



# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** ZAPR™ Red Blood Cell Lysing Buffer  
**Synonym:** ZAPR  
**Product Use:** Lysis of red blood cells in processing of blood, cell or tissue samples  
**Product Codes:** ZAPR-100, ZAPR-400

**Manufacturer:** INCELL Corporation LLC  
**Address:** 12734 Cimarron Path  
**City/State/Zip:** San Antonio, TX 78249  
**Phone:** 800.364.1765; 210.877.0100  
**Email:** info@incell.com  
**FAX:** 210.877.0200  
**Emergency Phone:** Toll-Free: 800.364.1765

**Distributor:** INCELL Corporation LLC  
**Address:** 12734 Cimarron Path  
**City/State/Zip:** San Antonio, TX 78249  
**Phone:** 800.364.1765; 210.877.0100  
**Email:** info@incell.com  
**FAX:** 210.877.0200  
**Emergency Phone:** Toll Free: 800.364.1765

## 2. HAZARDS IDENTIFICATION

**GHS Classification:** None  
**GHS Label:** Pictogram: NA Signal Word: NA Precautionary Statements: NA  
WHMIS Classification: NA Hazards Not Otherwise Classified (HNOC) not covered by GHS: NA

**Hazard Statements:** May cause skin or eye irritation; May irritate mucosa if inhaled or digested.

**Precautionary Statements:** Wash hands after handling. Rinse skin and copiously rinse eyes if exposed. If irritation persists or worsens, get medical advice or attention. The toxicological properties of this solution have not been fully investigated.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Component name:** ZAPR™ Red Blood Cell Lysing Buffer  
**Percent:** 100% (w/v) **CAS#:** 12125-02-9 **SARA 313:** No

The product formulation is proprietary. It contains no substances which, at their given use concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution. However, certain US territories and/or states require that ammonium chloride be listed as summarized below.

**Component name:** Ammonium Chloride  
**Percent:** <1.0% (w/v) **CAS#:** 12125-02-9 **SARA 313:** No

## 4. FIRST AID MEASURES

**General advice:** In the case of accident or if you feel unwell, seek medical advice.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration, and call a physician immediately.

**Skin contact:** Rinse immediately with plenty of water, seek medical advice if needed.

**Ingestion:** Do not induce vomiting without medical advice. If conscious and alert, wash out mouth with plenty of water.

**Eye contact:** In the case of contact with eyes, rinse immediately with plenty of water. Seek medical advice, if needed.

**Notes to Physician or First Aid Responders:** Treat symptomatically and supportively as needed.

**Medical conditions aggravated by exposure:** None known

## 5. FIRE FIGHTING MEASURES

**Flammability:** Non-flammable **Flash point:** N/A **Auto-ignition temperature:** N/A

**Suitable extinguishing media:** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

**Special protective equipment for firefighters:** Use standard measures.

**Specific hazards:** May emit small amounts of toxic fumes under fire conditions.

**Unusual hazards:** None known; not a fire or explosion hazard.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Aqueous solution has no known hazards. Use of personal protective equipment, such as gloves and a long-sleeved lab coat, as standard handling procedures for use of the product.

**Environmental precautions:** Aqueous solution has no known hazards. If product is added to drains it can be done safely, usually with dilution by adding water upon discard of the product.



**Spills and methods for cleaning up:** Can use standard absorbent toweling followed by trash discard, or may add absorbent, non-combustible material to spill, such as earth, sand or vermiculite. Sweep up and shovel into suitable disposal containers.

## 7. HANDLING AND STORAGE

**Storage:** Store at ambient temperatures in a dry well-ventilated area.

**Handling:** Aqueous solution has no known handling hazards. Handle this product aseptically when in use. Wash hands after use. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Do not ingest or inhale.

**Safe handling advice:** No special safety handling is required. Wear personal protective equipment (gloves and lab coat or gown with long sleeves) and handle aseptically in a biosafety hood.

**Incompatible products:** Peroxides. Sodium hypochlorite. Halogenated compounds.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** NA    **Ventilation:** NA    **Exposure Guidelines:** Wash exposed areas thoroughly.

### PERSONAL PROTECTIVE EQUIPMENT

**Respiratory protection:** Likely will not be needed. Breathing apparatus only if aerosol or dust is formed.

**Hand protection:** Compatible gloves for aqueous laboratory materials use.

**Skin and body protection:** No special safety handling is required. Wash exposed areas with soap and water. Usual safety precautions (gloves and lab coats or long-sleeved gowns) while handling the product for cell or tissue transport and in cell culture applications should provide adequate protection against this potential effect. Wash contaminated clothing before re-use.

**Eye protection:** No special safety handling is required. Hood with safety glass, glasses or safety glasses/goggles with side-shields should provide adequate protection.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash with soap and water after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance/Physical State:</b> Clear Liquid	<b>Sterility:</b> Tests for microbial growth and mycoplasma are negative	<b>pH:</b> 7.2 to 7.6
<b>Molecular Weight:</b> NA	<b>Density:</b> NA	<b>Vapor density:</b> NA
<b>Melting point/range:</b> N/A	<b>Vapor pressure:</b> NA	<b>Solubility (in water):</b> Soluble
<b>Boiling point/range:</b> NA	<b>Evaporation rate:</b> NA	<b>Flash point:</b> NA
<b>Freezing Point:</b> -4°C	<b>Odor:</b> Odorless	<b>Autoignition temperature:</b> NA

## 10. STABILITY AND REACTIVITY

**Reactivity:** NA

**Stability:** Stable under recommended storage conditions at room temperatures.

**Hazardous reactions:** No data available.

**Hazardous decomposition products:** May emit small amounts of toxic fumes under fire conditions.

**Materials to avoid:** Peroxides, sodium hypochlorite, and halogenated compounds.

**Conditions to avoid:** No special conditions identified.

**Polymerization:** N/A

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** No data available.

**Chronic toxicity:** No data available.

**Local effects:** No data available.

**Specific effects:** No data available.

**Primary irritation:** No data available.

**Carcinogenic effects:** No data available.

**Mutagenic effects:** No data available.

**Reproductive toxicity:** No data available.

## 12. ECOLOGICAL INFORMATION

**Mobility:** No data available.

**Bioaccumulation:** No data available.

**Ecotoxicity effects:** No data available.

**Aquatic toxicity:** No data available.



**13. DISPOSAL CONSIDERATIONS**

**Waste from residues / unused products:** Waste disposal is done with non-hazardous materials in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local waste regulatory authority.  
**Contaminated packaging:** Do not re-use empty containers

**14. TRANSPORT INFORMATION**

**DOT**    **Proper shipping name:** ZAPR™  
**UN/Id No:** N/A; Not regulated.  
**TDG (Canada):** N/A; Not regulated.  
**Hazard class:** Non-controlled.  
**Hazard Classifications** Not Applicable.  
**PIH:** Not PIH.  
**IATA:** Non-hazardous for air transport.

**15. REGULATORY INFORMATION**

ZAPR™ is on INCELL's medical devices listed in its FDA Medical Device Manufacturer Registration.

**USA Classification and Product Information**

Chemical Name	TSCA
Ammonium chloride    12125-02-9 (0.826 g/100 mL)	Listed

Include statements as possible eye and skin irritant if in powder form in product information.

**International Regulations**

**USA SARA Listed:** No  
**Canada WHMIS Classification:** No

**U.S. State Regulations:**

Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
Ammonium chloride	Listed	Listed	Listed	-	Listed

**16. OTHER INFORMATION**

**Disclaimer:** For use only as directed. Not for household or other uses.

**Warranty:** The information and recommendations contained herein are believed to be correct but does not purport to be all-inclusive and should only be used as a guide based on our present state of knowledge with regard to appropriate safety precautions and use of the product. INCELL shall not be held liable with regard to any damage from the handling or use of the product NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. INCELL assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of this product or these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

**End of Safety Data Sheet**