



Material Safety Data Sheet

Product Name: Human Phospho-Smad3 (S423/S425) Polyclonal Ab

Reviewed on: 13 June 2011

1. Identification of Substance:

- **GHS Product identifier:**
- **Other means of identification:** Catalog Number: AB3226
- **Application of the substance / the preparation:**
- **Manufacturer/Supplier:**
R&D Systems Inc.
614 McKinley Place N.E.
Minneapolis, MN 55413
USA
1-800-328-2400
- **Emergency information:** 1-800-328-2400 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION, or ACCIDENT.

2. Hazards Identification:

- **Classification:** N/A. The classification was made according to the latest edition of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).
- **Emergency overview:** —
- **Special Hazards:** N/A
- **Routes of exposure:**
 - Inhalation
 - Ingestion
 - Skin

3. Information on Ingredients:

Contains	EINECS	CAS No.	Content %	Classification
Sodium Azide	247-852-1	26628-22-8	<0.1%	Not hazardous at this concentration

4. First Aid Measures:

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly. Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Rinse mouth with water. Seek medical attention and appropriate follow-up.

5. Fire Fighting Measures:

- **Suitable extinguishing agents:** The product is non-flammable.
- **Protective equipment:** No special measures required.

6. Accidental Release Measures:

- **Person-related safety precautions:** Use standard laboratory practices including proper personal protective equipment.
- **Measures for environmental protection:** N/A.
- **Measures for containment and cleaning:**
 - Absorb liquid components with liquid-binding material.
 - Pick up mechanically.
 - Dispose contaminated material as waste according to item 13.
- **Additional information:** No dangerous substances are released.



Material Safety Data Sheet

Product Name: Human Phospho-Smad3 (S423/S425) Polyclonal Ab

Reviewed on: 13 June 2011

7. Handling and Storage:

- **Precautions for safe handling:** No special measures required. No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage:** None, according to product specifications.

8. Exposure Controls and Personal Protection:

- **Control parameters:** None known.
- **Appropriate engineering controls:** Follow usual standard laboratory practices. The following personal protection is recommended:
 - Gloves made of latex, nitrile rubber, e.g.
 - Safety glasses
 - Protective work clothing.

9. Physical and Chemical Properties:

- **Appearance:**
- **Odor:** Little to none.
- **pH:** Neutral
- **Melting point/freezing point:** Undetermined.
- **Boiling point/Boiling range:** Undetermined.
- **Flash point:** No data.
- **Evaporation rate:** Undetermined.
- **Flammability:** No data.
- **Vapor pressure/density:** No data.
- **Relative Density:** Undetermined.
- **Solubility in/Miscibility with Water:**
- **Auto igniting:** Product is not self igniting.
- **Viscosity:** Undetermined.

10. Stability and Reactivity:

- **Reactivity:** This product contains low concentrations of Sodium Azide <0.1% (w/w). Sodium Azide can form explosive compounds with heavy metals which, with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.
- **Chemical Stability:** Stable under normal ambient and storage and handling temperatures.
- **Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications.
- **Incompatible materials to be avoided:** Metals and metallic compounds.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11. Toxicological Information:

- **Acute toxicity:** No toxic effect known.
- **Skin irritant effect:** No irritant effect known.
- **Eye irritant effect:** No irritant effect known.
- **Sensitization:** No sensitizing effects known.
- **Mutagenicity:** No effect known.
- **Carcinogenicity:** No effect known.
- **Reproductive toxicity:** No toxic effect known.
- **Additional toxicological information:** The product is not subject to classification according to the latest edition of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS): When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.



Material Safety Data Sheet

Product Name: Human Phospho-Smad3 (S423/S425) Polyclonal Ab

Reviewed on: 13 June 2011

12. Ecological Information:

- **Ecotoxicity:** Undetermined.
- **Biodegradability:** Undetermined.
- **Mobility:** Undetermined.

13. Disposal Considerations:

- **Disposal methods:** Dispose of waste in accordance to applicable national, regional, or local regulations.

14. Transport Information:

- **UN Number:** None
- **DOT regulations:** - **Hazard class:** None
- **Land transport ADR/RID (cross-border):** Not regulated.
- **Maritime transport IMDG:** Not regulated.
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:** Not regulated.
- **Transport/Additional information:** Not dangerous according to the above specifications.

15. Regulations:

US Federal and State Regulations

- **CERCLA/SARA 302:** Sodium Azide is listed.
- **CERCLA/SARA 304:** Sodium Azide is listed.
- **SARA 313:** Sodium Azide is listed.
- **TSCA (Toxic Substances Control Act):** Sodium Azide is listed.
- **California Proposition 65:** Sodium Azide is not listed on California's listing of known or potential carcinogens.

EU Labeling Classification

This product is not classified.

Canada

This product is exempt from WHMIS requirements.

16. Other Information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.