

SAFETY DATA SHEET Tasisulam

Revision: 08/23/2017

| | | Identification of the Cubeterre Mintum and fill | o Component/Understations | | | | |
|------------|--|--|---------------------------|--|--|--|--|
| | Section 1. | Identification of the Substance/Mixture and of th | le Company/Undertaking | | | | |
| 1.1 | Product Code: | 21556 | | | | | |
| | Product Name: | Tasisulam | | | | | |
| | Synonyms: | N-[(5-bromo-2-thienyl)sulfonyl]-2,4-dichloro-be | nzamide; LY573636; | | | | |
| 1.2 | Relevant identified uses of the substance or mixture and uses advised against: | | | | | | |
| | Relevant identified uses: For research use only, not for human or veterinary use. | | | | | | |
| 1.3 | Details of the Supplier of the Safety Data Sheet: | | | | | | |
| | Company Name: | Cayman Chemical Company | | | | | |
| | | 1180 E. Ellsworth Rd. | | | | | |
| | | Ann Arbor, MI 48108 | | | | | |
| | Web site address: | www.caymanchem.com | 4 (704)074 0005 | | | | |
| | Information: | Cayman Chemical Company | +1 (734)971-3335 | | | | |
| 1.4 | Emergency telephone nu | | | | | | |
| | Emergency Contact: | CHEMTREC Within USA and Canada: | +1 (800)424-9300 | | | | |
| | | CHEMTREC Outside USA and Canada: | +1 (703)527-3887 | | | | |
| | | Section 2. Hazards Identifica | ation | | | | |
| | | | | | | | |
| 2.1 | Classification of the Subs | stance or Mixture: | | | | | |
| 2.1 | | | | | | | |
| 2.1 | Serious Eye Damage/Ey | ye Irritation, Category 2 | | | | | |
| 2.1 2.2 | | ye Irritation, Category 2 | | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate | ye Irritation, Category 2 | | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate | ye Irritation, Category 2 | | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate Label Elements: | ye Irritation, Category 2 egory 1 | | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate Label Elements: GHS Signal Word: | ye Irritation, Category 2 egory 1 Warning | | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: | ye Irritation, Category 2 egory 1 Warning rgic skin reaction. | | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller | ye Irritation, Category 2 egory 1 Warning rgic skin reaction. re irritation. | | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H319: Causes serious ey GHS Precaution Phrase | ye Irritation, Category 2 egory 1 Warning rgic skin reaction. re irritation. | | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H319: Causes serious ey GHS Precaution Phrase | ye Irritation, Category 2 egory 1 Warning rgic skin reaction. re irritation. es: ust/fume/gas/mist/vapors/spray}. | | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H319: Causes serious ey GHS Precaution Phrase P261: Avoid breathing {dr | ye Irritation, Category 2 egory 1 Warning rgic skin reaction. re irritation. es: ust/fume/gas/mist/vapors/spray}. | Э. | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H319: Causes serious ey GHS Precaution Phrase P261: Avoid breathing (dr P264: Wash (hands) thor P272: Contaminated word | ye Irritation, Category 2 egory 1 Warning rgic skin reaction. re irritation. es: ust/fume/gas/mist/vapors/spray}. roughly after handling. | | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H319: Causes serious ey GHS Precaution Phrase P261: Avoid breathing (dr P264: Wash (hands) thor P272: Contaminated word | ye Irritation, Category 2 egory 1 Warning rgic skin reaction. re irritation. es: ust/fume/gas/mist/vapors/spray}. roughly after handling. k clothing should not be allowed out of the workplace loves/protective clothing/eye protection/face protection | | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H319: Causes serious ey GHS Precaution Phrase P261: Avoid breathing (dr P264: Wash (hands) thor P272: Contaminated word P280: Wear {protective gr | ye Irritation, Category 2 egory 1 Warning rgic skin reaction. re irritation. es: ust/fume/gas/mist/vapors/spray}. roughly after handling. k clothing should not be allowed out of the workplace loves/protective clothing/eye protection/face protection | | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H319: Causes serious ey GHS Precaution Phrase P261: Avoid breathing {dr P264: Wash {hands} thor P272: Contaminated word P280: Wear {protective gi GHS Response Phrases P302+352: IF ON SKIN: Y | ye Irritation, Category 2 egory 1 Warning rgic skin reaction. re irritation. es: ust/fume/gas/mist/vapors/spray}. roughly after handling. k clothing should not be allowed out of the workplace loves/protective clothing/eye protection/face protection | on}. | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H319: Causes serious ey GHS Precaution Phrase P261: Avoid breathing {dr P264: Wash {hands} thor P272: Contaminated word P280: Wear {protective gi GHS Response Phrases P302+352: IF ON SKIN: Y | ye Irritation, Category 2 egory 1 Warning rgic skin reaction. re irritation. es: ust/fume/gas/mist/vapors/spray}. roughly after handling. k clothing should not be allowed out of the workplace loves/protective clothing/eye protection/face protection s: Wash with plenty of soap and water. | on}. | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H319: Causes serious ey GHS Precaution Phrase P261: Avoid breathing {dr P264: Wash {hands} thor P272: Contaminated word P280: Wear {protective g GHS Response Phrases P302+352: IF ON SKIN: Y P305+351+338: IF IN EY to do. Continue rinsing. | ye Irritation, Category 2 egory 1 Warning rgic skin reaction. re irritation. es: ust/fume/gas/mist/vapors/spray}. roughly after handling. k clothing should not be allowed out of the workplace loves/protective clothing/eye protection/face protection s: Wash with plenty of soap and water. | on}. | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H319: Causes serious ey GHS Precaution Phrase P261: Avoid breathing {dr P264: Wash {hands} thor P272: Contaminated word P280: Wear {protective gi GHS Response Phrases P302+352: IF ON SKIN: N P305+351+338: IF IN EY to do. Continue rinsing. P333+313: If skin irritation | ye Irritation, Category 2 egory 1 Warning rgic skin reaction. re irritation. es: ust/fume/gas/mist/vapors/spray}. roughly after handling. k clothing should not be allowed out of the workplace loves/protective clothing/eye protection/face protection s: Wash with plenty of soap and water. 'ES: Rinse cautiously with water for several minutes. | on}. | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H319: Causes serious ey GHS Precaution Phrase P261: Avoid breathing (dr P264: Wash (hands) thor P272: Contaminated word P280: Wear {protective g GHS Response Phrases P302+352: IF ON SKIN: N P305+351+338: IF IN EY to do. Continue rinsing. P333+313: If skin irritation P337+313: If eye irritation | ye Irritation, Category 2 egory 1 Warning rgic skin reaction. re irritation. es: ust/fume/gas/mist/vapors/spray}. roughly after handling. k clothing should not be allowed out of the workplace loves/protective clothing/eye protection/face protection s: Wash with plenty of soap and water. 'ES: Rinse cautiously with water for several minutes. n or rash occurs, seek medical advice/attention. | on}. | | | | |
| | Serious Eye Damage/Ey Skin Sensitization, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H317: May cause an aller H319: Causes serious ey GHS Precaution Phrase P261: Avoid breathing (dr P264: Wash (hands) thor P272: Contaminated word P280: Wear {protective g GHS Response Phrases P302+352: IF ON SKIN: N P305+351+338: IF IN EY to do. Continue rinsing. P333+313: If skin irritation P337+313: If eye irritation | ye Irritation, Category 2 agory 1 Warning rgic skin reaction. re irritation. PS: ust/fume/gas/mist/vapors/spray}. roughly after handling. k clothing should not be allowed out of the workplace loves/protective clothing/eye protection/face protection s: Wash with plenty of soap and water. 'ES: Rinse cautiously with water for several minutes. n or rash occurs, seek medical advice/attention. n persists, get medical advice/attention. aminated clothing and wash it before reuse. | on}. | | | | |

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|-------------|--|--|---|--|-------------------------|---|--|
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| 2.3 | Adverse Human Health Causes serious eye irritation. Effects and Symptoms: Material may be irritating to the m May be harmful by inhalation, ing May cause an allergic skin reaction May cause skin or respiratory system To the best of our knowledge, the | | | he mucous membra , ingestion, or skin ; eaction. y system irritation. | absorption. | | |
| | | Sec | tion 3. Composition | /Information | on Ingredie | nts | |
| CAS RTEC | | Hazardous Com REACH Registra | oonents (Chemical Name)/ tion No. | Concentration | EC No./ EC Index No. | GHS Classification | |
| 51908 NA | 55-62-0 | Tasisulam | | 100.0 % | NA NA | Eye Damage 2: H319 Skin Sens. 1: H317 | |
| | | | Section 4. Fi | rst Aid Meas | ures | | |
| 4.1 | Measu | ption of First Aid res: e of Inhalation: | | | al respiration or giv | ve oxygen by trained personnel. | |
| | | e of Skin Contact: e of Eye Contact: | Get immediate medical attention. Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined | | | | |
| | In Case | e of Ingestion: | and tested by medical persor Wash out mouth with water p unconscious person. Get med medical personnel. | rovided person is c | - | ive anything by mouth to an ng unless directed to do so by | |
| | | | Section 5. Fire | Fighting Me | asures | | |
| 5.1 | Media: | able Extinguishing | Use alcohol-resistant foam, o Use water spray to cool fire-o A solid water stream may be | exposed containers | - | spray. | |
| 5.2 | Flamm Hazard | • | d No data available. | | | | |
| | - | Pt: ive Limits: nition Pt: | No data available. No data. LEL: No data. No data. | UEL: No d | lata. | | |
| 5.3 | - | | s: As in any fire, wear self-conta equivalent), and full protectiv | | | | |
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| | | Section 6. Accidental Release Measures | | | | | |
|-------|-----------------------------|---|--|--|--|--|--|
| 6.1 | Protective Precautions, | Avoid raising and breathing dust, and provide adequate ventilation. | | | | | |
| | Protective Equipment and | As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, | | | | | |
| | Emergency Procedures: | and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). | | | | | |
| 6.2 | Environmental | | | | | | |
| | Precautions: | | | | | | |
| 6.3 | | Contain spill and collect, as appropriate. | | | | | |
| | - | Transfer to a chemical waste container for disposal in accordance with local regulations. | | | | | |
| | Up: | | | | | | |
| | | Section 7. Handling and Storage | | | | | |
| 7.1 | | Avoid breathing dust/fume/gas/mist/vapours/spray. | | | | | |
| | | Avoid prolonged or repeated exposure. | | | | | |
| 7.2 | | Keep container tightly closed. | | | | | |
| | in Storing: | Store in accordance with information listed on the product insert. | | | | | |
| | Secti | on 8. Exposure Controls/Personal Protection | | | | | |
| 8.1 | Exposure Parameters: | | | | | | |
| 8.2 | Exposure Controls: | | | | | | |
| 8.2.1 | | Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne | | | | | |
| | , | (Ventilation etc.): levels below recommended exposure limits. | | | | | |
| 8.2.2 | Personal protection equip | | | | | | |
| | - | Safety glasses | | | | | |
| | | Compatible chemical-resistant gloves | | | | | |
| | Other Protective Clothing: | | | | | | |
| | | NIOSH approved respirator, as conditions warrant. | | | | | |
| | (Specify Type): | | | | | | |
| | | ic/Maintenan Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. | | | | | |
| | | Wash thoroughly after handling. | | | | | |
| | | No data available. | | | | | |
| | Se | ection 9. Physical and Chemical Properties | | | | | |
| 9.1 | | cal and Chemical Properties | | | | | |
| | Physical States: | []Gas []Liquid [X]Solid | | | | | |
| | Appearance and Odor: | A solid | | | | | |
| | pH: | No data. | | | | | |
| | Melting Point: | No data. | | | | | |
| | Boiling Point: | No data. | | | | | |
| | Flash Pt: | No data. | | | | | |
| | Evaporation Rate: | No data. | | | | | |
| | Flammability (solid, gas): | No data available. | | | | | |
| | Explosive Limits: | LEL: No data. UEL: No data. | | | | | |
| | Vapor Pressure (vs. Air or | mm No data. | | | | | |
| | Hg): | | | | | | |
| | Vapor Density (vs. Air = 1) | No data. | | | | | |
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| | | Multi-region format | | | | | |

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| | Specific | Gravity (Water = | 1): No data. | | | | | |
|------|-------------------------|----------------------|---|-----------------|----------------------|-------------------|---------|---------------------|
| | Solubilit | y in Water: | No data. | | | | | |
| | Solubilit | y Notes: | Soluble in: DM | ISO; | | | | |
| | Octanol/Water Partition | | No data. | | | | | |
| | Coefficie | ent: | | | | | | |
| | Autoigni | tion Pt: | No data. | | | | | |
| | - | osition Temperat | re: No data. | | | | | |
| | Viscosit | - | No data. | | | | | |
| 9.2 | Other Inf | | | | | | | |
| 0.2 | Percent | | No data. | | | | | |
| | | ar Formula & Weig | | 0252 /1 | 5.1 | | | |
| | Wolecula | | | 41 | 5.1 | | | |
| | | | Section 10. | Stability | and Reacti | vity | | |
| 10.1 | Reactivit | - | No data available. | | | | | |
| 10.2 | Stability | : | Unstable [] Stat | ole [X] | | | | |
| 10.3 | Stability | Note(s): | Stable if stored in acc | ordance with i | nformation listed of | on the product | insert. | |
| | Polymer | ization: | Will occur [] Wil | I not occur [X |] | | | |
| 10.4 | Conditio | ns To Avoid: | No data available. | | | | | |
| 10.5 | Incompa | tibility - Materials | strong acids | | | | | |
| | To Avoid | l: | strong bases | | | | | |
| | | | strong oxidizing agents | | | | | |
| 10.6 | Hazardo | us | carbon dioxide | | | | | |
| | Decomp | osition or | carbon monoxide | | | | | |
| | Byproducts: | | hydrogen bromide | | | | | |
| | | | hydrogen chloride | | | | | |
| | | | nitrogen oxides | | | | | |
| | | | sulfur oxides | | | | | |
| | | | Section 11. | Toxicolog | ical Informa | ation | | |
| 11.1 | Informat | ion on | The toxicological effect | | | | udied. | |
| | | gical Effects: | | | | i intere uginy ei | | |
| | | - | | | | | | |
| CAS | | Hazardous Com | ponents (Chemical Na | ame) | NTP | IARC | ACGIH | OSHA |
| 5190 | 55-62-0 | Tasisulam | | | n.a. | n.a. | n.a. | n.a. |
| | | | Section 12 | . Ecologio | cal Informat | ion | | |
| 12.1 | Toxicity: | | Avoid release into the environment. | | | | | |
| | | | Runoff from fire control or dilution water may cause pollution. | | | | | |
| 12.2 | Persiste | nce and | No data available. | | | | | |
| | Degrada | bility: | | | | | | |
| 12.3 | Bioaccu | - | No data available. | | | | | |
| | Potentia | | | | | | | |
| 12.4 | Mobility | | No data available. | | | | | |
| 12.5 | - | | No data available. | | | | | |
| 12.5 | assessm | | no uala avaliable. | | | | | |
| 12.6 | | | No data available | | | | | |
| 12.6 | Uther ad | verse effects: | No data available. | | | | | |
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| CHEMICAL | | Spotion 12 Diaros | | iono | | |
|-------------------------------|--|--|---|---------------------|--------------|--|
| 40.4 | | Section 13. Dispos | | | | |
| 13.1 Wastel | ste Disposal Method: Dispose in accordance with local, state, and federal regulations. | | | | | |
| | | Section 14. Trans | sport Informat | ion | | |
| 14.1 LAND TRANSPORT (US DOT): | | | | | | |
| | er Shipping Name | Not dangerous goods. | | | | |
| DOT Haza | | | | | | |
| UN/NA Nu | | | | | | |
| | TRANSPORT (Eur | | | | | |
| UN Numbe | Shipping Name: | Not dangerous goods. | | | | |
| Hazard Cla | | | | | | |
| | ANSPORT (ICAO) | (IATA): | | | | |
| | A Shipping Name: | | | | | |
| Additional Tra | | Transport in accordance with lo | cal, state, and federa | l regulations. | | |
| Information: | | | | | | |
| | | Section 15. Regul | atory Informa | tion | | |
| EPA SARA (S | uperfund Amendn | nents and Reauthorization Act of | <u> </u> | | | |
| CAS # | Hazardous Com | ponents (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) | |
| 519055-62-0 | Tasisulam | | No | No | No | |
| CAS # | Hazardous Com | ponents (Chemical Name) Other US EPA or State Lists | | | | |
| 519055-62-0 Tasisulam | | | CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No | | | |
| Regulatory Inf | ormation | This SDS was prepared in acco | rdance with 29 CFR | 1910.1200 and Regul | ation (EC) | |
| Statement: | | No.1272/2008. | | | | |
| | | Section 16. Oth | ner Information | า | | |
| Revision Date | : | 08/23/2017 | | | | |
| Additional Info | ormation About | No data available. | | | | |
| This Product: | | | | | | |
| Company Policy or Disclaimer: | | DISCLAIMER: This information | | - | | |
| | | currently available to us. However, we make no warranty of merchantability or any other warranty express or implied, with respect to such information, and we assume no liability resulting from its | | | | |
| | | use. Users should make their own investigations to determine the suitability of the information for | | | | |
| | | their particular purposes. | | | | |
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