

## Safety Data Sheet

acc. to OSHA HCS

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### **1 Identification**

### Product identifier

- <sup>·</sup> Trade name: <u>GSK4112</u>
- · **Synonym** N-[(4-chlorophenyl)methyl]-N-[(5-nitro-2-thienyl)methyl]-glycine, 1,1-dimethylethyl ester · **CAS Number:**
- 1216744-19-2
- · Other means of identification
- · Article number: 11931
- **EC number:** 106-300-9
- **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

Classification of the substance or mixture
 GHS08 Health hazard
 Sensitization - respiratory 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 GHS05 Corrosion
 Eye damage 1 H318 Causes serious eye damage.
 Label elements
 GHS label elements
 The substance is classified and labeled according to the Globally Harmonized System (GHS).

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GHS05 GHS08
<ul> <li>Signal word Danger</li> <li>Hazard statements</li> <li>H318 Causes serious eye damage.</li> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> </ul>
· Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P280 Wear eye protection / face protection.
P284[In case of inadequate ventilation] wear respiratory protection.P304+P340If inhaled: Remove person to fresh air and keep comfortable for breathing.P305+P351+P338If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a poison center/doctor.
P342+P311If experiencing respiratory symptoms: Call a poison center/doctor.P501Dispose of contents/container in accordance with local/regional/national/international regulations.
<ul> <li>Information pertaining to particular dangers for man and environment:</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>Health = 3 Fire = 0 Reactivity = 0</li> </ul>
· HMIS-ratings (scale 0 - 4)
HEALTH       *3         FIRE       0         Fire = 0         REACTIVITY       0
<ul> <li>Other hazards</li> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> </ul>
<ul> <li>Classification according to (d)(1)(ii) of § 1910.12000</li> <li>The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.</li> </ul>
Hazards not otherwise classified
There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.
3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description 1216744-19-2 GSK4112

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### Identification number(s)

· EC number: 106-300-9

### 4 First-aid measures

- · Description of first aid measures
- · 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: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed 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 section 13.
- Protective Action Criteria for Chemicals
- **PAC-1:** Substance is not listed.
- · PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.
- 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.

## 7 Handling and storage

- **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
- Storage: Store in accordance with information listed on the product insert.

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- · 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

- 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
- Appropriate engineering controls No further data; see section 7.
- 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:

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:



Tightly sealed goggles

## 9 Physical and chemical properties

- Information on basic physical and chemical properties
- · General Information
- Physical state
- · Color:

Solid Not determined.

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· Odor:	Characteristic
· Structural Formula	C18H21CIN2O4S
· Molecular Weight	396.9 g/mol
· Storage Buffer	° °
· Odor threshold:	Not determined.
· Formulation	
<ul> <li>Melting point/Melting range:</li> </ul>	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flammability:	Product is not flammable.
Explosion limits:	
Lower:	Not determined.
· Upper:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	Not determined.
pH-value:	Not applicable.
· Viscosity:	
· Kinematic:	Not applicable.
· SOLUBILITY	DMF: 3 mg/ml; DMSO: 10 mg/ml; Ethanol: 1 mg/ml
· Dynamic:	Not applicable.
<ul> <li>Solubility in / Miscibility with</li> </ul>	
· Water:	Not determined.
<ul> <li>Partition coefficient (n-octanol/water):</li> </ul>	Not determined.
· Vapor pressure:	Not applicable.
· Vapor pressure:	
<sup>.</sup> Density:	Not determined.
Relative density	Not determined.
· Vapor density	Not applicable.
• Particle characteristics	Not determined.
• Other information	
· Appearance:	
· Form:	Solid
Important information on protection of heal	lth
and environment, and on safety.	
Ignition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Change in condition	· ·
· Evaporation rate	Not applicable.
·	· ·

## **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

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### · Hazardous decomposition products:

carbon dioxide, carbon monoxide, hydrogen sulfide, nitrogen oxides, phosgene

### **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through inhalation.
- Additional toxicological information:
- · Interactive effects No interactive effects between components are known.
- · 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.
- Alternative sources for toxicological information
- No non-standard sources for toxicological information where used.

## **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects
- · 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.

## **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.

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UN-Number	
DOT, IMDG, IATA	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.
Transport in bulk according to Annex	c II of
MARPOL73/78 and the IBC Code	Not applicable.
Special precautions for user	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.
- · 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.

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· Contact: -	
· Date of previous version 09/30/2022	
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· 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)	
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	
Eye damage 1: Serious eye damage/eye irritation – Category 1	
Sensitization - respiratory 1: Respiratory sensitisation – Category 1	
* * Data compared to the previous version altered.	
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