



SAFETY DATA SHEET

RNA Removal Solution

According to Regulation (EC) No 1907/2006

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name RNA Removal Solution
 Product No 323748

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses For Research Use Only. Not for diagnostic use.

1.3 Details of the supplier of the safety data sheet

Company: Advanced Cell Diagnostics Telephone: 1-800-343-7475
 7707 Gateway Blvd. Fax: 1-612-656-4400
 Newark, CA 94560 Internet: www.acdbio.com
 Tel: (510) 576-8800
 Email address info@acdbio.com

Canada: 21 Canmotor Ave. Telephone: 1-855-668-8722
 Toronto, ON M8Z4E6 Canada Fax: 902-827-6402
 Email address: Canada.inquiries@bio-techne.com

United Kingdom: 19 Barton Lane Telephone: 44 (0)1235 529449
 Abingdon Science Park Fax: 44 (0)1235 533420
 Abingdon, OX14 3NB
 Email address: info.emea@bio-techne.com

China 1193 Changning Road Telephone: 86-400-821-3475
 Unit 1901, Raffles Changning Office Fax: 76 (021)52371001
 Shanghai, China
 Email address: techsupport.cn@bio-techne.com

1.4 Emergency Telephone Number

Emergency Tel: For chemical emergency, spill, leak, fire, exposure, or accident call CHEMTREC day or night:
 Within U.S. 1-800-262-8200 Worldwide 1-703-741-5500
 Bio-Techne Tel: US: 612-379-2956 or 800-343-7475 / Europe: +44(0)1235-529449 / China 86-400-821-3475

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA]

Corrosive to metals – Category 1
 Skin Corrosion – Category 1B
 Serious Eye Damage – Category 2.1
 STOT SE – Category 3

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 [GHS/CLP]



Signal Word

Warning

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Statements

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H335 May causes respiratory irritation.

Precautionary Statement(s):

- P234 Keep only in original container.
- P260 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/eye protection/face protection.
- P303+P352+P361 IF ON SKIN: Wash with plenty of soap and water.
- P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P390 Absorb spillage to prevent material damage.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P406 Store in corrosive resistant stainless-steel container with a resistant inner liner.
- P501 Dispose of contents/container to an approved waste disposal plant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

| | |
|-----------------------|-----|
| Proprietary Substance | <5% |
|-----------------------|-----|

SECTION 4: FIRST AID AND MEASURES

4.1 Description of first aid measures

4.2 General information

Consult a doctor and show this safety data sheet.

If Inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

In Case of Skin Contact

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

If Swallowed

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

In case of Eye Contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

4.3 Most important symptoms and effects, both acute and delayed.

Inhalation

Vapors may be irritating to the eyes and the respiratory tract.

Skin

May cause skin irritation.

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Eyes

Will cause eye discomfort and redness.

Ingestion

Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

4.4 Indication of immediate medical attention and special treatment needed.

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use large quantities of water applied as a mist or spray. Solid streams of water may be ineffective. Cool affected containers with flooding quantities of water.

5.2 Special hazards arising from the substance or mixture.

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

5.3 Precautions for fire fighters

No specific firefighting procedure given.

Protective equipment for fire fighters

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Do not act without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas.

Ensure adequate ventilation. Avoid breathing vapors, mist, dust, or gas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.2 Environmental Precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.

6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid inhalation, contact with eyes, skin, and clothing. Use in a well-ventilated area. Do not eat, drink, or smoke in laboratory areas. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required.

7.2 Conditions for safe storage, including any incompatibilities.

Store in cool, well-ventilated area. Store locked up. Containers, which are opened, must be carefully resealed and kept upright to prevent leakage. Keep away from heat, sparks, flame, and other sources of ignition.

7.3 Specific end user(s)

Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Appropriate Engineering Controls

Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station. Prevent dispersion of dust. Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling product.

Protective equipment



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Eye Protection

Use appropriate safety glasses.

Skin Protection

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

Body Protection

Wear appropriate protective clothing.

Respiratory Equipment

If risk assessment indicates necessary, use a suitable respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | | | |
|---|--------------------|----------------------------------|--------------------------------|
| Appearance | Powder | Vapor Pressure | No data available |
| Odor | No data available | Vapor Density | No data available |
| Odor Threshold | No data available. | Relative Density | No data available |
| pH | 12.5 | Solubility | 2.61 g/cm ³ at 20 C |
| Melting / Freezing Point | No data available. | Partition Coefficient | No data available |
| Boiling Point / Range | No data available | Autoignition Temperature | No data available |
| Flash Point | No data available | Decomposition Temperature | No data available |
| Evaporation Rate | No data available. | Viscosity | No data available |
| Flammability (Solid, Gas) | No data available. | Explosive Properties | No data available |
| Upper/Lower Flammability or Explosive Limits | No data available | Oxidizing Properties | No data available |

9.2 Other information

Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid.

Heat, flames, sparks

10.5 Incompatible Materials

Strong acids, lead, tin/tin oxides, zinc, aluminum, strong oxidizing agents.

10.6 Hazardous decomposition products

Sodium oxides, silicon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50 Oral – Rat – 1,152 – 1,349 mg/kg.

Skin Corrosion / Irritation

May cause skin irritation and/or dermatitis.

Serious Eye Damage/Irritation

Will cause eye discomfort, redness, and tearing of the eye..

Respiratory or Skin Sensitization

May be irritating to the respiratory tract.

Germ Cell Mutagenicity

Classified based on available data.

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Carcinogenicity

Classified based on available data.

Reproductive Toxicity

Classified based on available data.

Specific Target Organ Toxicity - Single Exposure

Respiratory system.

Specific Target Organ Toxicity - Repeated Exposure

Respiratory system.

Aspiration Hazard

Classified based on available data.

Symptoms / Routes of Exposure

Inhalation: May cause respiratory tract irritation.

Ingestion: Harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: Causes serious eye irritation.

Delayed/Immediate Effects:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

Classified based on available data.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

LC50 – 210 mg/l – 96 hr (zebra fish)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available on bioaccumulation

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.

Contaminated Packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

SECTION 14: TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA

14.1 UN Number

UN3253.

14.2 UN proper shipping name

Proprietary Information.

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14.3 Transport hazard class(es)

8

14.4 Packing group

III.

14.5 Environmental hazards

Does not meet the criteria for classification as hazardous for transport.

14.6 Special precautions for user

Does not meet the criteria for classification as hazardous for transport.

Additional Transport Information

Does not meet the criteria for classification as hazardous for transport.

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

Statutory Instruments

TSCA (Toxic Substances Control Act): Not applicable.

SARA 313: Not applicable.

SARA 311/312: Not applicable.

CERCLA Reportable Quantity: Not applicable.

California Proposition 65: Not applicable

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been made for this product.

SECTION 16: OTHER INFORMATION

Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel.

Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet.