

Safety Data Sheet

Issuing date no data available

Revision Date 13-Jul-2015

Version 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product name (-)-Epinephrine

UN/ID No 2811

Recommended use For research use only

Supplier Address Abcam Inc
1 Kendall Square, Ste 341
Cambridge, MA 02139-1517
USA
Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free)
Fax: (866) 739-9884 or (866) 457-9616 (both US toll free)

E-mail address technical@abcam.com

Emergency telephone Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free) - Monday-Friday 8am-9pm EST

2. HAZARDS IDENTIFICATION

GHS - Classification

| | |
|---------------------------------------|------------|
| Acute oral toxicity | Category 3 |
| Acute dermal toxicity | Category 2 |
| Acute inhalation toxicity - dust/mist | Category 3 |

GHS Label elements, including precautionary statements



Signal Word

Danger

Hazard statements

H301 - Toxic if swallowed
H310 - Fatal in contact with skin
H331 - Toxic if inhaled

Precautionary Statements - EU (§28, 1272/2008)

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
 P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
 P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water
 P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
 P262 - Do not get in eyes, on skin, or on clothing
 P280 - Wear protective gloves/ eye protection/ face protection
 P361 - Remove/ Take off immediately all contaminated clothing
 P264 - Wash face, hands and any exposed skin thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product
 P271 - Use only outdoors or in a well-ventilated area
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
 P330 - Rinse mouth
 P501 - Dispose of contents/ container to an approved waste disposal plant
 P405 - Store locked up
 P363 - Wash contaminated clothing before reuse

Other information

Caution - substance not yet tested completely

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

| Chemical Name | CAS-No | Weight % | Classification (Reg. 1272/2008) |
|-----------------|---------|----------|---|
| (-)-Epinephrine | 51-43-4 | >100 | Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 3 (H331) |

For the full text of the H-Statements mentioned in this Section, see Section 16

4. FIRST AID MEASURES

| | |
|-----------------------------------|---|
| General advice | Immediate medical attention is required. |
| Eye contact | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately. |
| Inhalation | Move to fresh air. If symptoms persist, call a physician. |
| Ingestion | Rinse mouth. Do not induce vomiting without medical advice. If symptoms persist, call a physician. |
| Notes to physician | Treat symptomatically. |
| Protection of first-aiders | Use personal protective equipment. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

5. FIRE-FIGHTING MEASURES

Flammable properties Not flammable.

| | |
|--|--|
| Flash point | not determined |
| Suitable extinguishing media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Explosion Data | |
| Sensitivity to Mechanical Impact | none. |
| Sensitivity to Static Discharge | none. |
| Protective equipment and precautions for firefighters | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|---|
| Personal precautions | Use personal protective equipment. Avoid contact with the skin and the eyes. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
| Environmental precautions | Try to prevent the material from entering drains or water courses. |
| Methods for containment | Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal. |
| Methods for cleaning up | Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal. |
| Other information | Refer to protective measures listed in sections 7 and 8. |

7. HANDLING AND STORAGE

| | |
|--|--|
| Advice on safe handling | Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. |
| Technical measures/Storage conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|--------------------------------------|---|
| Exposure Guidelines | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
| Engineering measures | Showers Eyewash stations Ventilation systems |
| Personal protective equipment | |
| Eye/face protection | Tightly fitting safety goggles. |
| Skin and body protection | No special protective equipment required. |
| Respiratory protection | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| Hygiene measures | When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------------------|---------------------------|------------------------------------|---------------------------|
| Appearance | No information available. | Odor | No information available. |
| Odor Threshold | No information available | Physical State @20°C | Solid |
| pH | No information available | Autoignition temperature | No information available |
| Flash point | No information available | Boiling point/boiling range | No information available |
| Decomposition temperature | No information available | Flammability Limits in Air | No information available |
| Melting point/range | No information available | | |
| Explosion limits | No information available | | |
| Specific Gravity | no data available | Water Solubility VALUE | Slightly soluble |
| solubility | Ethanol. | Evaporation rate | No information available |
| Vapor density | no data available | VOC Content(%) | not applicable |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Stability | Stable under recommended storage conditions. |
| Incompatible products | None known based on information supplied. |
| Conditions to avoid | None known based on information supplied. |
| Hazardous decomposition products | Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrogen oxides (NO _x). |
| Hazardous polymerization | Hazardous polymerization does not occur. |

11. TOXICOLOGICAL INFORMATION

Acute toxicity

| | |
|----------------------------|--|
| Product Information | Toxic by inhalation, in contact with skin and if swallowed |
| Inhalation | Toxic by inhalation |
| Skin contact | Very toxic in contact with skin |
| Ingestion | Toxic if swallowed |

Chronic toxicity

| | |
|-----------------------------|-------------|
| Target Organ Effects | None known. |
|-----------------------------|-------------|

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

13. DISPOSAL CONSIDERATIONS

| | |
|-------------------------------|---|
| Waste disposal methods | This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements. |
| Contaminated packaging | Do not re-use empty containers. |

14. TRANSPORT INFORMATION

| | |
|-----------------------------|---|
| DOT | Excepted Quantity |
| Proper shipping name | Toxic solid, organic, n.o.s ((-)-Epinephrine) |
| Hazard class | 6.1 |
| UN/ID No | 2811 |
| Packing group | II |
| IATA | Excepted Quantity |
| UN/ID No | 2811 |
| Proper shipping name | Toxic solid, organic, n.o.s ((-)-Epinephrine) |
| Hazard class | 6.1 |
| Packing group | II |
| ADR | Excepted Quantity |
| Proper shipping name | Toxic solid, organic, n.o.s ((-)-Epinephrine) |
| Hazard class | 6.1 |
| UN/ID No | 2811 |
| Packing group | II |

15. REGULATORY INFORMATION**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

| | |
|--|----|
| Acute Health Hazard | no |
| Chronic Health Hazard | no |
| Fire Hazard | no |
| Sudden Release of Pressure Hazard | no |
| Reactive Hazard | no |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations**International Regulations****WHMIS Note:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION**Full text of H-Statements referred to under sections 2 and 3**

H301 - Toxic if swallowed H310 - Fatal in contact with skin H331 - Toxic if inhaled

Hazard statements

H301 - Toxic if swallowed

H310 - Fatal in contact with skin

H331 - Toxic if inhaled

Revision Date

13-Jul-2015

Revision Note

No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release 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 or in any process, unless specified in the text.

End of MSDS