

Page 1/8

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/19/2020

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# 1 Identification Product identifier Trade name: <u>Transcription Factor PPAR.delta. Primary Antibody</u> Article number: 10007444, 008016 Application of the substance / the mixture For research use only, not for human or veterinary use. Details of the supplier of the safety data sheet

- Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- Information department: Product safety department
   Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

## 2 Hazard(s) identification

#### • **Classification of the substance or mixture** The product is not classified, according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements None
- · Hazard pictograms None
- · Signal word None
- · Hazard statements None
- · Classification system:
- NFPA ratings (scale 0 4)



Health = 0 Fire = 1 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH0Health = 0FIRE1Fire = 1REACTIVITY0Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.

(Contd. on page 2)

Printing date 10/19/2020

Revision date 10/19/2020

#### Trade name: Transcription Factor PPAR.delta. Primary Antibody

(Contd. from page 1)

| -                                   | of the substances listed below with nonhazardous a | additions. |
|-------------------------------------|--|------------|
| Dangerous compon                    | ents:  |            |
| CAS: 56-81-5<br>RTECS: MA8050000    | Glycerol   | 50.0%      |
| Other ingredients                   |  |            |
| CAS: 7732-18-5<br>RTECS: ZC0110000  | Water  | 48.0099%   |
| CAS: 9048-46-8<br>RTECS: MT6446000  | Albumin, bovine                                    | 0.8875%    |
| CAS: 7647-14-5<br>RTECS: VZ4725000  | Sodium chloride                                    | 0.8%       |
| CAS: 77-86-1<br>RTECS: TY2900000    | Trizma base  | 0.3%       |
| CAS: 26628-22-8<br>RTECS: VY8050000 | Sodium azide                                       | 0.0025%    |
|                                     | PPARδ Polyclonal Antibody                          | 0.0001%    |

## **4 First-aid measures**

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

## **5 Fire-fighting measures**

- · Extinguishing media
- Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

(Contd. on page 3)

us

Printing date 10/19/2020

Revision date 10/19/2020

#### Trade name: Transcription Factor PPAR.delta. Primary Antibody

(Contd. from page 2)

| Accidental release measures  |  |                         |  |  |
|--|--|-------------------------|--|--|
| <ul> <li>Environmen</li> <li>Dilute with p</li> <li>Do not allow</li> <li>Methods an</li> <li>Absorb with</li> </ul> | recautions, protective equipment and emergency procedures Not<br>ntal precautions:<br>lenty of water.<br>v to enter sewers/ surface or ground water.<br>nd material for containment and cleaning up:<br>liquid-binding material (sand, diatomite, acid binders, universal binder |                         |  |  |
|  | o other sections   |                         |  |  |
| See Section 7 for information on safe handling.<br>See Section 8 for information on personal protection equipment.   |  |                         |  |  |
| See Section 13 for disposal information.   |  |                         |  |  |
| · Protective Action Criteria for Chemicals   |  |                         |  |  |
| · PAC-1:   |  |                         |  |  |
| 56-81-5  | Glycerol   | 45 mg/m³                |  |  |
| 77-86-1  | Trizma base  | 18 mg/m³                |  |  |
| 26628-22-8   | Sodium azide   | 0.026 mg/m <sup>3</sup> |  |  |
| · PAC-2:   |  |                         |  |  |
| 56-81-5  | Glycerol   | 180 mg/m <sup>3</sup>   |  |  |
| 77-86-1  | Trizma base  | 190 mg/m <sup>3</sup>   |  |  |
| 26628-22-8   | Sodium azide   | 0.29 mg/m <sup>3</sup>  |  |  |
| · PAC-3:   |  |                         |  |  |
| 56-81-5  | Glycerol   | 1,100 mg/m <sup>3</sup> |  |  |
| 77-86-1  | Trizma base  | 1,200 mg/m <sup>3</sup> |  |  |
| 26628-22-8   | Sodium azide   | 5.3 mg/m <sup>3</sup>   |  |  |

## 7 Handling and storage

· Handling:

- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities Keep container tightly closed.

Store in accordance with information listed on the product insert.

- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

(Contd. on page 4)

US

Printing date 10/19/2020

Revision date 10/19/2020

#### Trade name: Transcription Factor PPAR.delta. Primary Antibody

(Contd. from page 3)

| · Control | parameters |
|-----------|------------|
|-----------|------------|

· Components with limit values that require monitoring at the workplace:

#### 56-81-5 Glycerol

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>

mist; \*total dust \*\*respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

· Additional information: The lists that were valid during the creation were used as basis.

#### · Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

· Breathing equipment: Not required.

#### Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles recommended during refilling.

| <ul> <li>Information on basic physical and</li> <li>General Information</li> </ul> | d chemical properties   |
|--|---|
| · Appearance:  |   |
| Form:  | Liquid  |
| Color:   | According to product specification                                      |
| · Odor:  | Characteristic  |
| · Odor threshold:  | Not determined.   |
| Formulation  | 120 μl of anti-PPARδ antibody in TBS, pH 7.4, 50<br>glycerol and 1% BSA |
| <sup>·</sup> pH-value at 20 °C (68 °F):  | 7.4   |
| · Change in condition  |   |
| Melting point/Melting range:   | Undetermined.   |
| Boiling point/Boiling range:   | 100 °C (212 °F)   |
| · Flash point:   | 199 °C (390.2 °F)   |
| · Flammability (solid, gaseous):   | Not applicable.   |

Printing date 10/19/2020

Revision date 10/19/2020

#### Trade name: Transcription Factor PPAR.delta. Primary Antibody

|   | (Contd. from page 4  |
|---|--|
| · Ignition temperature:   | 400 °C (752 °F)  |
| · Decomposition temperature:  | Not determined.  |
| · Auto igniting:  | Product is not selfigniting.   |
| · Danger of explosion:  | Product does not present an explosion hazard.                            |
| <sup>·</sup> Explosion limits:<br>Lower:<br>Upper:  | Not determined.<br>Not determined.                                       |
| · Vapor pressure at 20 °C (68 °F):  | 23 hPa (17.3 mm Hg)  |
| <ul> <li>Density:</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul> | Not determined.<br>Not determined.<br>Not determined.<br>Not determined. |
| <ul> <li>Solubility in / Miscibility with<br/>Water:</li> </ul>   | Fully miscible.  |
| · Partition coefficient (n-octanol/water  | :): Not determined.  |
| <ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> </ul>                                    | Not determined.<br>Not determined.                                       |
| <ul> <li>Solvent content:</li> <li>Organic solvents:</li> <li>Water:</li> <li>VOC content:</li> </ul>   | 50.0 %<br>48.0 %<br>0.00 %<br>0.0 g/l / 0.00 lb/gal                      |
| Solids content:<br>• Other information  | 2.0 %<br>No further relevant information available.                      |

## 10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 6)

US

Printing date 10/19/2020

#### Revision date 10/19/2020

#### Trade name: Transcription Factor PPAR.delta. Primary Antibody

(Contd. from page 5)

| Acute toxicity:  | toxicological effects   |  |
|--|---|--|
| · LD/LC50 values that are relevant for classification:   |   |  |
| 56-81-5 Glycero  |   |  |
| Oral   | LD50  | 12,600 mg/kg (rat)   |
| Irritation of skin   | Irritation  | 500 mg/24h (rabbit)  |
| Irritation of eyes   | Irritation  | 500 mg/24h (rabbit)  |
|  | Intraperitoneal LD50  | 4,420 mg/kg (rat)  |
|  | Subcutaneous LD50   | 100 mg/kg (rat)  |
| Sensitization: N<br>Additional toxic   | rritating effect.<br>lo sensitizing effects k<br>cological information<br>ot subject to classific   |  |
| Sensitization: N<br>Additional toxic<br>The product is n<br>preparations:<br>When used and<br>according to our   | lo sensitizing effects k<br>cological information<br>ot subject to classific<br>handled according to<br>experience and the in   | : ation according to internally approved calculation methods fo  |
| Sensitization: N<br>Additional toxic<br>The product is n<br>preparations:<br>When used and<br>according to our<br>Carcinogenic ca  | lo sensitizing effects k<br>cological information<br>ot subject to classific<br>handled according to<br>experience and the in<br>ategories  | :<br>ation according to internally approved calculation methods fo<br>specifications, the product does not have any harmful effects<br>formation provided to us. |
| Sensitization: N<br>Additional toxic<br>The product is n<br>preparations:<br>When used and<br>according to our<br>Carcinogenic ca<br>IARC (Internatio                      | lo sensitizing effects k<br>cological information<br>ot subject to classific<br>handled according to<br>experience and the in<br>ategories<br>onal Agency for Rese  | :<br>ation according to internally approved calculation methods fo<br>specifications, the product does not have any harmful effects<br>formation provided to us. |
| Sensitization: N<br>Additional toxic<br>The product is n<br>preparations:<br>When used and<br>according to our<br>Carcinogenic ca<br>IARC (Internatic<br>None of the ingre | lo sensitizing effects k<br>cological information<br>ot subject to classific<br>handled according to<br>experience and the in<br>ategories<br>onal Agency for Rese<br>edients is listed.  | :<br>ation according to internally approved calculation methods fo<br>specifications, the product does not have any harmful effects<br>formation provided to us. |
| Sensitization: N<br>Additional toxic<br>The product is n<br>preparations:<br>When used and<br>according to our<br>Carcinogenic ca<br>IARC (Internatic<br>None of the ingre | lo sensitizing effects k<br>cological information<br>ot subject to classific<br>handled according to<br>experience and the in<br>ategories<br>onal Agency for Rese<br>edients is listed.<br>foxicology Program)                       | :<br>ation according to internally approved calculation methods fo<br>specifications, the product does not have any harmful effects<br>formation provided to us. |
| Sensitization: N<br>Additional toxic<br>The product is n<br>preparations:<br>When used and<br>according to our<br>Carcinogenic ca<br>IARC (Internatio<br>None of the ingre | lo sensitizing effects k<br>cological information<br>ot subject to classific<br>handled according to<br>experience and the in<br>ategories<br>onal Agency for Rese<br>edients is listed.<br>foxicology Program)<br>edients is listed. | :<br>ation according to internally approved calculation methods fo<br>specifications, the product does not have any harmful effects<br>formation provided to us. |

# **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

(Contd. on page 7)

US

Printing date 10/19/2020

Revision date 10/19/2020

#### Trade name: Transcription Factor PPAR.delta. Primary Antibody

(Contd. from page 6)

US

## **13 Disposal considerations**

- · Waste treatment methods
- Recommendation: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

## **14 Transport information**

| · UN-Number<br>· DOT, IMDG, IATA   | not regulated   |  |
|--|-----------------|--|
| · UN proper shipping name<br>· DOT, IMDG, IATA   | not regulated   |  |
| · Transport hazard class(es)   |                 |  |
| · DOT, ADN, IMDG, IATA<br>· Class  | not regulated   |  |
| <ul> <li>Packing group</li> <li>DOT, IMDG, IATA</li> </ul>                                   | not regulated   |  |
| · Environmental hazards:   | Not applicable. |  |
| · Special precautions for user   | Not applicable. |  |
| • Transport in bulk according to Annex II of<br>MARPOL73/78 and the IBC Code Not applicable. |                 |  |
| · UN "Model Regulation":   | not regulated   |  |

## **15 Regulatory information**

 $^{\rm \cdot}$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $^{\rm \cdot}$  Sara

| · Section 355 (extremely hazardous substances):   |                                      |        |  |
|---|--------------------------------------|--------|--|
| 26628-22-8 Sodium azide                           |                                      |        |  |
| · Section 313 (Specific toxic chemical listings): |                                      |        |  |
| 26628-22-8  | Sodium azide                         |        |  |
| · TSCA (Tox                                       | TSCA (Toxic Substances Control Act): |        |  |
| 56-81-5   | Glycerol                             | ACTIVE |  |
| 7732-18-5   | Water                                | ACTIVE |  |
| 9048-46-8   | Albumin, bovine                      | ACTIVE |  |
| 7647-14-5   | Sodium chloride                      | ACTIVE |  |
| 77-86-1   | Trizma base                          | ACTIVE |  |
| 26628-22-8  | Sodium azide                         | ACTIVE |  |
| · Hazardous                                       | Hazardous Air Pollutants             |        |  |
| None of the ingredients is listed.                |                                      |        |  |
| (Contd. on page 8)                                |                                      |        |  |

Printing date 10/19/2020

· Proposition 65

Revision date 10/19/2020

#### Trade name: Transcription Factor PPAR.delta. Primary Antibody

(Contd. from page 7)

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· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

26628-22-8 Sodium azide

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

· Contact: -

· Date of preparation / last revision 10/19/2020 / -· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety **OSHA: Occupational Safety & Health** TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** 

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