. Keep containers tightly closed and grounded when not in use. Workers whose clothing may have been contaminated should change into non-contaminated clothing before leaving the work premises. Contaminated clothing should be segregated in such a manner so that there is no direct personal contact by personnel who handle, dispose or clean the clothing. Contaminated clothing should not be allowed out of the workplace. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10).

#### Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Outside or detached storage is preferred. Inside storage should be in a standard flammable storage cabinet. Store away from incompatible materials (See Section 10).

### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

| Country (Legal Basis)     | Substance | Identifier | Permissible concentration   |
|---------------------------|-----------|------------|---|
| ACGIH                     | Carbon    | 7440-44-0  | 8-Hour TWA: 2 mg/m <sup>3</sup> (Graphite, respirable fraction)                 |
| NIOSH                     | Carbon    | 7440-44-0  | REL-TWA: 2.5 mg/m <sup>3</sup> (Graphite (Natural), respirable, 10 h)           |
|                           | Carbon    | 7440-44-0  | IDLH: 1250 mg/m <sup>3</sup>  |
| OSHA                      | Carbon    | 7440-44-0  | 8-Hour TWA-PEL: 15 mg/m <sup>3</sup> (Graphite (Synthetic), total dust)         |
|                           | Carbon    | 7440-44-0  | 8-Hour TWA-PEL: 5 mg/m <sup>3</sup> (Graphite (Synthetic), respirable fraction) |
| United States(California) | Carbon    | 7440-44-0  | 8-Hour TWA-PEL: 2.5 mg/m <sup>3</sup> (Graphite (Natural), respirable Dust)     |
|                           | Carbon    | 7440-44-0  | 8-Hour TWA-PEL: 10 mg/m <sup>3</sup> (Graphite (Synthetic), total dust)         |
|                           | Carbon    | 7440-44-0  | 8-Hour TWA-PEL: 5 mg/m <sup>3</sup> (Graphite (Synthetic), respirable fraction) |

#### Biological limit values:

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 10.28.2015

Page 5 of 10

Revision date: 11.04.2020

### CleanAir™ Anesthesia Absorbing Canister

No biological exposure limits noted for the ingredient(s).

#### Information on monitoring procedures:

Not determined or not applicable.

#### Appropriate engineering controls:

This product is a combustible material which may be ignited by friction, heat, sparks or flames. It is recommended that all dust control equipment (such as local exhaust ventilation and material transport systems) involved in handling this product contain explosion relief vents or an explosion suppression system. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area. Keep static electricity under control, which includes the bonding and grounding of equipment. Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

#### Personal protection equipment

##### Eye and face protection:

Use safety glasses with side shields or goggles. Do not wear contact lenses when handling or processing this product. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

##### Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

##### Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

#### General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Contaminated clothing should be removed and separated for decontamination. Do not allow contaminated work clothing out of the workplace. Perform routine housekeeping.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

|                                     |                                  |
|-------------------------------------|----------------------------------|
| <b>Appearance</b>                   | Black granular solid             |
| <b>Odor</b>                         | Odorless                         |
| <b>Odor threshold</b>               | Not determined or not available. |
| <b>pH</b>                           | Not determined or not available. |
| <b>Melting point/freezing point</b> | 3550 °C / 6422 °F                |
| <b>Initial boiling point/range</b>  | Not determined or not available. |
| <b>Flash point (closed cup)</b>     | Not determined or not available. |

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 10.28.2015

Page 6 of 10

Revision date: 11.04.2020

### CleanAir™ Anesthesia Absorbing Canister

|   |                                  |
|---|----------------------------------|
| Evaporation rate                        | Not determined or not available. |
| Flammability (solid, gas)               | Not determined or not available. |
| Upper flammability/explosive limit      | Not determined or not available. |
| Lower flammability/explosive limit      | Not determined or not available. |
| Vapor pressure                          | Not determined or not available. |
| Vapor density                           | Not determined or not available. |
| Density                                 | Not determined or not available. |
| Relative density                        | (350 - 600) g/l                  |
| Solubilities                            | Insoluble in water               |
| Partition coefficient (n-octanol/water) | Not determined or not available. |
| Auto/Self-ignition temperature          | 450 °C / 842 °F                  |
| Decomposition temperature               | Not determined or not available. |
| Dynamic viscosity                       | Not determined or not available. |
| Kinematic viscosity                     | Not determined or not available. |
| Explosive properties                    | Not determined or not available. |
| Oxidizing properties                    | Not determined or not available. |

#### Other information

|             |       |
|-------------|-------|
| VOC content | < 1 % |
|-------------|-------|

### SECTION 10: Stability and reactivity

#### Reactivity:

Not reactive under recommended handling and storage conditions.

#### Chemical stability:

Stable under recommended handling and storage conditions.

#### Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

#### Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, static discharge, ignition sources, dust generation and accumulation and incompatible materials.

#### Incompatible materials:

Very strong oxidizers such as fluorine, chlorine trifluoride & potassium peroxide.

#### Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

#### Substance data:

| Name   | Route | Result                |
|--------|-------|-----------------------|
| Carbon | oral  | LD50 Rat: >2000 mg/kg |

#### Skin corrosion/irritation

**Assessment:** Based on available data, the classification criteria are not met.

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 10.28.2015

Page 7 of 10

Revision date: 11.04.2020

### CleanAir™ Anesthesia Absorbing Canister

**Product data:**

No data available.

**Substance data:** No data available.

**Serious eye damage/irritation**

**Assessment:**

Causes serious eye irritation.

**Product data:**

No data available.

**Substance data:**

| Name   | Result                         |
|--------|--------------------------------|
| Carbon | Causes serious eye irritation. |

**Respiratory or skin sensitization**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

**Carcinogenicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed.

**National Toxicology Program (NTP):** None of the ingredients are listed.

**OSHA Carcinogens:** Not applicable

**Germ cell mutagenicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

**Reproductive toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

**Specific target organ toxicity (single exposure)**

**Assessment:**

May cause respiratory irritation.

**Product data:**

No data available.

**Substance data:**

| Name   | Result                            |
|--------|-----------------------------------|
| Carbon | May cause respiratory irritation. |

**Specific target organ toxicity (repeated exposure)**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.



## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 10.28.2015

Page 8 of 10

Revision date: 11.04.2020

### CleanAir™ Anesthesia Absorbing Canister

**Substance data:** No data available.

#### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

#### Information on likely routes of exposure:

Ocular, dermal, inhalation and oral.

#### Symptoms related to the physical, chemical and toxicological characteristics:

See section 4 of this SDS.

#### Other information:

No data available.

### SECTION 12: Ecological information

#### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:**

| Name   | Result  |
|--------|---|
| Carbon | EC50 Pseudokirchneriella subcapitata: >100 mg/L (72 h)                    |
|        | EC50 Daphnia magna: >100 mg/L (48 h)                                      |
|        | EC50 Activated sludge of a predominantly domestic sewage: 1000 mg/L (3 h) |

#### Chronic (long-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Persistence and degradability

**Product data:** No data available.

**Substance data:**

| Name   | Result  |
|--------|---|
| Carbon | Carbon is chemically inert and as such will not biodegrade further. |

#### Bioaccumulative potential

**Product data:** No data available.

**Substance data:**

| Name   | Result   |
|--------|--|
| Carbon | The bioaccumulative study is waived for this compound as it can be considered to behave as an inorganic substance. |

#### Mobility in soil

**Product data:** No data available.

**Substance data:** No data available.

#### Results of PBT and vPvB assessment

**Product data:**

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

**Substance data:**

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 10.28.2015

Page 9 of 10

Revision date: 11.04.2020

### CleanAir™ Anesthesia Absorbing Canister

#### PBT assessment:

|        |                           |
|--------|---------------------------|
| Carbon | The substance is not PBT. |
|--------|---------------------------|

#### vPvB assessment:

|        |                            |
|--------|----------------------------|
| Carbon | The substance is not vPvB. |
|--------|----------------------------|

**Other adverse effects:** No data available.

### SECTION 13: Disposal considerations

#### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

#### Contaminated packages:

Not determined or not applicable.

### SECTION 14: Transport information

#### United States Transportation of dangerous goods (49 CFR DOT)

|                               |               |
|-------------------------------|---------------|
| UN number                     | Not regulated |
| UN proper shipping name       | Not regulated |
| UN transport hazard class(es) | None          |
| Packing group                 | None          |
| Environmental hazards         | None          |
| Special precautions for user  | None          |

#### International Maritime Dangerous Goods (IMDG)

|                               |               |
|-------------------------------|---------------|
| UN number                     | Not regulated |
| UN proper shipping name       | Not regulated |
| UN transport hazard class(es) | None          |
| Packing group                 | None          |
| Environmental hazards         | None          |
| Special precautions for user  | None          |

#### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

|                               |               |
|-------------------------------|---------------|
| UN number                     | Not regulated |
| UN proper shipping name       | Not regulated |
| UN transport hazard class(es) | None          |
| Packing group                 | None          |
| Environmental hazards         | None          |
| Special precautions for user  | None          |

### SECTION 15: Regulatory information

#### United States regulations

**Inventory listing (TSCA):** All ingredients are listed or exempt.

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 10.28.2015

Page 10 of 10

Revision date: 11.04.2020

### CleanAir™ Anesthesia Absorbing Canister

**Export notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 extremely hazardous substances:** None of the ingredients are listed.

**SARA Section 313 toxic chemicals:** None of the ingredients are listed.

**CERCLA:** None of the ingredients are listed.

**RCRA:** None of the ingredients are listed.

**Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

#### Massachusetts Right to Know:

|           |        |        |
|-----------|--------|--------|
| 7440-44-0 | Carbon | Listed |
|-----------|--------|--------|

#### New Jersey Right to Know:

|           |        |        |
|-----------|--------|--------|
| 7440-44-0 | Carbon | Listed |
|-----------|--------|--------|

#### New York Right to Know:

|           |        |               |
|-----------|--------|---------------|
| 7440-44-0 | Carbon | Not<br>Listed |
|-----------|--------|---------------|

#### Pennsylvania Right to Know:

|           |        |        |
|-----------|--------|--------|
| 7440-44-0 | Carbon | Listed |
|-----------|--------|--------|

**California Proposition 65:** None of the ingredients are listed.

### SECTION 16: Other information

**Abbreviations and Acronyms:** None

#### Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 2-0-0

**HMIS:** 2-0-0

**Initial preparation date:** 10.28.2015

**Revision date:** 11.04.2020

#### Revision Notes:

| Revision Date | Notes   |
|---------------|---|
| 2020-11-04    | Revision 2: Product was reclassified using updated ingredient information. Product previously classified as non-hazardous is now Eye Irritant Category 2, Specific Target Organ Toxicity SE Category 3 (Respiratory irritation) and Combustible Dust. |

**End of Safety Data Sheet**