

Safety Data Sheet

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Version 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Recombinant Human Vimentin protein

Recommended use For research use only

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2. HAZARDS IDENTIFICATION

GHS - Classification

| | |
|---------------------------------------|------------|
| Acute oral toxicity | Category 4 |
| Acute inhalation toxicity - dust/mist | Category 4 |
| Serious eye damage/eye irritation | Category 2 |
| Flammable liquids | Category 2 |

GHS Label elements, including precautionary statements



**Signal Word**

Danger

Hazard statements

H302 - Harmful if swallowed

H332 - Harmful if inhaled

H319 - Causes serious eye irritation

H225 - Highly flammable liquid and vapor

Precautionary Statements - EU (§28, 1272/2008)

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

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

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

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

P264 - Wash face, hands and any exposed skin thoroughly after handling

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P312 - Call a POISON CENTER or doctor/ physician if you feel unwell

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P370 + P378 - In case of fire: Use foam for extinction

P337 + P313 - If eye irritation persists: Get medical advice/ attention

P233 - Keep container tightly closed

P403 + P235 - Store in a well-ventilated place. Keep cool

P501 - Dispose of contents/ container to an approved waste disposal plant

Other information

Caution - substance not yet tested completely

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

| Chemical Name | CAS-No | Weight % | Classification (Reg. 1272/2008) |
|----------------------|---------|----------|--|
| Acetonitrile | 75-05-8 | 15-40 | Flam Liq. 2 (H225) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) |
| Trifluoroacetic acid | 76-05-1 | 0.1-1 | Skin Corr. 1A (H314) Acute Tox. 4 (H332) Aquatic Chronic 3 (H412) |

For the full text of the H-Statements mentioned in this Section, see Section 16

4. FIRST AID MEASURES

| | |
|---------------------------|---|
| General advice | If symptoms persist, call a physician. |
| Eye contact | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician. |
| Inhalation | Move to fresh air. If symptoms persist, call a physician. |
| Ingestion | Rinse mouth. If symptoms persist, call a physician. |
| Notes to physician | Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

| | |
|--|--|
| Flammable properties | Not flammable. |
| Flash point | not determined |
| Suitable extinguishing media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Explosion Data | |
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge | None. |
| Protective equipment and precautions for firefighters | 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. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|--|
| Personal precautions | Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
| Environmental precautions | Try to prevent the material from entering drains or water courses. |
| Methods for containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. |

7. HANDLING AND STORAGE

| | |
|--|---|
| Advice on safe handling | Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product. Use only in area provided with appropriate exhaust ventilation. |
| Technical measures/Storage conditions | Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|----------------------------|---|
| Exposure Guidelines | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
|----------------------------|---|

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|-------------------------|-------------------|---|---|
| Acetonitrile 75-05-8 | TWA: 20 ppm S* | TWA: 40 ppm TWA: 70 mg/m ³ TWA: 5 mg/m ³ CN (vacated) TWA: 40 ppm (vacated) TWA: 70 mg/m ³ (vacated) TWA: 5 mg/m ³ (vacated) STEL: 60 ppm (vacated) STEL: 105 mg/m ³ S* | IDLH: 500 ppm IDLH: 25 mg/m ³ CN TWA: 20 ppm TWA: 34 mg/m ³ |

| | |
|-----------------------------|--|
| Engineering measures | Showers Eyewash stations Ventilation systems |
|-----------------------------|--|

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Face-shield.

Skin and body protection

No special protective equipment required.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------------------|--------------------------|------------------------------------|---------------------------|
| Appearance | powder. | Odor | No information available. |
| Odor Threshold | No information available | Physical State @20°C | No information available |
| pH | | | |
| Flash point | No information available | Autoignition temperature | No information available |
| Decomposition temperature | No information available | Boiling point/boiling range | No information available |
| Melting point/range | No information available | | |
| | | Flammability Limits in Air | No information available |
| Explosion limits | No information available | | |
| | | solubility | No information available. |
| Specific Gravity | No data available | Vapor Pressure @20°C (kPa) | No information available |
| Evaporation rate | No information available | VOC Content(%) | 30 |
| Vapor density | No data available | | |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Stability | Stable under recommended storage conditions. |
| Incompatible products | None known based on information supplied. |
| Conditions to avoid | None known based on information supplied. |
| Hazardous decomposition products | None known based on information supplied. |
| Hazardous polymerization | Hazardous polymerization does not occur. |

11. TOXICOLOGICAL INFORMATION

Acute toxicity

| | |
|----------------------------|---|
| Product Information | Harmful if swallowed Harmful by inhalation Irritating to skin, eyes and / or respiratory tract. |
| Inhalation | Harmful by inhalation May cause irritation of respiratory tract |
| Eye contact | May cause irritation |
| Skin contact | May cause irritation |
| Ingestion | Harmful if swallowed Ingestion may cause irritation to mucous membranes |

Chronic toxicity

| | |
|-------------------------|---|
| Chronic toxicity | Avoid repeated exposure May cause adverse liver effects |
|-------------------------|---|

| | |
|-----------------------------|---|
| Target Organ Effects | Central nervous system (CNS). Central Vascular System (CVS). Kidney. Liver. Respiratory system. |
|-----------------------------|---|

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|----------------------|-------------------|--|----------------------------|---|
| Acetonitrile | | 1600-1690: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Pimephales promelas mg/L LC50 static 1850: 96 h Lepomis macrochirus mg/L LC50 static 1650: 96 h Poecilia reticulata mg/L LC50 static | | 5838: 18 h Daphnia pulex mg/L EC50 |
| Chemical Name | | log Pow | | |
| Acetonitrile | | -0.34 | | |

13. DISPOSAL CONSIDERATIONS

Waste disposal methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging Do not re-use empty containers.

US EPA Waste Number U003

| Chemical Name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|------------------------|------|---|------------------------|------------------------|
| Acetonitrile - 75-05-8 | U003 | Included in waste streams: F039, K011, K013, K014 | | U003 |
| Chemical Name | | California Hazardous Waste Status | | |
| Acetonitrile | | Toxic Ignitable | | |

14. TRANSPORT INFORMATION

DOT Not dangerous goods

IATA Not dangerous goods

ADR Not dangerous goods

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS-No | Weight % | SARA 313 - Threshold Values % |
|---------------|---------|----------|-------------------------------|
| Acetonitrile | 75-05-8 | 30 | 1.0 |

SARA 311/312 Hazard Categories

Acute Health Hazard yes
Chronic Health Hazard no

| | |
|--|----|
| Fire Hazard | no |
| Sudden Release of Pressure Hazard | no |
| Reactive Hazard | no |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Acetonitrile | | X | | |

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|---------------|--------------------------|------------------------------------|---|
| Acetonitrile | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|----------------------|---------------|------------|--------------|----------|--------------|
| Acetonitrile | X | X | X | X | X |
| Trifluoroacetic acid | | X | | | |

International Regulations

| Chemical Name | Carcinogen Status | Exposure limits |
|---------------|-------------------|--|
| Acetonitrile | | Mexico: TWA 40 ppm Mexico: TWA 70 mg/m ³ Mexico: TWA 5 mg/m ³ Mexico: STEL 60 ppm Mexico: STEL 105 mg/m ³ |

WHMIS Note:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION**Full text of H-Statements referred to under sections 2 and 3**

H225 - Highly flammable liquid and vapor H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled H314 - Causes severe skin burns and eye damage H319 - Causes serious eye irritation H412 - Harmful to aquatic life with long lasting effects

Hazard statements

H302 - Harmful if swallowed

H332 - Harmful if inhaled

H319 - Causes serious eye irritation

H225 - Highly flammable liquid and vapor

Revision Date 20-Feb-2019

Revision Note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of MSDS