

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Article
 Product name. : Cartridge B, Primary Cartridge

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

Use of the substance/preparation : Biological Analysis

1.3. Details of the supplier of the safety data sheet

IntegenX, Inc.
 5720 Stoneridge Drive, Suite 300
 Pleasanton, CA 94588
www.integenx.com

1.4. Emergency telephone number

Emergency number : 925-701-3400

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Product is a plastic cartridge which contains liquid. As manufactured, the product is an article and is not classified according to GHS. The following classification is for the liquid in the cartridge:

GHS-US classification

Not classified as hazardous according to GHS

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :

Signal word (GHS-US) : Not classified as hazardous according to GHS

Hazard statements (GHS-US) : Not classified as hazardous according to GHS

Precautionary statements (GHS-US) : Not classified as hazardous according to GHS

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Taps sodium salt (1-Propanesulfonic acid, 3-[[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]amino]-)	CAS-No. 29915-38-6	28	Not classified
Tris (hydroxymethyl) aminomethane	CAS No. 77-86-1	4	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : No specific first aid necessary for this route of exposure.
- First-aid measures after skin contact : Wash with plenty of soap and water.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Seek medical attention if irritation develops.
- First-aid measures after ingestion : Do not induce vomiting. Give water to victim to drink. Seek medical attention.

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

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not flammable.
- Explosion hazard : None known.
- Reactivity : None.

5.3. Advice for firefighters

- Protection during firefighting : Firefighters should wear full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : No special measures required.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

None.

6.3. Methods and material for containment and cleaning up

- For containment : No special measures required.
- Methods for cleaning up : Wipe with an absorbent material and place in a receptacle for proper disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with eyes, skin and clothing.

Safety Data Sheet

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : No special storage conditions required.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : None required under normal product handling conditions.

Hand protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection : Wear impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection : None required under normal product handling conditions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Liquid enclosed in plastic cartridge.

Colour : No data available

Odour : No data available

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Self ignition temperature : No data available

Decomposition temperature : No data available

Safety Data Sheet

Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None.

10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

None.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Not determined.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Tris (hydroxymethyl) aminomethane (CAS No. 77-86-1)

Acute toxicity

LD50 Oral - Rat >5,000 mg/kg

LD50 Dermal - Rat >5,000 mg/kg

Safety Data Sheet

Skin corrosion/irritation	Skin - Rabbit - No skin Irritation - OECD Test Guideline 404
Serious eye damage/irritation	Eyes - Rabbit - No eye irritation - OECD Test Guideline 406 - Does not cause skin sensitisation
Respiratory or skin sensitisation	Buehler Test - Guinea pig - OECD Test Guideline 406 - Does not cause skin sensitization
Germ cell mutagenicity	Genotoxicity in vitro - Not mutagenic in Ames Test. Genotoxicity in vitro - in vitro assay - negative In vitro tests did not show mutagenic effects Genotoxicity in vivo - In vivo tests did not show any chromosomal changes.
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

In accordance with DOT / ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

Not dangerous goods

14.2. UN proper shipping name

Not dangerous goods

14.3 Additional information

Other information : No supplementary information available.

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Taps sodium salt (N-tris(Hydroxymethyl)methyl-3-aminopropanesulfonic acid sodium potassium salt)
Tris (hydroxymethyl) aminomethane

15.2. International regulations

CANADA

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.