

Transcription Factor STAT3 Positive Control

Revision: 02/02/2020

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** 601731
Product Name: Transcription Factor STAT3 Positive Control
- 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
- 1.4 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:**
- 2.2 Label Elements:**
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 Precautionary 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.
UFI:
- 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 # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
7365-45-9 TL6809000	HEPES, free acid	0.274 %	230-907-9 NA	No GHS classifications apply.
7791-18-6 OM2975000	Magnesium chloride, hexahydrate	0.05 %	NA NA	No GHS classifications apply.
7447-40-7 TS8050000	Potassium chloride 01-2119539416-36-0000	0.186 %	231-211-8 NA	No GHS classifications apply.
56-81-5 MA8050000	Glycerol 01-2119471987-18-0000	16.5 %	200-289-5 NA	No GHS classifications apply.
3483-12-3 EK1610000	DL-Dithiothreitol	0.047 %	222-468-7 NA	Acute Tox.(O) 4: H302 Skin Corr. 2: H315 Eye Damage 2A: H319

				STOT (SE) 3: H335 H336
60-00-4 AH4025000	Ethylenediamine Tetraacetic Acid 01-2119486399-18	< 0.001 %	200-449-4 607-429-00-8	Eye Damage 2A: H319
30827-99-7 DB8877500	AEBSF	0.003 %	608-547-2 NA	Skin Corr. 1B: H314
58970-76-6 OH2915000	Ubemimex	0.002 %	261-529-2 NA	Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335
103476-89-7 NA	Leupeptin hemisulfate salt	< 0.001 %	600-443-5 NA	No GHS classifications apply.
66701-25-5 RR0390000	2-Oxiranecarboxylic acid, 3-[[[(1S)-1-[[[4-[(aminoiminomethyl)amino]butyl]amino]carbonyl]-3-methylbutyl]amino]carbonyl]-, (2S,3S	< 0.001 %	613-978-4 NA	No GHS classifications apply.
26305-03-3 SC6155000	Pepstatin A	< 0.001 %	247-600-0 NA	No GHS classifications apply.
9087-70-1 YN5080000	Aprotinin	< 0.001 %	232-994-9 NA	No GHS classifications apply.
9048-46-8 MT6446000	Bovine Serum Albumin (BSA)	1.0 %	232-936-2 NA	Acute Tox.(O) 4: H302
67-68-5 PV6210000	Dimethyl sulfoxide, anhydrous 01-2119431362-50	0.974 %	200-664-3 NA	Flam. Liq. 4: H227
819-83-0 UA0600000	Disodium beta-glycerophosphate	0.025 %	212-464-3 NA	No GHS classifications apply.
7681-49-4 WB0350000	Sodium fluoride 01-2119539420-47	0.048 %	231-667-8 009-004-00-7	Acute Tox.(O) 3: H301 Skin Corr. 2: H315 Eye Damage 2: H319 EUH032
13721-39-6 YW1120000	Trisodium orthovanadate	0.021 %	237-287-9 NA	Acute Tox.(O) 4: H302 Acute Tox.(D) 4: H312 Acute Tox.(I) 4: H332
NA NA	IL6 Stimulated HepG2 Nuclear Fraction	0.01 -0.1 %	NA NA	No data available.
7647-14-5 VZ4725000	Sodium chloride 01-2119485491-33-0000	0.368 %	231-598-3 NA	No GHS classifications apply.
7732-18-5 ZC0110000	Water na	80.4 %	231-791-2 NA	No GHS classifications apply.

Section 4. First Aid Measures

4.1 Description of First Aid Measures:

Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

In Case of Ingestion: 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.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Media: Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

Media:

5.2 Flammable Properties and Hazards: No data available.

Hazards:

No data available.

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

6.1 Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.

Protective Equipment and Emergency Procedures: As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental Precautions: Take steps to avoid release into the environment, if safe to do so.

Precautions:

6.3 Methods and Material For Containment and Cleaning Up: Contain spill and collect, as appropriate.

Transfer to a chemical waste container for disposal in accordance with local regulations.

Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling: Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken in Storing: Keep container tightly closed.

Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
56-81-5	Glycerol	ACGIH TLV	TLV: 10 mg/m3	

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56-81-5 Glycerol (continued)	France VL	TWA: 10 mg/m3	
	OSHA PELs	PEL: 15 (dust); 5 (resp.) mg/m3	
	Britain EH40	TWA: 10 mg/m3 () STEL: ()	
7681-49-4 Sodium fluoride	ACGIH TLV	TWA: 2.5 mg/m3	
	France VL	TWA: 2 mg/m3	
	OSHA PELs	TWA: 2.5 mg/m3	

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:

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

Respiratory Equipment (Specify Type): NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash 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: liquid

pH: 7.9

Melting Point: No data.

Boiling Point: No data.

Flash Pt: No data.

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Octanol/Water Partition Coefficient: No data.

Autoignition Pt:	No data.
Decomposition Temperature:	No data.
Viscosity:	No data.
9.2 Other Information	
Percent Volatile:	No data.

Section 10. Stability and Reactivity

10.1 Reactivity:	No data available.
10.2 Stability:	Unstable [] Stable [X]
10.3 Stability Note(s):	Stable if stored in accordance with information listed on the product insert.
Polymerization:	Will occur [] Will not occur [X]
10.4 Conditions To Avoid:	No data available.
10.5 Incompatibility - Materials To Avoid:	No data available.
10.6 Hazardous Decomposition or Byproducts:	No data available.

Section 11. Toxicological Information

11.1 Information on Toxicological Effects:	The toxicological effects of this product have not been thoroughly studied.
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CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7365-45-9	HEPES, free acid	n.a.	n.a.	n.a.	n.a.
7791-18-6	Magnesium chloride, hexahydrate	n.a.	n.a.	n.a.	n.a.
7447-40-7	Potassium chloride	n.a.	n.a.	n.a.	n.a.
56-81-5	Glycerol	n.a.	n.a.	n.a.	n.a.
3483-12-3	DL-Dithiothreitol	n.a.	n.a.	n.a.	n.a.
60-00-4	Ethylenediamine Tetraacetic Acid	n.a.	n.a.	n.a.	n.a.
30827-99-7	AEBSF	n.a.	n.a.	n.a.	n.a.
58970-76-6	Ubenimex	n.a.	n.a.	n.a.	n.a.
103476-89-7	Leupeptin hemisulfate salt	n.a.	n.a.	n.a.	n.a.
66701-25-5	2-Oxiranecarboxylic acid, 3-[[[(1S)-1-[[[4-[(aminoiminomethyl)amino]butyl]amino]carbonyl]-3-methylbutyl]amino]carbonyl]-, (2S,3S	n.a.	n.a.	n.a.	n.a.
26305-03-3	Pepstatin A	n.a.	n.a.	n.a.	n.a.
9087-70-1	Aprotinin	n.a.	n.a.	n.a.	n.a.
9048-46-8	Bovine Serum Albumin (BSA)	n.a.	n.a.	n.a.	n.a.
67-68-5	Dimethyl sulfoxide, anhydrous	n.a.	n.a.	n.a.	n.a.
819-83-0	Disodium beta-glycerophosphate	n.a.	n.a.	n.a.	n.a.
7681-49-4	Sodium fluoride	n.a.	n.a.	n.a.	n.a.
13721-39-6	Trisodium orthovanadate	n.a.	n.a.	n.a.	n.a.
NA	IL6 Stimulated HepG2 Nuclear Fraction	n.a.	n.a.	n.a.	n.a.
7647-14-5	Sodium chloride	n.a.	n.a.	n.a.	n.a.
7732-18-5	Water	n.a.	n.a.	n.a.	n.a.

Section 12. Ecological Information

- 12.1 Toxicity:** Avoid release into the environment.
 Runoff from fire control or dilution water may cause pollution.
- 12.2 Persistence and Degradability:** No data available.
- 12.3 Bioaccumulative Potential:** No data available.
- 12.4 Mobility in Soil:** No data available.
- 12.5 Results of PBT and vPvB assessment:** No data available.
- 12.6 Other adverse effects:** No data available.

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 (ICAO/IATA):**
ICAO/IATA Shipping Name: Not dangerous goods.
UN Number: **Packing Group:**
Hazard Class:
- Additional Transport Information:** Transport in accordance with local, state, and federal regulations.

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)
7365-45-9	HEPES, free acid	No	No	No
7791-18-6	Magnesium chloride, hexahydrate	No	No	No
7447-40-7	Potassium chloride	No	No	No
56-81-5	Glycerol	No	No	No
3483-12-3	DL-Dithiothreitol	No	No	No
60-00-4	Ethylenediamine Tetraacetic Acid	No	Yes 5000 LB	No
30827-99-7	AEBSF	No	No	No
58970-76-6	Ubenimex	No	No	No
103476-89-7	Leupeptin hemisulfate salt	No	No	No
66701-25-5	2-Oxiranecarboxylic acid, 3-[[[(1S)-1-[[[4-[(aminoiminomethyl)amino]butyl]amino]carbonyl]-3-methylbutyl]amino]carbonyl]-,	No	No	No



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	(2S,3S			
26305-03-3	Pepstatin A	No	No	No
9087-70-1	Aprotinin	No	No	No
9048-46-8	Bovine Serum Albumin (BSA)	No	No	No
67-68-5	Dimethyl sulfoxide, anhydrous	No	No	No
819-83-0	Disodium beta-glycerophosphate	No	No	No
7681-49-4	Sodium fluoride	No	Yes 1000 LB	No
13721-39-6	Trisodium orthovanadate	No	No	No
NA	IL6 Stimulated HepG2 Nuclear Fraction	No	No	No
7647-14-5	Sodium chloride	No	No	No
7732-18-5	Water	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists		
7365-45-9	HEPES, free acid	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
7791-18-6	Magnesium chloride, hexahydrate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
7447-40-7	Potassium chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
56-81-5	Glycerol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
3483-12-3	DL-Dithiothreitol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
60-00-4	Ethylenediamine Tetraacetic Acid	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
30827-99-7	AEBSF	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
58970-76-6	Ubenimex	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
103476-89-7	Leupeptin hemisulfate salt	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
66701-25-5	2-Oxiranecarboxylic acid, 3-[[[(1S)-1-[[[4-[(aminoiminomethyl)amino]butyl]amino]carbonyl]-3-methylbutyl]amino]carbonyl]-, (2S,3S	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
26305-03-3	Pepstatin A	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
9087-70-1	Aprotinin	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
9048-46-8	Bovine Serum Albumin (BSA)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory: Active; CA PROP.65: No		
67-68-5	Dimethyl sulfoxide, anhydrous	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
819-83-0	Disodium beta-glycerophosphate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory: Active; CA PROP.65: No		
7681-49-4	Sodium fluoride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
13721-39-6	Trisodium orthovanadate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -		



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		Inventory; CA PROP.65: No
NA	IL6 Stimulated HepG2 Nuclear Fraction	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
7647-14-5	Sodium chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
7732-18-5	Water	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - 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: 02/02/2020

Additional Information About This Product: No data available.

This Product:

Company Policy or Disclaimer: 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.