

(1R,4R)-2-Methyl-2,5-diazabicyclo[2.2.1]heptane dihydrobromide Safety Data Sheet 3H329R1

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/01/2018 Version: 1.0

| Duk | | | |
|--|--|--|-------------------|
| SECTION 1: Identification | | | |
| 1.1. Identification | | | |
| Product form | : Substance | | |
| Substance name | : (1R,4R)-2-Methyl-2,5-diazabic | clo[2.2.1]heptane dihydrobromide | |
| CAS No | : 125224-64-8 | | |
| Product code | : 3H32-9-R1 | | |
| Formula | : C6H14Br2N2 | | |
| Synonyms | : (1R,4R)-5-Methyl-2,5-diazabic | clo[2.2.1]heptane dihydrobromide | |
| Other means of identification | : MFCD13195528 | | |
| .2. Relevant identified uses of the | substance or mixture and uses advis | ed against | |
| Use of the substance/mixture | : Laboratory chemicals | a againer | |
| | Manufacture of substances Scientific research and develo | ment | |
| I.3. Details of the supplier of the sat | etv data sheet | | |
| SynQuest Laboratories, Inc. | | | |
| P.O. Box 309 | | | |
| Alachua, FL 32615 - United States of Americ | ca | | |
| Г (386) 462-0788 - F (386) 462-7097 nfo@synguestlabs.com - www.synguestlabs | s com | | |
| I.4. Emergency telephone number | | | |
| mergency number | : (844) 523-4086 (3E Company | Account 10069) | |
| | | | |
| SECTION 2: Hazard(s) identificati | on | | |
| 2.1. Classification of the substance | or mixture | | |
| Classification (GHS-US) | | | |
| Acute Tox. 4 (Oral) H302 - Harmful if swa | allowed | | |
| Skin Irrit. 2 H315 - Causes skin i | | | |
| Eye Dam. 1 H318 - Causes serior | | | |
| STOT SE 3 H335 - May cause re | spiratory irritation | | |
| Full text of H-phrases: see section 16 | | | |
| 2.2. Label elements | | | |
| GHS-US labeling | | | |
| Hazard pictograms (GHS-US) | | | |
| | | | |
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| | | | |
| | | | |
| | GHS05 GHS07 | | |
| Signal word (GHS-US) | : Danger | | |
| Hazard statements (GHS-US) | : H302 - Harmful if swallowed H315 - Causes skin irritation | | |
| | H318 - Causes serious eye da | nage | |
| | H335 - May cause respiratory | | |
| Precautionary statements (GHS-US) | : P261 - Avoid breathing dust, m | | |
| | P264 - Wash skin thoroughly a | | |
| | P270 - Do not eat, drink or sm P271 - Use only outdoors or in | | |
| | | protective clothing/eye protection/face protec | tion |
| | P301+P312 - If swallowed: Ca | a POISON CENTER or doctor/ physician if y | |
| | P302+P352 - If on skin: Wash | | |
| | | e person to fresh air and keep comfortable for Rinse cautiously with water for several minute | |
| | lenses, if present and easy to | | SS. Remove condol |
| | P310 - Immediately call a POI | ON CENTER or doctor/ physician | |
| | P321 - Specific treatment (see | supplemental first aid instructions on this labe | el) |
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| 0/0 1/20 10 | EN (English US) | ו אפאנחני מו ניתנ | Page 1 |

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| locorality | to Federal Register / Vol. 77, No. 58 / Monday, P | viai 011 20, | | | |
|---|--|---|--|------------------|---|
| | | P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant | | | |
| 2.3. | Other hazards | | | | |
| | tional information available | | | | |
| 2.4. | Unknown acute toxicity (GHS US) | | | | |
| Not app | • • • • | | | | |
| | | | | | |
| SECT | ION 3: Composition/information | i on in | gredients | | |
| 3.1. | Substance | | | | |
| Substar | nce type | : Mono | -constituent | | |
| Name | | | Product identifier | % | Classification (GHS-US) |
| dihydro |)-2-Methyl-2,5-diazabicyclo[2.2.1]heptane bromide nstituent) | | (CAS No) 125224-64-8 | <= 100 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 |
| Full text | of H-phrases: see section 16 | | | | · |
| 3.2. | Mixture | | | | |
| Not app | licable | | | | |
| | ION 4: First aid measures | | | | |
| 4.1. | Description of first aid measures | | | | |
| | I measures general | | se of accident or if you feel unwell, seek i possible). Move the affected personnel | | |
| First-aic | irst-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention. | | | | |
| First-aid | I measures after skin contact | : Wash | with plenty of soap and water. Get imme | ediate medical a | dvice/attention. |
| First-aid | First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. | | | | |
| First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention. | | | | | |
| 4.2. | Most important symptoms and effect | s, both | acute and delayed | | |
| Sympto | Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11. | | | | |
| 4.3. | Indication of any immediate medical | attentio | n and special treatment needed | | |
| Treat sy | /mptomatically. | | | | |
| | ION 5: Firefighting measures | | | | |
| | | | | | |
| 5.1. Suitable | Extinguishing media | | ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire. | owder. Water sp | ray. Use extinguishing media |
| 5.2. | Special hazards arising from the sub | stance o | or mixture | | |
| Fire haz | | | nal decomposition generates: Carbon ox | ides. Hydrogen | fluoride. Nitrogen oxides. |
| 5.3. | Advice for firefighters | | | | - |
| | Advice for firefighters fighting instructions in case of fire: Evacuate area. | | | | |
| - | - | | | | |
| Protection during firefighting : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection". | | | | | |
| SECTION 6: Accidental release measures | | | | | |
| 6.1. Personal precautions, protective equipment and emergency procedures | | | | | |
| | General measures : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust. | | | | |
| 6.1.1. Emerge | 1.1. For non-emergency personnel mergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. | | | | |
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6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. **Environmental precautions**

| Avoid release to the environment. Notify authorities if product enters sewers or public waters. | | | | |
|---|--|--|--|--|
| 6.3. Methods and material for containme | 6.3. Methods and material for containment and cleaning up | | | |
| For containment | : Stop leak if safe to do so. | | | |
| Methods for cleaning up | : Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust. | | | |
| Other information | : For disposal of solid materials or residues refer to section 13 : "Disposal considerations". | | | |
| 6.4. Reference to other sections | | | | |
| No additional information available | | | | |
| SECTION 7: Handling and storage | | | | |
| 7.1. Precautions 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, mist, spray. 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, including any incompatibilities | | | | |
| Technical measures | : Comply with applicable regulations. | | | |
| Storage conditions | Keep container closed when not in use. Hygroscopic. Keep contents under inert gas. | | | |
| Incompatible materials | Refer to Section 10 on Incompatible Materials. | | | |
| Storage area | : Store in dry, cool, well-ventilated area. | | | |

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 an | d chemical properties |
|---|-----------------------|
| Physical state | : Solid |
| Color | : No data available |
| Odor | : No data available |
| Odor threshold | : No data available |
| рН | : No data available |
| Melting point | : 220 - 225 °C |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| 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 |
| | |

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| Oxidizing properties | : No data available |
|---------------------------------|---------------------|
| Vapor pressure | : No data available |
| Relative density | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Molecular mass | : 273.997 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

| SECTION 10: Stability and reactivity | | | | | |
|--|--|--|--|--|--|
| 10.1. | Reactivity | | | | |
| No addi | tional information available | | | | |
| 10.2. | Chemical stability | | | | |
| The pro | The product is stable at normal handling and storage conditions. | | | | |
| 10.3. | Possibility of hazardous reactions | | | | |
| No additional information available | | | | | |
| 10.4. | Conditions to avoid | | | | |
| Keep away from heat, sparks and flame. | | | | | |
| 10.5. | Incompatible materials | | | | |
| Strong acids. Strong bases. Strong oxidizing agents. | | | | | |
| 10.6. | Hazardous decomposition products | | | | |

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

| SECTION 11: Toxicological information | | | | |
|--|-------------------------------------|--|--|--|
| 11.1. Information on toxicological effects | | | | |
| Acute toxicity | : Oral: Harmful if swallowed. | | | |
| Skin corrosion/irritation | : Causes skin irritation. | | | |
| Serious eye damage/irritation | : Causes serious eye damage. | | | |
| 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 | | | |
| SECTION 12: Ecological information | | | | |

| SECI | ION 12: Ecological informatio | n | | |
|-------------------------------------|-------------------------------|-----------------|-----------------|-----|
| 12.1. | Toxicity | | | |
| No add | itional information available | | | |
| 12.2. | Persistence and degradability | | | |
| No add | itional information available | | | |
| 12.3. | Bioaccumulative potential | | | |
| No additional 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 Waste disposal recommendations Additional information | Remove to an authorized incinerator equipped witDispose of contents/container in accordance withRecycle the material as far as possible. | |
| SECTION 14: Transport informat | on | |
| 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 informa | tion | |
| 15.1. US Federal regulations | | |
| All components of this product are listed, of Substances Control Act (TSCA) inventory (1R,4R)-2-Methyl-2,5-diazabicyclo[2.2.1]h | | Il Protection Agency Toxic |
| This product or mixture does not contain a | toxic chemical or chemicals in excess of the applicable de quirements of section 313 of Title III of the Superfund Ame | minimis concentration as specified in 40 |
| 15.2. International regulations | | |
| CANADA No additional information available | | |
| EU-Regulations No additional information available | | |
| National regulations No additional information available | | |
| 15.3. US State regulations | | |
| California Proposition 65 - This product of and/or reproductive harm | loes not contain any substances known to the state of Cali | fornia to cause cancer |
| | | |
| SECTION 16: Other information | | |

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| Full tex | t of H-phrases: | | |
|----------|---|---|---|
| | Acute Tox. 4 (Oral) | | Acute toxicity (oral) Category 4 |
| | Eye Dam. 1 | | Serious eye damage/eye irritation Category 1 |
| | Skin Irrit. 2 | | Skin corrosion/irritation Category 2 |
| | STOT SE 3 | | Specific target organ toxicity (single exposure) Category 3 |
| | H302 | | Harmful if swallowed |
| | H315 | | Causes skin irritation |
| | H318 | | Causes serious eye damage |
| | H335 | | May cause respiratory irritation |
| NFPA f | nealth hazard ïre hazard reactivity | given. : 0 - Materials that will not b | h prompt medical attention was burn. under fire exposure conditions, |
| HMIS I | II Rating | | |
| Health | | : 3 Serious Hazard - Majo given | or injury likely unless prompt action is taken and medical treatment is |
| Flamm | ability | : 0 Minimal Hazard - Mate | rials that will not burn |
| Physica | al | | erials that are normally stable, even under fire conditions, and will NOT rize, decompose, condense, or self-react. Non-Explosives. |

SDS US (GHS HazCom 2012)

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