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Safety Data Sheet

acc. to OSHA HCS

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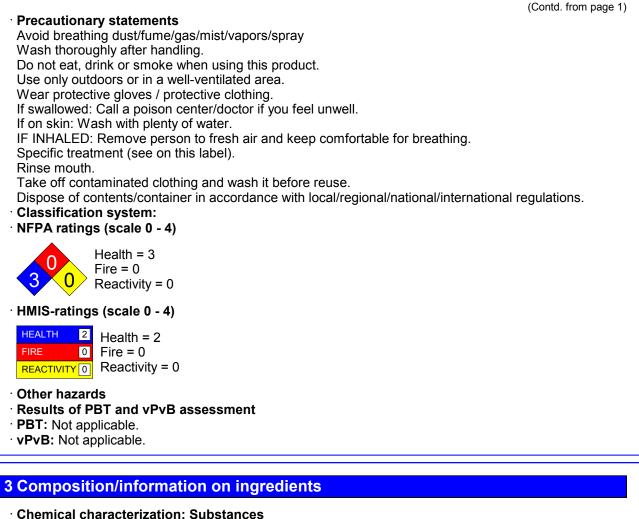
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1 Identification · Product identifier Trade name: Pioglitazone · Svnonvm 5-[[4-[2-(5-ethyl-2-pyridinyl)ethoxy]phenyl]methyl]-2,4-thiazolidinedione U-72107 · Article number: 71745 · CAS Number: 111025-46-8 · EC number: 601-029-7 • Application of the 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 GHS07 Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H312 Harmful in contact with skin. Acute Tox, 4 H332 Harmful if inhaled. · Label elements · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS07 · Signal word Warning · Hazard statements Harmful if swallowed, in contact with skin or if inhaled. (Contd. on page 2) US

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- · CAS No. Description
- 111025-46-8 Pioglitazone
- · Identification number(s)
- EC number: 601-029-7

4 First-aid measures

· Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

 After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- 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: Immediately call a doctor.

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- · 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: Mouth respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Ensure adequate ventilation.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- · PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.

7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Thorough dedusting. Ensure good ventilation/exhaustion at the workplace.
- · 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: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

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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:
- The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

At this time, the other constituents have no known exposure limits.

- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

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.

· 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: Not required.

9 Physical and chemical properties

- Information on basic physical and chemical properties
- · General Information

· Appearance:	
Form:	Crystalline
Color:	Not determined.
· Odor:	Characteristic
 Structural Formula 	C19H20N2O3S
 Molecular Weight 	356.4 g/mol
· Odor threshold:	Not determined.

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· pH-value:	Not applicable.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
 Explosion limits: Lower: Upper: 	Not determined. Not determined.
· Vapor pressure:	Not applicable.
 Density: Relative density Vapor density Evaporation rate 	Not determined. Not determined. Not applicable. Not applicable.
 Solubility in / Miscibility with Water: 	Not determined.
· Partition coefficient (n-octanol/wat	ter): Not determined.
 Viscosity: Dynamic: Kinematic: SOLUBILITY 	Not applicable. Not applicable. ~0.1 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2); ~2.5 mg/ ml in DMSO & DMF
· 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: strong oxidizing agents
- · Hazardous decomposition products: carbon oxides,, hydrogen sulfide, nitrogen oxides

11 Toxicological information

• RTECS Number XJ5813430

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		ical effects
	e toxicity:	relevant for classification:
	TDLO	18.34 ml/kg/7D intermittent (mouse)
orui	Intraperitoneal TDLO	J J J J J J J J J J J J J J J J J J J
· Prim	ary irritant effect:	
[·] on tl [·] on tl · Sens	ne skin: No irritant eff ne eye: No irritating eff sitization: No sensitiz itional toxicological	fect. ing effects known.
· Carc · IARC · NTP	inogenic categories C (International Agen (National Toxicolog	
2 Eco	logical information	on
· Addi · Gen	tional ecological inf	relevant information available. ormation:
Do n syste · Res · PBT · vPvI	ot allow undiluted pro em. ults of PBT and vPvE : Not applicable. 3: Not applicable.	-assessment): slightly hazardous for water oduct or large quantities of it to reach ground water, water course or sewa 3 assessment o further relevant information available.
Do n syste · Resi · PBT · vPvI · Othe	er hazard class 1 (Self ot allow undiluted pro em. ults of PBT and vPvE Not applicable. 3: Not applicable.	educt or large quantities of it to reach ground water, water course or sewa 3 assessment 9 further relevant information available.
Do n syste · Resu · PBT · vPvI · Othe 3 Dis · Was · Reco	er hazard class 1 (Self ot allow undiluted pro- em. ults of PBT and vPvE Not applicable. B: Not applicable. er adverse effects Not posal consideration te treatment method pmmendation: t not be disposed of	aduct or large quantities of it to reach ground water, water course or sewa a assessment further relevant information available.
Do n syste PBT VPvI Othe 3 Dis Was Reco Mus syste	er hazard class 1 (Self ot allow undiluted pro- m. ults of PBT and vPvE : Not applicable. B: Not applicable. er adverse effects Not posal consideration te treatment method pommendation: t not be disposed of em. eaned packagings:	aduct or large quantities of it to reach ground water, water course or sewa assessment of urther relevant information available. Cons s
Do n syste · Resi · PBT · vPvI · Othe · Was · Was · Reco · Mus · syste · Uncl · Reco	er hazard class 1 (Self ot allow undiluted pro- m. ults of PBT and vPvE : Not applicable. B: Not applicable. er adverse effects Not posal consideration te treatment method pommendation: t not be disposed of em. eaned packagings:	aduct or large quantities of it to reach ground water, water course or sewa assessment of further relevant information available. Cons s together with household garbage. Do not allow product to reach sewa sal must be made according to official regulations.
Do n syste PBT VPVI Othe 3 Dis Was Reco Mus syste Reco 4 Trai	er hazard class 1 (Self ot allow undiluted pro- em. ults of PBT and vPvE : Not applicable. 3: Not applicable. ar adverse effects Not posal consideration te treatment method pommendation: t not be disposed of em. eaned packagings: pommendation: Dispose	aduct or large quantities of it to reach ground water, water course or sewa assessment of further relevant information available. Cons s together with household garbage. Do not allow product to reach sewa sal must be made according to official regulations.

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

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

- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is listed.
- Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value established by ACGIH) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not 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 10/27/2020 / -
- 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

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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 Acute Tox 4: Acute toxicity – Category 4

Acute Tox. 4: Acute toxicity – Category 4 • * Data compared to the previous version altered.