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### **1** Identification

- · Product identifier
- · Trade name: Rufinamide
- · Article number: 18870
- CAS Number: 10630-84-4
- Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic 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

GHS08 Health hazard	
Carcinogenicity 2	H351 Suspected of causing cancer.
Toxic to Reproduction 2	H361 Suspected of damaging fertility or the unb child.
GHS07	e Exposure 3 H336 May cause drowsiness or dizziness.

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	/ <b>- -</b>
· Hazard pictograms	(Contd. from page 1)
$\mathbf{V}$ $\mathbf{W}$	
GHS07 GHS08	
· Signal word Warning	
· Hazard statements	
H351 Suspected of causing cancer.	
H361 Suspected of damaging fertility or the unborn child.	
H336 May cause drowsiness or dizziness.	
Precautionary statements	
P201 Obtain special instructions before use.	
P202 Do not handle until all safety precautions have been read and unders	stood.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray	
P271 Use only outdoors or in a well-ventilated area.	
P280 Wear protective gloves/protective clothing/eye protection/face protect	tion.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for b	reathing.
P308+P313 IF exposed or concerned: Get medical advice/attention.	
P312 Call a poison center/doctor if you feel unwell.	
P403+P233 Store in a well-ventilated place. Keep container tightly closed.	
P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional	/national/international
regulations.	
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = $0$	
Fire = $0$	
0 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
FIRE <b>O</b> Fire = 0	
REACTIVITY O Reactivity = 0	
· Other hazards	
<ul> <li>Results of PBT and vPvB assessment</li> </ul>	
· <b>PBT:</b> Not applicable.	
• <b>vPvB:</b> Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances	
CAS No. Description	
10630-84-4 Rufinamide	

## 4 First-aid measures

· Description of first aid measures

• After inhalation: Supply fresh air; consult doctor in case of complaints.

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- · 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: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: 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
- No special precautions are necessary if used correctly. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.
- Keep away from sources of ignition.
- Take precautionary measures against static discharge re.
- 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: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.

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- · 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: 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.
- Wash hands before breaks and at the end of work.
- · 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 guality 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.

Information on basic physical and General Information Appearance:		
Form:	Crystalline	
Color:	Not determined.	
Odor:	Characteristic	
Structural Formula	C10H8F2N4O	
Molecular Weight	238.2 g/mol	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Product is not flammable.	

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· Decomposition temperature:	Not determined.	
· Auto igniting:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not applicable.	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
<ul> <li>Evaporation rate</li> </ul>	Not applicable.	
· Solubility in / Miscibility with		
Water:	Not determined.	
· Partition coefficient (n-octanol/wat	ter): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
SOLUBILITY	~0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2); ~10 mg/m in DMSO; ~2 mg/ml in 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 fluoride, nitrogen oxides

## **11 Toxicological information**

- · RTECS Number XZ4201000
- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- 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.

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### · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

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## **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:

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

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

## **14 Transport information**

UN-Number DOT, IMDG, IATA	not regulated	
· UN proper shipping name · DOT, IMDG, IATA	not regulated	
Transport hazard class(es)		
<sup>·</sup> DOT, ADN, IMDG, IATA <sup>·</sup> Class	not regulated	
· Packing group · DOT, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	Il of Not applicable.	
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· 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 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 10/10/2022
- Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) 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 Carcinogenicity 2: Carcinogenicity - Category 2 Toxic to Reproduction 2: Reproductive toxicity - Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 \* \* Data compared to the previous version altered.