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Section 1. Identification of the Substance/Mixture and of the Company/Undertaking
1.1 Product Code:

10012544
Product Name: SIRT3 Direct Nicotinamide
1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses: For research use only, not for human or veterinary use.
1.3 Details of the Supplier of the Safety Data Sheet:

| Company Name: | Cayman Chemical Company |  |
| :--- | :--- | :--- |
|  | 1180 E. Ellsworth Rd. |  |
|  | Ann Arbor, MI 48108 |  |
| Web site address: | www.caymanchem.com |  |
| Information: | Cayman Chemical Company | $+1(734) 971-3335$ |
| Emergency telephone number: |  |  |
| Emergency Contact: | CHEMTREC Within USA and Canada: | $+1(800) 424-9300$ |
|  | CHEMTREC Outside USA and Canada: | $+1(703) 527-3887$ |

## Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:
2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:
2.2 Label Elements:
2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:

GHS Signal Word: None
GHS Hazard Phrases:
Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.
GHS Precaution Phrases:
No phrases apply.
GHS Response Phrases:
No phrases apply.
GHS Storage and Disposal Phrases:
Please refer to Section 7 for Storage and Section 13 for Disposal information.
2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.

Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption.
May cause eye, skin, or respiratory system irritation.
To the best of our knowledge, the toxicological properties have not been thoroughly investigated.
Section 3. Composition/Information on Ingredients

| CAS \# I <br> RTECS \# | Hazardous Components (Chemical Name)I <br> REACH Registration No. | Concentration | EC No.I <br> EC Index No. | GHS Classification |
| :---: | :--- | :--- | :--- | :--- |
| $77-86-1$ <br> TY2900000 | Trizma base | $0.6 \%$ | 201-064-4 <br> NA | Skin Corr. 2: H315 <br> Eye Damage 2: H319 <br> STOT (SE) 3: H335 H336 |
| $7647-14-5$ <br> VZ4725000 | Sodium chloride | $0.8 \%$ | $231-598-3$ <br> NA | No data available. |
| $7447-40-7$ <br> TS8050000 | Potassium chloride | $0.02 \%$ | 231-211-8 <br> NA | Acute Tox.(O) 5: H303 <br> Aquatic (A) 3: H402 |
| $7791-18-6$ | Magnesium chloride, hexahydrate | $0.02 \%$ | NA | No data available. |



## Section 7. Handling and Storage

7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure.
7.2 Precautions To Be Taken Keep container tightly closed.
in Storing: Store in accordance with information listed on the product insert.

## Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

| CAS \# | Partial Chemical Name | Britain EH40 | France VL | Europe |
| :---: | :--- | :--- | :--- | :--- |
| $77-86-1$ | Trizma base | No data. | No data. |  |
| $7647-14-5$ | Sodium chloride | No data. | No data. |  |
| $7447-40-7$ | Potassium chloride | No data. | No data. |  |
| $7791-18-6$ | Magnesium chloride, hexahydrate | No data. | No data. |  |
| $98-92-0$ | Nicotinamide | No data. | No data. |  |
| $7732-18-5$ | Water | No data. | No data. |  |
| CAS \# | Partial Chemical Name | OSHA TWA | No data. |  |
| $77-86-1$ | Trizma base | No data. | No data. |  |
| $7647-14-5$ | Sodium chloride | No data. | No data. |  |
| $7447-40-7$ | Potassium chloride | No data. | No data. | No data. |
| $7791-18-6$ | Magnesium chloride, hexahydrate | No data. | No data. | No data. |
| $98-92-0$ | Nicotinamide | No data. | No data. | No data. |
| $7732-18-5$ | Water | No data. | No data. | No data. |

8.2 Exposure Controls:
8.2.1 Engineering Controls (Ventilation etc.):
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
8.2.2 Personal protection equipment:
$\begin{array}{ll}\text { Eye Protection: } & \text { Safety glasses } \\ \text { Protective Gloves: } & \text { Compatible chemical-resistant gloves }\end{array}$
Other Protective Clothing:Lab coat
Respiratory Equipment NIOSH approved respirator, as conditions warrant.
(Specify Type):
Work/Hygienic/Maintenan Do not take internally.
ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Wash thoroughly after handling.
No data available.

## Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

| Physical States: | [ ] Gas [ X ] Liquid | [ ] Solid |
| :---: | :---: | :---: |
| Appearance and Odor: | Solution |  |
| pH : | 8.0 |  |
| Melting Point: | No data. |  |
| Boiling Point: | No data. |  |
| Flash Pt: | No data. |  |
| Evaporation Rate: | No data. |  |
| Explosive Limits: | LEL: No data. | UEL: No data. |
| Vapor Pressure (vs. Air or mm | No data. |  |
| Hg ): |  |  |
| Vapor Density (vs. Air = 1): | No data. |  |

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|  | Specific Gravity (Water = 1): <br>  <br> Solubility in Water: | No data. <br> No data. |
| :--- | :--- | :--- |
|  | Autoignition Pt: <br> Other Information | No data. |
| Percent Volatile: | No data. |  |

## Section 11. Toxicological Information



## Section 12. Ecological Information

12.1 Toxicity:
$\begin{array}{cl}\text { 12.2 } & \text { Persistence and } \\ & \text { Degradability: }\end{array}$
12.3 Bioaccumulative Potential:
12.4 Mobility in Soil: No data available.
12.5 Results of PBT and vPvB No data available. assessment:
12.6 Other adverse effects: No data available.

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## Section 13. Disposal Considerations

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

## Section 14. Transport Information

### 14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not dangerous goods.
DOT Hazard Class:
UN/NA Number:
14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.
UN Number:
Hazard Class:

### 14.3 AIR TRANSPORT (ICAOIIATA):

ICAOIIATA Shipping Name: Not dangerous goods.
Additional Transport Transport in accordance with local, state, and federal regulations.
Information:

| Section 15. Regulatory Information |  |  |  |  |
| :---: | :--- | :--- | :--- | :--- |
| EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists |  |  |  |  |
| CAS \# | Hazardous Components (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) |
| $77-86-1$ | Trizma base | No | No | Yes-Cat. N106 |
| $7647-14-5$ | Sodium chloride | No | No | No |
| $7447-40-7$ | Potassium chloride | No | No | No |
| $7791-18-6$ | Magnesium chloride, hexahydrate | No | No | No |
| $98-92-0$ | Nicotinamide | No | Yes-Cat. N503 |  |
| $7732-18-5$ | Water | No | No |  |
| CAS \# | Hazardous Components (Chemical Name) | Other US EPA or State Lists |  |  |
| $77-86-1$ | Trizma base | CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - <br> Inventory; CA PROP.65: No |  |  |
| $7647-14-5$ | Sodium chloride | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - <br> Inventory; CA PROP.65: No |  |  |
| $7447-40-7$ | Potassium chloride | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - <br> Inventory; CA PROP.65: No |  |  |
| $7791-18-6$ | Magnesium chloride, hexahydrate | CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA <br> PROP.65: No |  |  |
| $7732-18-5$ | Water | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - <br> Inventory; CA PROP.65: No |  |  |

Regulatory Information
Statement:

This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.

## Section 16. Other Information

## Revision Date:

Additional Information About This Product:

Company Policy or Disclaimer:

04/01/2015
No data available.

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