

MATERIAL SAFETY DATA SHEET

11-dehydro Thromboxane B2 EIA Buffer Concentrate (10X)

Cayman Chemical Company
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108

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1. Product and Company Identification

Product Code: 419507
Product Name: 11-dehydro Thromboxane B2 EIA Buffer Concentrate (10X)
Manufacturer Information
Company Name: Cayman Chemical Company
Emergency Contact: Cayman Chemical Company (800)364-9897
Information: Cayman Chemical Company (734)971-3335
Chemical Family: EIA - Reagents

2. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Percentage	OSHA PEL	ACGIH TLV	Other Limits
1. Sodium chloride	7647-14-5	23.376 %	No data.	No data.	No data.
2. Diethanolamine	111-42-2	21.028 %	No data.	2 mg/m3	No data.
3. Albumin, bovine	NA	1.0 %	No data.	No data.	No data.
4. Sodium azide	26628-22-8	0.1 %	No data.	No data.	No data.
5. Sodium (tetra)ethylenediamine tetraacetate	64-02-8	0.381 %	No data.	No data.	No data.
6. Water	7732-18-5	54.116 %	No data.	No data.	No data.
Hazardous Components (Chemical Name)	RTECS #	OSHA STEL	OSHA CEIL	ACGIH STEL	ACGIH CEIL
1. Sodium chloride	VZ4725000	No data.	No data.	No data.	No data.
2. Diethanolamine	KL2975000	No data.	No data.	No data.	No data.
3. Albumin, bovine	NA	No data.	No data.	No data.	No data.
4. Sodium azide	VY8050000	No data.	No data.	No data.	No data.
5. Sodium (tetra)ethylenediamine tetraacetate	AH5075000	No data.	No data.	No data.	No data.
6. Water	ZC0110000	No data.	No data.	No data.	No data.

3. Hazards Identification

Emergency Overview: No data available.

Route(s) of Entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection

Potential Health Effects (Acute and Chronic): Contact with acids may liberate very toxic gas.
Danger of serious damage to health by prolonged exposure if swallowed.
Harmful.
Harmful if swallowed.
Highly toxic.
Irritant.
Material is irritating to the mucous membranes and upper respiratory tract.
May be fatal if swallowed, inhaled, or absorbed through skin.
May cause eye, skin, or respiratory system irritation.
May cause heritable genetic damage.
May cause severe eye irritation.
Readily absorbed through skin.
Risk of serious damage to eyes.
The toxicological properties of this compound have not been fully evaluated.
Please refer to Section 11.

LD 50/LC 50:

Signs and Symptoms Of Exposure: Exposure can cause: stomach pains, vomiting, diarrhea.
Ingestion of large amounts of sodium chloride causes vomiting and diarrhea.

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4. First Aid Measures

Emergency and First Aid Procedures: If inhaled remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 20 minutes. Have eyes examined and tested by medical personnel.
In case of skin contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

5. Fire Fighting Measures

Flash Pt: No data.
Explosive Limits: LEL: No data. UEL: No data.
Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
Flammable Properties and Hazards: Container explosion may occur under fire conditions.
Emits toxic fumes under fire conditions.
Sodium azide may react with lead and copper plumbing to form highly explosive metal azides.
Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray when fighting fires involving this material.
Unsuitable Extinguishing Media: No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Wear a NIOSH/MSHA approved self-contained breathing apparatus and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. After removal, ventilate contaminated area and flush thoroughly with water.
Avoid release into the environment - very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

7. Handling and Storage

Hazard Label Information: Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation.
Wash thoroughly after handling.
Precautions To Be Taken in Handling: Avoid breathing (dust, vapor, mist, gas).
Avoid contact with eyes, skin, and clothing.
Avoid prolonged or repeated exposure.
Do not reuse this container.
Use with adequate ventilation.
Wash thoroughly after handling.
Precautions To Be Taken in Storing: Keep tightly closed.
Store at correct temperature.
Other Precautions: Air sensitive.
Heat sensitive.

8. Exposure Controls/Personal Protection

Protective Equipment Summary - Hazard Label Information: Eye wash station in work area Lab coat Latex disposable gloves Safety glasses Safety shower in work area Vent Hood
Respiratory Equipment (Specify Type): No data available.
Eye Protection: Safety glasses
Protective Gloves: Latex disposable gloves
Other Protective Clothing: Lab coat

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Intravenous LD50 (rat):778 mg/kg
Intramuscular LD50 (rat):1500 mg/kg
Oral LD50 (mouse):3300 mg/kg
Intraperitoneal LD50 (mouse):210 mg/kg
Oral LD50 (rabbit):2200 mg/kg
Skin LD50 (rabbit):7640 ul/kg
Oral LD50 (guinea pig):2000 mg/kg
Skin LD50 (guinea pig):11900 ul/kg

Sodium Chloride - Toxicity Data:

Oral LDLO (man):1 g/kg
Oral LD50 (rat):3 g/kg
Inhalation LC50 (rat):>42 g/m³/1H
Oral LD50 (mouse):4 g/kg
Intraperitoneal LD50 (mouse):2602 mg/kg
Subcutaneous LD50 (mouse):3 g/kg
Intravenous LD50 (mouse): 645 mg/kg
Skin LD50 (rabbit):>10 g/kg

Diethanolamine - Irritation Data:

Skin (rabbit):50 mg
Skin (rabbit):500 mg/24H mild effect
Eyes (rabbit):5500 mg severe effect
Eyes (rabbit):0.75 mg/24H severe effect

Sodium Chloride - Irritation Data:

Skin (rabbit):50 mg/24H mild effect
Skin (rabbit):500 mg/24H mild effect
Eyes (rabbit):100 mg mild effect
Eyes (rabbit):100 mg/24H moderate effect
Eyes (rabbit):10 mg moderate effect

Chronic Toxicological Effects:

Diethanolamine - Investigated as a carcinogen and reproductive effector.

Diethanolamine - Target Organ Data:

Effects on newborn (other postnatal measures of effects)
Maternal effects (other effects)
Paternal effects (spermatogenesis)

Sodium Chloride - Target Organ Data:

Behavioral (somnia)
Behavioral (convulsions or effects on seizure threshold)
Behavioral (change in motor activity)
Behavioral (muscle contraction or spasticity)
Cardiac (other changes)
Effects on embryo or fetus (fetotoxicity)
Effects on embryo or fetus (fetal death)
Effects on fertility (pre-implantation mortality)
Effects on fertility (post-implantation mortality)
Effects on fertility (abortion)
Endocrine (estrogenic)
Maternal effects (ovaries, fallopian tubes)
Maternal effects (other effects on female)
Sense organs and special senses (other eye effects)
Specific developmental abnormalities (musculoskeletal system)

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Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.
 See actual entry in RTECS for complete information.
 Diethanolamine RTECS Number: KL2975000
 Sodium Chloride RTECS Number: VZ4725000

Carcinogenicity/Other Information: No data available.
Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

Ecological Information: Avoid release into the environment - very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 Runoff from fire control or dilution water may cause pollution.

13. Disposal Considerations

Waste Disposal Method: Dispose in accordance with local, state and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name: No data available.
DOT Hazard Class: 9
DOT Hazard Label: CLASS 9
UN/NA Number: 3077
DOT Packing Group: III
Additional Transport Information: Transport in accordance with local, state, and federal regulations.

15. Regulatory Information

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Sodium chloride	7647-14-5	No	No	No	No
2. Diethanolamine	111-42-2	No	Yes 100 LB	Yes	No
3. Albumin, bovine	NA	No	No	No	No
4. Sodium azide	26628-22-8	Yes 500 LB	Yes 1000 LB	Yes	No
5. Sodium (tetra)ethylenediamine tetraacetate	64-02-8	No	No	No	No
6. Water	7732-18-5	No	No	No	No

US EPA CAA, CWA, TSCA

Hazardous Components (Chemical Name)	CAS #	EPA CAA	EPA CWA NPDES	EPA TSCA	CA PROP 65
1. Sodium chloride	7647-14-5	No	No	No	No
2. Diethanolamine	111-42-2	HAP	No	12(b)	No
3. Albumin, bovine	NA	No	No	No	No
4. Sodium azide	26628-22-8	No	No	No	No
5. Sodium (tetra)ethylenediamine tetraacetate	64-02-8	No	No	No	No
6. Water	7732-18-5	No	No	No	No

16. Other Information

Company Policy or Disclaimer

For research use only, not for human or veterinary clinical use.
 DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.