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Safety Data Sheet acc. to OSHA HCS

Printing date 04/17/2020

Revision date 04/17/2020

1 Identification

· Product identifier

- · Trade name: SETD3 (human, recombinant)
- · Synonym

Actin Histidine Methyltransferase; Histone-Lysine N-Methyltransferase SETD3; HSETD3; SET Domaincontaining Protein 3

- · Article number: 27355
- 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)



· HMIS-ratings (scale 0 - 4)

HEALTHIFIRE1REACTIVITYReactivity = 0

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

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 Chemical characteri Description: Mixture 	zation: Mixtures of the substances listed below with nonhazardous additions.	
· Dangerous compon	ents:	
CAS: 7732-18-5 RTECS: ZC0110000	Water	>87.93%
CAS: 56-81-5 RTECS: MA8050000	Glycerol	10.0%
· Other ingredients		
CAS: 7365-45-9 RTECS: TL6809000	HEPES, free acid	1.19%
CAS: 7647-14-5 RTECS: VZ4725000	Sodium chloride	0.88%
	SETD3 Protein	< 0.3%

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.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

- · Environmental precautions:
- Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

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Absorb with Reference See Sectio See Sectio See Sectio	 Ind material for containment and cleaning up: h liquid-binding material (sand, diatomite, acid binders, universal binders, sawdu to other sections n 7 for information on safe handling. n 8 for information on personal protection equipment. n 13 for disposal information. Action Criteria for Chemicals 	ust).
· PAC-1:		
56-81-5	Glycerol	45 mg/m³
7365-45-9	HEPES, free acid	30 mg/m ³
· PAC-2:		
56-81-5	Glycerol	180 mg/m³
7365-45-9	HEPES, free acid	330 mg/m³
· PAC-3:		
56-81-5	Glycerol	1,100 mg/m³
7365-45-9	HEPES, free acid	2,000 mg/m³

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.

· Control parameters

Components with limit values that require monitoring at the workplace:

•••	
7732	-18-5 Water
PEL	Long-term value: 10 ppm Ceiling limit value: 0.29** mg/m ³ , 0.11* ppm *as HN3 vapor **as NaN3
TLV	Long-term value: 10 ppm Ceiling limit value: 0.29** mg/m ³ , 0.11* ppm *as HN3 vapor **as NaN3
56-8 ⁻	1-5 Glycerol
PEL	Long-term value: 15* 5** mg/m ³ mist; *total dust **respirable fraction
TLV	TLV withdrawn-insufficient data human occup. exp.
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· 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.

9 Physical and chemical prope	rties
 Information on basic physical and General Information Appearance: 	chemical properties
Form:	50 mM HEPES, pH 8.0, with 150 mM sodium chloride and 10% glycerol
Color:	According to product specification
· Odor:	Characteristic
Odor threshold:	Not determined.
· pH-value at 20 °C (68 °F):	8
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 100 °C (212 °F)
· Flash point:	199 °C (390.2 °F)
· Flammability (solid, gaseous):	Not applicable.
· 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.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
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Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octano	I/water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	10.0 %	
Water:	>87.9 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	2.1 %	
Other information	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.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification:

56-81-5 Glycerol

-		
Oral		12,600 mg/kg (rat)
Irritation of skin	Irritation	500 mg/24h (rabbit)
Irritation of eyes	Irritation	500 mg/24h (rabbit)
	Intraperitoneal LD50	
	Subcutaneous LD50	100 mg/kg (rat)

Primary irritant effect:

- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

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• Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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.

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.

· UN-Number		
· DOT, IMDG, IATA	not regulated	
· UN proper shipping name		
DOT, IMDG, IATA	not regulated	

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· Transport hazard class(es)		
[·] DOT, ADN, IMDG, IATA [·] Class	not regulated	
· Packing group · DOT, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
 Transport in bulk according to Anne MARPOL73/78 and the IBC Code 	x II of Not applicable.	
· UN "Model Regulation":	not regulated	

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara

ection 313 (Specific toxic chemical listings): one of the ingredients is listed. SCA (Toxic Substances Control Act): 732-18-5 Water 56-81-5 Glycerol 365-45-9 HEPES, free acid 647-14-5 Sodium chloride azardous Air Pollutants one of the ingredients is listed. roposition 65 hemicals known to cause cancer: one of the ingredients is listed. one of the ingredients is listed. hemicals known to cause reproductive toxicity for females: one of the ingredients is listed.	ACTIVE ACTIVE ACTIVE ACTIVE
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one of the ingredients is listed.	
hemicals known to cause reproductive toxicity for males:	
······································	
one of the ingredients is listed.	
hemicals known to cause developmental toxicity:	
one of the ingredients is listed.	
arcinogenic categories	
PA (Environmental Protection Agency)	
one of the ingredients is listed.	
LV (Threshold Limit Value established by ACGIH)	
one of the ingredients is listed.	

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

None of the ingredients is listed.

· GHS label elements None

· Hazard pictograms None

· Signal word None

· Hazard statements None

· 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 04/17/2020 / -

· 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** * * Data compared to the previous version altered.