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Safety Data Sheet acc. to OSHA HCS

Printing date 05/10/2021

Revision date 05/10/2021

Product id	entifier
Synonym	
CAS Numb 152121-47- EC numbe 688-252-3 Application This produc	6
	sworth Rd.
Emergency During norr US/CANAD	n department: Product safety department / telephone number: nal opening times: +1 (734) 971-3335 /A: 800-424-9300 /CANADA: 703-741-5970
	\ identitiestion
) identification
	ion of the substance or mixture
Classificat	·
Classificat	ion of the substance or mixture
Classificat	ion of the substance or mixture HS05 Corrosion
Classificat G Eye Dam. 1	ion of the substance or mixture HS05 Corrosion H318 Causes serious eye damage.
Classificat G Eye Dam. 1	ion of the substance or mixture HS05 Corrosion H318 Causes serious eye damage. HS07 4 H302 Harmful if swallowed.

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· Hazard pictog	rams	(Contd. from page 1)
GHS05 GHS	607	
· Signal word D	anger	
· Hazard statem		
H302 Harmful i		
	serious eye damage.	
• Precautionary		
P264	Wash thoroughly after handling.	
P270	Do not eat, drink or smoke when using this prod	uct.
P280	Wear eye protection / face protection.	
P301+P312	If swallowed: Call a poison center/doctor if you for	eel unwell.
P330	Rinse mouth.	
P305+P351+P3	338 If in eyes: Rinse cautiously with water for severa present and easy to do. Continue rinsing.	al minutes. Remove contact lenses, if
P310	Immediately call a poison center/doctor.	
P501	Dispose of contents/container in accordance wit regulations.	h local/regional/national/international
Classification	•	
· NFPA ratings (
NFFATaunys	(Scale 0 - 4)	
н	ealth = 3	
	re = 0	
	eactivity = 0	
HMIS-ratings ((scale 0 - 4)	
HEALTH *3 H	Health = *3	
•	Fire = 0	
REACTIVITY 0	Reactivity = 0	
· Other hazards		
	T and vPvB assessment	
• PBT: Not applie		
· vPvB: Not app	licable.	
3 Compositio	n/information on ingredients	
	racterization: Substances	
CAS No. Desc		
152121-47-6 S		
 Identification i 		
· EC number: 68	88-252-3	
		US
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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; 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. Then consult a doctor.
- · After swallowing: Immediately call a 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 Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

- 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.
- · Information about protection against explosions and fires: No special measures required.

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- · Conditions for safe storage, including any incompatibilities
- · 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.

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: Not required.
- Additional information: The lists that were valid during the creation were used as basis.

• Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes.
- Avoid contact with the eyes and skin.
- Breathing equipment: Not required.
- 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:



Tightly sealed goggles

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9 Physical and chemical properties					
· Information on basic physical and chemical properties · General Information					
· Appearance: Form:	Crystalline				
Color:	Not determined.				
· Odor: · Structural Formula	Characteristic C21H16FN3OS				
 Molecular Weight Odor threshold: 	377.4 g/mol Not determined.				
· 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/wate	er): Not determined.				
 Viscosity: Dynamic: Kinematic: SOLUBILITY 	Not applicable. Not applicable. ~0.5 mg/ml in a 1:9 solution of DMF:PBS (pH 7.2); ~0.2, 10, 20 mg/ml in EtOH, 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.

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- · Conditions to avoid No further relevant information available.
- · Incompatible materials: oxidizing agents
- Hazardous decomposition products:
- carbon oxidees, hydrogen fluoride, nitrogen oxides, sulfur oxides

11 Toxicological information

- · RTECS Number UT3967600
- Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

- Oral TDLO 50 mg/kg (rat)
 - Subcutaneous TDLO 377,440 ng/kg (mouse)

Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not 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.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · 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:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

Transport information		
UN-Number DOT, IMDG, IATA	not regulated	
	not regulated	
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 Annex MARPOL73/78 and the IBC Code	k II of Not applicable.	
UN "Model Regulation":	not regulated	

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · 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 not 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) 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

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of

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(Contd. from page 7) these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.
 Department issuing SDS: Environment protection department. Contact: - Date of preparation / last revision 05/10/2021 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport association 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) 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 Eye Dam. 1: Serious eye damage/eye irritation – Category 1