

2-Amino-3-methylbutan-1-ol

Safety Data Sheet 4156188 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/06/2019 Version: 1.0

| 1.1. identification Substance Product form :: Substance Substance name :: 2.Amino 3-methylbutan 1-ol CAS No :: 10369-05-4 Product code :: 11561-188 Formula :: C5H13NO Synonyms :: D.V-Minol Dither means of identification :: MFCD000004730 1.2. Relevant identified uses of the substance or mixture and uses advised against Jas of the substance/mixture :: Libotationy chemicals Manufacture of substances SynOpers Labotatorise, Inc. :: MFCD000004730 1.3. Details of the supplier of the safety data sheet : MynOuest Labotatorise, Inc. YnOuest Labotatorise, Inc. :: (644) 523-4086 (3E Company - Account 10059) SECTION 22 Hazard(5) Identification :: (644) 523-4086 (3E Company - Account 10059) SECTION 22 Hazard(5) Identification :: (644) 523-4086 (3E Company - Account 10059) SECTION 22 Hazard(5) Identification :: (644) 523-4086 (3E Company - Account 10059) SECTION 22 Hazard(5) Identification :: (645) Signal word (GHS-US) :: (645) Signal word (GHS-US) :: Warning Hazard bittements (GHS-US) :: Warning Hazard bittements (GHS-US) :: Warning< | SECTION 1: Identification | |
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| Substance name: 2.4mino.3-methylbutan-1-olAS No: 16398-064AS No: 16398-064Forduct code: 4.4f6-1-38Formula: CSH13NOSynonyms: D.L-ValinolOther means of identification: MFCD0000473012.Reloxant identification13.Details of the substance or mixture and uses advised against14.Second Compositiones, Inc.15.Details of the subplier of the safety data sheet17.Second Second Compositiones, Inc.18.Details of the supplier of the safety data sheet19.Second Second Compositiones, Inc.19.Second Second Second Compositiones, Inc.19.Second Second | .1. Identification | |
| CAS No : 16389-06-4 Product code : 4156-188 Formula : CSH13NO Synonyms : DL-Valinol Dther means of identification : MFCD00004730 12.2 Relevant identified uses of the substance or mixture and uses advised against Jack Control (Control (Contro)))) It | Product form | : Substance |
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| ther means of identification : MFCD00004730 2. Relovant identified uses of the substance or mixture and uses advised against se of the substance/mixture : Laboratory chaminals Manufacture of substances Scientific research and development 3. Details of the supplier of the safety data sheet yrCurest Laboratories, Inc. 0. Box 309 lashus, F1, 32615 - United States of America (389) 462-0787 F (389) 462-7087 fold Strougestables.com 4. Energency telephone number mergency number : (844) 523-4086 (3E Company - Account 10069) EECTION 2: Hazerd(s) identification 4. Energency telephone number mergency number : (844) 523-4086 (3E Company - Account 10069) EECTION 2: Hazerd(s) identification 4. Energency telephone number mergency number : (844) 523-4086 (3E Company - Account 10069) EECTION 2: Hazerd(s) identification 4. Energency telephone number mergency number issuffication (0F8-US) kin inti, 2. H315 - Causes skin irritation TOT SE 3. H335 - May cause respiratory irritation TOT SE 3. H335 - May cause respiratory irritation UI text of H-phrases: see section 16 2. Label elements H54-US labeling azard pictograms (GHS-US) is H315 - Causes skin irritation H336 - May cause respiratory irritation H337 - May cause respiratory irritation H338 - May cause respiratory irritation H338 - Causes skin intribution H338 - Causes skin intribution | | |
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| se of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 3. Details of the supplier of the safety data sheet ynDuest Laboratories, Inc. 0. Box 309 ischus, FL 32615 - United States of America (389) 462-0788 - F (386) 462-7097 fo@synquestlabs.com - www.synquestlabs.com 4. Energency totephone number mergency number : (844) 523-4086 (3E Company - Account 10069) ECTION 2: Hazard(s) Identification 1. Classification of the substance or mixture lassification of the substance or mixture lassification (GHS-US) (Mint 2: H315 - Causes skin irritation w/ Imt 2: M315 - Causes serious eye irritation H319 - Causes respiratory irritation H319 - Causes respiratory irritation H320 - Wy Cause respiratory irritation H320 - Wy Cause respiratory irritation H321 - Specific traitment (exerce eye constraint ether P320 - Weap P310 - Keer Protective of protection for breathing P321 - Specific traitment (exerce eyerelaminites, Remove const H321 - Sp | | |
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| ynQuest Laboratories, Inc. O. Box 309 labchar, F. 22615 - United States of America (366) 462-7087 (366) 462-7087 F. (368) 462-7087 (367) 462-0788 - F. (368) 462-7087 (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) Identification A. Emergency telephone number mergency number (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) Identification (A. Classification of the substance or mixture Issasification (GHS-US) Kin Irritation Visit of the substance or mixture Issasification (GHS-US) Kin Irritation Visit of the substance or mixture Issasification (GHS-US) Kin Irritation Visit of the substance or mixture Issasification of the substance or mixture Issasification of H-substance or mixture Issasification of H-substance or mixture Issasification of GHS-US Issasification of GHS-US Issasification of GHS-US Ist | lse of the substance/mixture | Manufacture of substances |
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| on in | gredients | | |
|-----------|--|---|---|
| | | | |
| : Mono | -constituent | | |
| | Product identifier | % | Classification (GHS-US) |
| | (CAS No) 16369-05-4 | <= 100 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 |
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| | | | |
| | | | |
| | 3 | | , |
| | • • | ble for breathin | g. If not breathing, give artificial |
| : Wash | with plenty of soap and water. Get medi | cal advice/atten | tion. |
| | | | |
| | J J J | | unconscious person. Rinse |
| s, both a | acute and delayed | | |
| | | cts are describe | ed in the labelling (see section |
| attentio | n and special treatment needed | | |
| | | | |
| | | | |
| | | | |
| | | wder. Water sp | ray. Use extinguishing media |
| stance c | or mixture | | |
| | | des. Nitrogen o | xides. |
| | | | |
| : In cas | se of fire: Evacuate area. | | |
| | | n combination w | ith self contained breathing |
| | | | |
| ures | | | |
| | and emergency procedures | | |
| : Evacu | uate unnecessary personnel. Ensure ade | quate air ventila | ation. Do not breathe dust. Do not |
| | | | |
| : Only (| qualified personnel equipped with suitabl | e protective equ | ipment may intervene. |
| | | | |
| | | | |
| | t attempt to take action without suitable to section 8: "Exposure controls/personal | | ment. For further information |
| | In cas where Remo respir Wash Imme prese Do NG mouth S, both a The n 2.2) a attention at | (CAS No) 16369-05-4 In case of accident or if you feel unwell, seek r where possible). Move the affected personnel Remove person to fresh air and keep comforta respiration. Get medical advice/attention. Wash with plenty of soap and water. Get medi Immediately flush eyes thoroughly with water f present and easy to do. Continue rinsing. Get Do NOT induce vomiting. Never give anything mouth out with water. Get medical advice/attent s, both acute and delayed The most important known symptoms and effer 2.2) and/or in section 11. attention and special treatment needed Alcohol resistant foam. Carbon dioxide. Dry por appropriate for surrounding fire. stance or mixture Thermal decomposition generates: Carbon oxi In case of fire: Evacuate area. Wear gas tight chemically protective clothing in apparatus. For further information refer to sect Ures ipment and emergency procedures Evacuate unnecessary personnel. Ensure ade breathe gas, fumes, vapor or spray. | Product identifier % (CAS No) 16369-05-4 <= 100 |

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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| 6.3. Methods | and material for containme | ent and cleaning up |
|----------------------|----------------------------|--|
| For containment | | : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material. |
| Methods for cleanin | ng up | : Minimize generation of dust. Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area. |
| Other information | | : For disposal of solid materials or residues refer to section 13 : "Disposal considerations". |
| 6.4. Reference | e to other sections | |
| No additional inform | nation available | |
| SECTION 7: Ha | andling and storage | |
| 7.1. Precautio | ons for safe handling | |

| Precautions for safe handling | Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. |
|---|---|
| Hygiene measures | : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |
| 7.2. Conditions for safe storage, includi | ng any incompatibilities |
| Technical measures | : Comply with applicable regulations. |
| Storage conditions | : Keep container closed when not in use. |
| Incompatible materials | : Refer to Section 10 on Incompatible Materials. |
| Storage temperature | : 2 - 8 °C Use explosion proof refrigerator |
| Storage area | : Store in dry, well-ventilated area. Keep contents under inert gas. |
| | |

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

No additional information available

| 8.2. Exposure controls | |
|----------------------------------|---|
| Appropriate engineering controls | : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |
| Hand protection | : Protective gloves. 29 CFR 1910.138: Hand Protection. |
| Eye protection | : Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection. |
| Skin and body protection | : Wear suitable protective clothing. |
| Respiratory protection | : In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection. |
| Other information | : Safety shoes. 29 CFR 1910.136: Foot Protection. |

SECTION 9: Physical and chemical properties

| 9.1. Information on basic physical and | d chemical properties | |
|---|--------------------------|------|
| Physical state | : Solid | |
| Appearance | : Low melting solid. | |
| Color | : No data available | |
| Odor | : No data available | |
| Odor threshold | : No data available | |
| PH | : No data available | |
| Melting point | : 33 - 36 °C | |
| Freezing point | : No data available | |
| Boiling point | : 75 - 77 °C (@ 8 mm Hg) | |
| Flash point | : 91 °C | |
| Relative evaporation rate (butyl acetate=1) | : No data available | |
| Flammability (solid, gas) | : No data available | |
| Explosion limits | : No data available | |
| Explosive properties | : No data available | |
| Oxidizing properties | : No data available | |
| Vapor pressure | : No data available | |
| - / / / | | |

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| Relative density | : No data available |
|---------------------------------|---------------------|
| Relative vapor density at 20 °C | : No data available |
| Molecular mass | : 103.1628 g/mol |
| Solubility | : No data available |
| Log Pow | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| | |

9.2. **Other information**

No additional information available

| SECT | ION 10: Stability and reactivity |
|---------|---|
| 10.1. | Reactivity |
| No add | itional information available |
| 10.2. | Chemical stability |
| The pro | oduct is stable at normal handling and storage conditions. |
| 10.3. | Possibility of hazardous reactions |
| No add | itional information available |
| 10.4. | Conditions to avoid |
| Keep a | way from heat, sparks and flame. |
| 10.5. | Incompatible materials |
| Strong | acids. Strong oxidizing agents. |
| 10.6. | Hazardous decomposition products |
| | normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of e Section 5. |

| 1110, 000 | | | |
|-----------|---------------------------------------|--|--|
| SECT | ION 11: Toxicological information | | |
| 11.1. | Information on toxicological effects | | |
| | e e e e e e e e e e e e e e e e e e e | | |

| Acute toxicity | : Not classified |
|--|-------------------------------------|
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : May cause respiratory irritation. |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |

| SECT | ION 12: Ecological information |
|--------|--------------------------------|
| 12.1. | Toxicity |
| No add | litional information available |
| 12.2. | Persistence and degradability |
| No add | litional information available |
| 12.3. | Bioaccumulative potential |
| No add | litional information available |

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

| 13.1. Waste treatment methods | |
|--|---|
| Waste treatment methods | : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. |
| Waste disposal recommendations | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Additional information | : Recycle the material as far as possible. |
| SECTION 14: Transport informa | tion |
| Department of Transportation (DOT) | |
| In accordance with DOT | |
| Not regulated for transport | |
| TDG | |
| No additional information available | |
| Transport by sea | |
| No additional information available | |
| Air transport | |
| No additional information available | |
| SECTION 15: Regulatory inform | ation |
| 15.1. US Federal regulations | |
| All components of this product are listed, Substances Control Act (TSCA) inventor | or excluded from listing, on the United States Environmental Protection Agency Toxic |
| 2-Amino-3-methylbutan-1-ol | CAS No 16369-05-4 100% |

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

2-Amino-3-methylbutan-1-ol (16369-05-4) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

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| Full text of H-phrases: | |
|--------------------------|--|
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |
| NFPA health hazard | : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. |
| NFPA fire hazard | : 1 - Must be preheated before ignition can occur. |
| NFPA reactivity | : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. |
| HMIS III Rating | |
| Health | : 2 Moderate Hazard - Temporary or minor injury may occur |
| Flammability | 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB) |
| Physical | : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives. |
| SDS US (GHS HazCom 2012) | |

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.