

Exosome Elution Buffer

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 10/06/2021 Version: 1.0

SECTION 1: Identification

Identification

Product form : Mixture

Product name : Exosome Elution Buffer

Product code : A00662

Recommended use and restrictions on use

No additional information available

Asuragen, Inc. 2150 Woodward Street Austin, Texas 78744 +1 512 681 5200

Emergency telephone number

Emergency number : Asuragen, Inc. +1 512 681 5200 US, Toll-free Tel: 1-877-777-1874 (Normal Business Hours)

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS US classification

H302 Acute toxicity (oral) Category 4 H332 Harmful if inhaled Acute toxicity

(inhalation:dust,mist) Category 4

Category 1C

Skin corrosion/irritation H314

H402

H412

H318

Serious eye damage/eye irritation Category 1

Hazardous to the aquatic environment - Acute

Hazard Category 3

Hazardous to the aquatic environment - Chronic

Hazard Category 3

Harmful if swallowed

Causes severe skin burns and eye damage

Causes serious eye damage

Harmful to aquatic life

Harmful to aquatic life with long lasting effects

Full text of H statements : see section 16

GHS Label elements, including precautionary statements 2.2.

GHS US labeling

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

: H302+H332 - Harmful if swallowed or if inhaled Hazard statements (GHS US)

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage H402 - Harmful to aquatic life

H412 - Harmful to aquatic life with long lasting effects

: P260 - Do not breathe dust/fume/gas/mist/vapors/spray. Precautionary statements (GHS US)

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

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skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep 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.

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P310 - Immediately call a poison center or doctor.

P312 - Call a poison center or doctor if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P330 - Rinse mouth.

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Other hazards which do not result in classification

No additional information available

Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

Substances

Not applicable

3.2. **Mixtures**

| Name | Product identifier | % | GHS US classification |
|-----------------------|---------------------|-------|---|
| guanidine thiocyanate | (CAS-No.) 593-84-0 | 50-60 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402 Aquatic Chronic 3, H412 |
| TRITON X-100 | (CAS-No.) 9002-93-1 | <5 | Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

First-aid measures after eye contact

First-aid measures after ingestion

Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

: Allow affected person to breathe fresh air. Allow the victim to rest. Remove victim to fresh air First-aid measures after inhalation and keep at rest in a position comfortable for breathing. Call a POISON CENTER or

doctor/physician if you feel unwell. Immediately call a poison center or doctor/physician. : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

First-aid measures after skin contact Immediately call a poison center or doctor/physician.

> : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

> : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Immediately call a poison center or doctor/physician.

Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms

: Based on available data, the classification criteria are not met. Harmful if swallowed. Harmful if inhaled.

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Symptoms/effects

: Causes severe skin burns and eye damage.

Symptoms/effects after inhalation

: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if

inhaled.

Symptoms/effects after eye contact

: Causes serious eye damage.

Symptoms/effects after ingestion

: Swallowing a small quantity of this material will result in serious health hazard.

Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Specific hazards arising from the chemical

No additional information available

Special protective equipment and precautions for fire-fighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Use only outdoors or in a well-ventilated area. Avoid breathing

dust/fume/gas/mist/vapors/spray. Do not breathe dust/fume/gas/mist/vapors/spray.

Hygiene measures

: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Comply with applicable regulations.

Storage conditions

Keep only in the original container in a cool, well ventilated place away from : Keep container

closed when not in use.

Incompatible products : Strong bases. Strong acids. Incompatible materials

: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

Control parameters

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No additional information available



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guanidine thiocyanate (593-84-0)

No additional information available

TRITON X-100 (9002-93-1)

No additional information available

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or face shield

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask

Other information:

Physical state

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

: Liquid

Color Colorless Odor : characteristic Odor threshold : No data available рΗ : No data available Melting point : No data available Freezing point No data available No data available Boiling point Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Non flammable. Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available : No data available Decomposition temperature : No data available Viscosity, kinematic No data available Viscosity, dynamic **Explosion limits** : No data available : No data available Explosive properties Oxidizing properties : No data available



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No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates: Corrosive vapors.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates: Corrosive vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Harmful if inhaled.

| ATE US (oral) | 991.887 mg/kg body weight | |
|----------------------------------|---|--|
| ATE US (dust, mist) | 2.539 mg/l/4h | |
| guanidine thiocyanate (593-84-0) | | |
| LD50 oral rat | 593 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Female, Experimental value, Oral, 14 day(s)) | |
| LD50 dermal rabbit | > 2000 mg/kg body weight (24 h, Rabbit, Male / female, Experimental value, Skin, 14 day(s)) | |
| LC50 Inhalation - Rat | > 0.853 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s)) | |
| ATE US (oral) | 593 mg/kg body weight | |
| ATE US (gases) | 4500 ppmV/4h | |
| ATE US (vapors) | 11 mg/l/4h | |
| ATE US (dust, mist) | 1.5 mg/l/4h | |
| TRITON X-100 (9002-93-1) | | |
| LD50 oral rat | 1800 mg/kg (Rat, Literature study, Oral) | |
| LD50 dermal rabbit | 8000 mg/kg (Rabbit, Literature study, Dermal) | |
| ATE US (oral) | 1800 mg/kg body weight | |
| Skin corrosion/irritation | : Causes severe skin burns. | |

Skin corrosion/irritation : Causes severe skin burns.
Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met. Harmful if swallowed. Harmful if

inhaled.

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Symptoms/effects

: Causes severe skin burns and eye damage.

Symptoms/effects after inhalation

: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if

inhaled.

Symptoms/effects after eye contact

: Causes serious eye damage.

Symptoms/effects after ingestion

: Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

| guanidine thiocyanate (593-84-0) | dine thiocyanate (593-84-0) | |
|----------------------------------|--|--|
| LC50 fish 1 | 89.1 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Poecilia reticulata, Static system, Fresh water, Experimental value) | |
| guanidine thiocyanate (593-84-0) | | |
| EC50 Daphnia 1 | 42.4 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) | |
| TRITON X-100 (9002-93-1) | | |
| LC50 fish 1 | 8.9 mg/l (96 h, Pimephales promelas, Literature study) | |
| EC50 Daphnia 1 | 26 mg/l (48 h, Daphnia magna, Literature study) | |

12.2. Persistence and degradability

| Exosome Elution Buffer | |
|----------------------------------|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| guanidine thiocyanate (593-84-0) | |
| Persistence and degradability | Not readily biodegradable in water. |
| TRITON X-100 (9002-93-1) | |
| Persistence and degradability | Biodegradability in water: no data available. |
| Chemical oxygen demand (COD) | 2.19 mg/g |
| ThOD | 2.16 g O₂/g substance |

12.3. Bioaccumulative potential

| Exosome Elution Buffer | xosome Elution Buffer | |
|---|---|--|
| Bioaccumulative potential | Not established. | |
| guanidine thiocyanate (593-84-0) | | |
| Partition coefficient n-octanol/water (Log Pow) | -1.11 (Calculated, EU Method A.8: Partition Coefficient, 25 °C) | |
| Bioaccumulative potential | Not bioaccumulative. | |
| TRITON X-100 (9002-93-1) | | |
| Partition coefficient n-octanol/water (Log Pow) | 4.86 (Estimated value) | |
| Bioaccumulative potential | No bioaccumulation data available. | |

12.4. Mobility in soil

| guanidine thiocyanate (593-84-0) | |
|----------------------------------|---|
| Ecology - soil | No (test)data on mobility of the substance available. |
| TRITON X-100 (9002-93-1) | |
| Ecology - soil | No (test)data on mobility of the substance available. |

12.5. Other adverse effects

Other information : Avoid release to the environment.



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SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to hazardous or special waste collection point, in accordance with local,

regional, national and/or international regulation.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

| guanidine thiocyanate (593-84-0) | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| TRITON X-100 (9002-93-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711). |

15.2. International regulations

CANADA

guanidine thiocyanate (593-84-0)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

National regulations

No additional information available

15.3. US State regulations

SECTION 16: Other information

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Other information : None.

Full text of H-phrases:

| H302 | Harmful if swallowed |
|------|---|
| H314 | Causes severe skin burns and eye damage |



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| H318 | Causes serious eye damage |
|------|---|
| H332 | Harmful if inhaled |
| H402 | Harmful to aquatic life |
| H412 | Harmful to aquatic life with long lasting effects |

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