

MATERIAL SAFETY DATA SHEET

ACTIDOSE-AQUA

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SECTION 1 - PRODUCT IDENTIFICATION AND HAZARDOUS COMPONENTS

PRODUCT: Actidose-Aqua

SYNONYMS: Activated Charcoal Suspension

MOLECULAR FORMULA: Mixture MOLECULAR WEIGHT: N/A

| <u>INGREDIENT (CAS #)</u> | <u>%</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> |
|--------------------------------|----------|-----------------|-----------------------------|
| Activated Charcoal (7440-44-0) | 16 | N/A | N/A |
| Sucrose (57-50-1) | * | N/A | 10 mg/m ³ (dust) |
| Propylene glycol (57-55-6) | * | N/A | N/A |
| Glycerin (56-81-5) | * | N/A | 10 mg/m ³ (mist) |
| Purified water | * | N/A | N/A |
| Citric acid | * | N/A | N/A |

*Specific amount is considered proprietary information.

SECTION 2 - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: 95-98°C VAPOR PRESSURE: N/A

MELTING POINT: N/A VAPOR DENSITY: N/A

SPECIFIC GRAVITY: >1 EVAPORATION RATE: N/A
(WATER = 1) (BUTYL ACETATE = 1)

WATER SOLUBILITY: Miscible WATER REACTIVE: No.

APPEARANCE AND ODOR: Smooth, black, somewhat viscous suspension with a slightly sweet taste. Odorless.

SECTION 3 - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD): N/A AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus and full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS: As with any organic material, this product may emit toxic carbon monoxide and dioxide fumes if heated to decomposition (as under fire conditions).

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable () Unstable ()

INCOMPATIBILITY (MATERIALS TO AVOID): None known.

HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes if heated to decomposition.

HAZARDOUS POLYMERIZATION: May Occur () Will Not Occur ()

SECTION 5 - HEALTH HAZARD DATA

NOTE: See package insert for more information.

TOXICITY: LD₅₀: Oral (rat) = >10 gm/kg (charcoal)

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| CARCINOGEN LISTED BY: | NTP | Yes (<input type="checkbox"/>) | No (<input checked="" type="checkbox"/>) |
| | IARC | Yes (<input type="checkbox"/>) | No (<input checked="" type="checkbox"/>) |
| | OSHA | Yes (<input type="checkbox"/>) | No (<input checked="" type="checkbox"/>) |
| | Other | Yes (<input type="checkbox"/>) | No (<input checked="" type="checkbox"/>) |

ROUTES OF ENTRY: Ingestion

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

INHALATION: Does not normally present an inhalation hazard.

EYE CONTACT: May cause contact irritation.

SKIN CONTACT: May cause irritation in sensitive individuals.

INGESTION: Excessive ingestion of this material may cause constipation and/or irritation of the gastrointestinal tract. Black stools will be present after ingestion.

CHRONIC EFFECTS OF OVEREXPOSURE: May cause dehydration and gastrointestinal irritation.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Hypersensitization to any ingredient. Dehydration. This product should only be used in a medical facility or under the supervision of a physician or poison information center.

OTHER PRECAUTIONS TO CONSIDER: Great care should be taken to avoid aspiration of this product by patient. Introduction of activated charcoal into the lungs can cause serious complications and even death.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: If victim is not breathing, give artificial respiration. If breathing is difficult, give oxygen. In any case, seek immediate medical assistance. See Other Precautions To Consider above.

EYE CONTACT: Flush with water for 15 minutes. If irritation develops or persists, seek medical attention.

SKIN CONTACT: Wash with soap and water. If irritation develops or persists, seek medical attention.

INGESTION: Seek medical attention or contact a poison control center immediately.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: No special respiratory protection required under normal use conditions (see Other Precautions To Consider in Section 5 above).

PROTECTIVE GLOVES: Rubber or latex recommended.

EYE PROTECTION: Safety glasses or goggles should be worn to avoid possible eye contact. Avoid wearing contact lenses when working with this or any chemical due to the possibility of increased severity of eye injury.

VENTILATION: No special ventilation required under normal use conditions.

OTHER PROTECTIVE EQUIPMENT: Appropriate laboratory apparel.

HYGIENIC WORK PRACTICES: Wash thoroughly after handling and wash contaminated clothing before reuse.

SECTION 7 - HANDLING AND STORAGE PRECAUTIONS

HANDLING PRECAUTIONS: Avoid contact with eyes, skin or clothing. Wash thoroughly after handling and wash any contaminated clothing before reuse.

STORAGE PRECAUTIONS: Avoid exposure to temperatures below 45°F and above 90°F.

SECTION 8 - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL OR DISCHARGE: Wear all protective gear including goggles and gloves. Contain spill, mop up with an absorptive material and place in tight container for disposal. Wash spill area with soap and water. Wash thoroughly after handling and wash clothing and protective gear before reuse.

WASTE DISPOSAL METHOD: Dispose of in accordance with all local, state, federal and environmental regulations.

SECTION 9 - DISCLAIMER

The information contained in this Material Safety Data Sheet has been compiled from reliable sources and is believed to be correct as of the date issued. It is the responsibility of the user to determine the appropriateness and applicability to their situation. Paddock Laboratories, Inc. disclaims any expressed or implied warranty as to the accuracy of the above information and shall not be held liable for any direct, incidental, or consequential damages from use or reliance on the above information.

DEFINITIONS OF ABBREVIATIONS USED:

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| ACGIH: | American Conference of Governmental Industrial Hygienists |
| CAS: | Chemical Abstract Service |
| IARC: | Internal Agency for Research on Cancer |
| IDLH: | Immediately Dangerous to Life or Health level |
| LC ₅₀ : | Median Lethal Concentration |
| LD ₅₀ : | Median Lethal Dose |
| MSHA: | Mine Safety and Health Administration |
| N/A: | Not available |
| NIOSH: | National Institute for Occupational Safety and Health |
| NTP: | National Toxicology Program |
| OSHA: | Occupational Safety and Health Administration |
| PEL: | Permissible Exposure Limit |
| STEL: | Short Term Exposure Limit |
| TLV: | Threshold Limit Value |
| TWA: | Time Weighted Average |