



Safety Data Sheet

Product Name: Flow Cytometry Staining Buffer (1X)

Reviewed on: 13 March 2012

1. Identification of Substance:

- **GHS Product identifier:** Flow Cytometry Staining Buffer (1X)
- **Other means of identification: Catalog Number:** FC001
- **Application of the substance / the preparation:** For Research Use Only
- **Manufacturer/Supplier:**
R&D Systems Inc.
614 McKinley Place N.E.
Minneapolis, MN 55413
USA
1-800-343-7475
- **Emergency information:** 1-800-343-7475 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION, or ACCIDENT.

2. Hazards Identification:

- **Classification:**
According to the Regulation (EC) No1272/2008: **Chronic aquatic toxicity (Category 3)**.
According to European Directive 67/548/EEC as amended: Harmful if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Label Elements:** Pictogram: none Signal Word: none
- **Hazard Statement(s):** H412 Harmful to aquatic life with long lasting effects.
- **Precautionary Statement(s):** P273 Avoid release to the environment.
IF SWALLOWED: Wash gently with plenty of soap and water. Immediately call a POISON CONTROL Center or physician.
IF ON SKIN: Remove immediately all contaminated clothing. Wash contaminated clothing before reuse. Call a POISON CONTROL center or physician.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CONTROL center or physician.
- **Hazard Symbol(s):** Xn Harmful
- **R-phrases(s):** R22 Harmful if swallowed, R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **S-phrases(s):** S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.
- **Other Hazards:** Handle as if capable of transmitting infectious agents.
 - **Routes of exposure:** Inhalation, ingestion, skin

3. Information on Ingredients:

Contains	EINECS	CAS No.	Content %
Sodium Azide	247-852-1	26628-22-8	0.1 – 0.5%

4. First Aid Measures:

- **After inhalation:** Supply fresh air. If not breathing give artificial respiration. Consult a physician.
- **After skin contact:** Remove contaminated clothing. Immediately wash with soap and water and rinse thoroughly. Consult a physician if irritation persists.
- **After eye contact:** Rinse opened eye for several minutes under running water. Consult a physician.
- **After swallowing:** Rinse mouth with water. Seek medical attention and appropriate follow-up. Never give anything by mouth to an unconscious person.



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5. Fire Fighting Measures:

- **Suitable extinguishing agents:** Any means suitable for extinguishing the surrounding area.
- **Specific hazards arising from the chemical:** Dangerous decomposition is not anticipated.
- **Protective equipment:** Wear appropriate protective clothing and a self-contained breathing apparatus if necessary.

6. Accidental Release Measures:

- **Person-related safety precautions:** Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
- **Measures for environmental protection:** Prevent further spillage or leakage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- **Measures for containment and cleaning:**
 - Absorb liquid components with inert liquid-binding material.
 - Pick up mechanically.
 - Dispose contaminated material as waste according to item 13.

7. Handling and Storage:

- **Precautions for safe handling:** Store in a well ventilated place. Keep container tightly closed.
- **Information about protection against explosions and fires:** Normal measures for preventive fire protection.
- **Conditions for safe storage:** None, according to product specifications. Store in a cool place. Keep container tightly closed in a dry and well ventilated place.

8. Exposure Controls and Personal Protection:

- **Components: Sodium Azide CAS-No.: 26628-22-8**
 - Value:** STEL CEIL: 0.29 mg/m³ (NaN₃) CEIL: 0.11 ppm (HN₃) ; **UK. EH40 WEL- Workplace Exposure Limits:** Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. **European Commission Directive 2000/39/EC:** Identifies the possibility of significant uptake through the skin indicative.
 - Value:** TWA 0.1 mg/m³; **UK. EH40 WEL- Workplace Exposure Limits:** Can be absorbed through the skin. The assigned substance are those for which there are concerns that dermal absorption will lead to systemic toxicity. **European Commission Directive 2000/39/EC:** Identifies the possibility of significant uptake through the skin indicative.
- **Appropriate engineering controls:** Follow usual standard laboratory practices. The following personal protection is recommended:
 - Respiratory Protection** – Respiratory Protection not required. For nuisance exposures use respirators and components approved under appropriate government standards.
 - Hand Protection** – Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
 - Eye Protection** – Use equipment for eye protection tested and approved under appropriate government standards.
 - Skin and Body Protection** – Use impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
 - Hygiene Measures** – Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.



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9. Physical and Chemical Properties:

- **Appearance:** Undetermined
- **Odor:** Little to none.
- **pH:** Undetermined
- **Melting point/freezing point:** Undetermined
- **Boiling point/Boiling range:** Undetermined
- **Flash point:** Undetermined
- **Evaporation rate:** Undetermined
- **Flammability:** Undetermined
- **Vapor pressure/density:** Undetermined
- **Relative Density:** Undetermined
- **Solubility in/Miscibility with Water:** Soluble
- **Auto igniting:** Product is not self igniting.
- **Viscosity:** Undetermined

10. Stability and Reactivity:

- **Reactivity:** 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 buildup 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:** Hazardous decompositions formed under fire conditions. No dangerous decomposition products known.

11. Toxicological Information:

- **Acute toxicity:** **Oral LD50 Oral:** 27 mg/kg (mouse and rat); **Inhalation LD50:** 32 mg/m³ (mouse) and 37 mg/m³ (rat); **Skin LD50:** 20 mg/kg (rabbit) and 50 mg/kg (rat)
- **Skin corrosion / irritation:** May be harmful if absorbed through the skin. May cause skin irritation.
- **Serious eye damage / irritation:** May cause eye irritation.
- **Respiratory or skin sensitization:** No sensitizing effects known.
- **Germ cell mutagenicity:** No effect known.
- **Carcinogenicity:** No effect known.
- **Reproductive toxicity:** No toxic effect known.
- **STOT-single exposure:** Data not available
- **STOT-repeated exposure:** Data not available.
- **Aspiration hazard:** May be harmful if inhaled. May cause respiratory tract irritation.

Additional Information: RTECS: Not available

12. Ecological Information:

- **Ecotoxicity:** Harmful to aquatic life. LC50, 96 Hrs, Fish *Lepomis macrochirus* - 0.68 mg/L; EC50, 48 Hrs, *Daphnia pulex* - 4.2 mg/L
- **Persistence and degradability:** No data available
- **Bioaccumulative potential:** No data available
- **Mobility in soil:** Sodium azide is soluble in water.
- **Other adverse effects:** Sodium azide is toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. However, at the concentrations present this product does not need to be classified as hazardous for the environment and the effects are not expected to be significant.



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13. Disposal Considerations:

- **Disposal methods:** Dispose of waste in accordance to applicable national, regional, or local regulations. Contact a licensed professional waste disposal service to dispose of this material.
- **Contaminated packaging:** Dispose of as unused product.

14. Transport Information:

- **ADR/RID** UN-Number: 3082 Class: 9 Packing Group: III
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
- **IMDG** UN-Number: 3082 Class: 9 Packing Group: III EMS-No.: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Marine Pollutant: Marine Pollutant
- **IATA** UN-Number: 3082 Class: 9 Packing Group: III
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Further Information: Excepted quantity for single packagings and combination packagings containing inner packagings with Dangerous Goods < 30 mL for Liquids or < 30 kg for solids.

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.

16. Other Information:

Text of H-codes and R-phrases in Section 3:

H300	Fatal if swallowed
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH032	Contact with acids liberates very toxic gas.
T+	Very toxic
N	Dangerous for the environment
R28	Very toxic if swallowed
R32	Contact with acids liberates very toxic gas.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.