

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 1300K00 Issue date: 4/17/2023 Version: 1.0

| SECTION 1: Identification | | | |
|--|---|----------------------|---|
| 1.1. Identification | | | |
| Product form Substance name CAS-No. Product code Formula Synonyms Other means of identification | : Substance : 1,1-Difluoro-2 : 2925-16-8 : 1300-K-00 : C2HF2I : 1,1-Difluoro-2 : MFCD206217 | -iodoethene | |
| 1.2. Recommended use and restrictions on | use | | |
| Use of the substance/mixture | : Laboratory ch Manufacture c Scientific rese | | opment |
| 1.3. Supplier | | | |
| SynQuest Laboratories, Inc. Inc. P.O. Box 309 Alachua, FL, Alachua, 32615 United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com | | | |
| 1.4. Emergency telephone number | | | |
| Emergency number | : (844) 523-408 | 6 (3E Company | y - Account 10069) |
| SECTION 2: Hazard(s) identification | | | |
| 2.1. Classification of the substance or mixt | ure | | |
| GHS US classification | | | |
| Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Specific target organ toxicity – Single exposure, Cat Respiratory tract irritation Full text of H statements : see section 16 | egory 3, | H315 H319 H335 | Causes skin irritation Causes serious eye irritation May cause respiratory irritation |

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Signal word (GHS US) Hazard statements (GHS US)

Hazard pictograms (GHS US)

Precautionary statements (GHS US)

| : | |
|---|--|
| : | Warning |
| : | H315 - Causes skin irritation |
| | H319 - Causes serious eye irritation |
| | H335 - May cause respiratory irritation |
| : | P261 - Avoid breathing fumes, mist, spray, vapors. P264 - Wash skin thoroughly after handling |

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P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - If on skin: Wash with plenty of soap and water
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell
P321 - Specific treatment (see supplemental first aid instructions on this label)
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 which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Substance type

: Mono-constituent

| Name | Product identifier | % | GHS US classification |
|---|--------------------|---|---|
| 1,1-Difluoro-2-iodoethylene (Main constituent) | CAS-No.: 2925-16-8 | | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 |

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

| SECTION 4: First-aid measures | |
|--|--|
| 4.1. Description of first aid measures | |
| First-aid measures general | : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention. |
| First-aid measures after skin contact | : Wash with plenty of soap and water. Get medical advice/attention. |
| 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 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 medical advice/attention. |
| 4.2. Most important symptoms and effective states and effective symptoms and effective symp | ffects (acute and delayed) |
| Symptoms/effects | : The most important known symptoms and effects are described in the labelling (see section 2.2) |

and/or in section 11.

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4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

| SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing media | | | |
|---|---|--|--|
| | | | |
| 5.2. Specific hazards arising from the chem | nical | | |
| Fire hazard Explosion hazard | Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Hydrogen iodide. Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers. | | |
| 5.3. Special protective equipment and prec | autions for fire-fighters | | |
| Firefighting instructions Protection during firefighting | In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. 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, protectiv | e equipment and emergency procedures | | |
| General measures | : Evacuate unnecessary personnel. Ensure adequate air ventilation. May cause suffocation by reducing oxygen available for breathing. Do not breathe gas, fumes, vapor or spray. | | |
| 6.1.1. For non-emergency personnel | | | |
| Emergency procedures | : Only qualified personnel equipped with suitable protective equipment may intervene. | | |
| 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". | | |
| Emergency procedures | : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. | | |

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

| 6.3. Methods and material for containment and cleaning up | | |
|---|--|--|
| For containment | : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material. | |
| Methods for cleaning up | : 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 to other sections | | |

No additional information available

6.2. Environmental precautions

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| SECTION 7: Handling and storage | 9 | |
|---|---|--|
| 7.1. Precautions for safe handling | | |
| Precautions for safe handling Hygiene measures | Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. 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 Storage conditions Incompatible materials Storage temperature Storage area | Comply with applicable regulations. Keep container closed when not in use. Refer to Section 10 on Incompatible Materials. 2 - 8 °C Store in dry, well-ventilated area. Light sensitive. | |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| 1,1-Difluoro-2-iodoethylene (2925-16-8) | |
|---|--|
| No additional information available | |
| 8.2. Appropriate engineering 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. Systems under pressure should be regularily checked for leakage. Oxygen detectors should be used when asphyxiating gases may be released. Gas detectors should be used when toxic gases may be released. |

8.3. Individual protection measures/Personal protective equipment

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

Personal protective equipment symbol(s):



Other information:

Safety shoes. 29 CFR 1910.136: Foot Protection.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state | : Liguid |
|---|------------------------|
| Color | : No data available |
| Odor | : No data available |
| Odor threshold | : No data available |
| рН | : No data available |
| Melting point | : No data available |
| 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 |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 2.171 g/ml (@ 20 °C) |
| Molecular mass | : 189.9306 g/mol |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| | |

9.2. Other information

Refractive index

: 1.4376 (@ 20 °C)

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

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

Alkali metals. Finely divided metals (Al, Mg, Zn). 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.

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SECTION 11: Toxicological information

| 11.1. Information on toxicological ef | ifects |
|---------------------------------------|--|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : 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 |
| STOT-single exposure | : May cause respiratory irritation. |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |
| Symptoms/effects | : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11. |

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods

Product/Packaging disposal recommendations Additional information

- Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
 Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Recycle the material as far as possible.

SECTION 14: Transport information

14.1. UN number

Not regulated for transport

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| 14.2. UN proper shipping name | | |
|---|--|--|
| Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) | Not applicable Not applicable Not applicable Not applicable | |
| 14.3. Transport hazard class(es) | | |
| DOT Transport hazard class(es) (DOT) | : Not applicable | |
| TDG Transport hazard class(es) (TDG) | : Not applicable | |
| IMDG Transport hazard class(es) (IMDG) | : Not applicable | |
| IATA Transport hazard class(es) (IATA) | : Not applicable | |
| 14.4. Packing group | | |
| Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA) | Not applicable Not applicable Not applicable Not applicable Not applicable | |
| 14.5. Environmental hazards | | |
| Other information | : No supplementary information available. | |
| 14.6. Special precautions for user | | |
| DOT No data available | | |
| TDG No data available | | |
| IMDG No data available | | |
| IATA No data available | | |
| 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | | |
| Not applicable | | |
| SECTION 15: Regulatory information | | |
| 15.1. US Federal regulations | | |
| All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for: | | |

| 1,1-Difluoro-2-iodoethylene | CAS-No. 2925-16-8 | 100% |
|-----------------------------|-------------------|------|

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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 does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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| Full text of H-phrases | | | |
|---|----------------------------------|---|--|
| H315 | Causes skin irritation | | |
| H319 | Causes serious eye irritation | | |
| H335 | May cause respiratory irritation | | |
| NFPA health hazard NFPA fire hazard NFPA reactivity | d | 3 - Materials that, under emergency conditions, can cause serious or permanent injury. 1 - Materials that must be preheated before ignition can occur. 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures. | |
| Hazard Rating | | | |
| Health | | : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given | |
| 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 | | : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors. | |

Safety Data Sheet (SDS), USA

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.