

3,3,3-(Trifluoropropyl)triphosphonium iodide Safety Data Sheet 5676K33 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Version: 1.0 Date of issue: 01/09/2019

| SECTION 1: Identification | |
|--|---|
| 1.1. Identification | |
| Product form | : Substance |
| Substance name | : 3,3,3-(Trifluoropropyl)triphosphonium iodide |
| CAS No | : 128622-15-1 |
| Product code | : 5676-K-33 |
| Formula | : C21H19F3IP |
| Other means of identification | : MFCD13563128 |
| 1.2. Relevant identified uses of the substa | ince or mixture and uses advised against |
| Use of the substance/mixture | : Laboratory chemicals Manufacture of substances Scientific research and development |
| 1.3. Details of the supplier of the safety da | ata sheet |
| SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 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) 523-4086 (3E Company - Account 10069) |
| SECTION 2: Hazard(s) identification | |
| 2.1. Classification of the substance or mix | cture |
| Classification (GHS-US) | |
| Skin Irrit. 2 H315 - Causes skin irritation | |
| Eye Irrit. 2A H319 - Causes serious eye irritation | n |
| STOT SE 3 H335 - May cause respiratory irrita | tion |
| Full text of H-phrases: see section 16 | |
| 2.2. Label elements | |
| GHS-US labeling | |
| Hazard pictograms (GHS-US) | |
| · · · · · · · · · · · · · · · · · · · | GHS07 |
| Signal word (GHS-US) | : Warning |
| Hazard statements (GHS-US) | : H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation |
| Precautionary statements (GHS-US) | P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling 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 |

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|--|--|----------------------|---|
| 2.3. Other hazards | | | |
| No additional information available | | | |
| 2.4. Unknown acute toxicity (GHS US) | | | |
| Not applicable | | | |
| SECTION 3: Composition/information | on on ingredients | | |
| 3.1. Substance | | | |
| Substance type | : Mono-constituent | | |
| Name | Product identifier | % | Classification (GHS-US) |
| 3,3,3-(Trifluoropropyl)triphosphonium iodide (Main constituent) | (CAS No) 128622-15-1 | <= 100 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 |
| Full text of H-phrases: see section 16 | | | |
| 3.2. Mixture | | | |
| 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, s where possible). Move the affected personal sector of the sector of | | |
| First-aid measures after inhalation | : Remove person to fresh air and keep con respiration. Get medical advice/attention | | ning. If not breathing, give artificial |
| First-aid measures after skin contact | : Wash with plenty of soap and water. Get | | |
| First-aid measures after eye contact | : Immediately flush eyes thoroughly with w present and easy to do. Continue rinsing | . Get medical advid | ce/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 effe | cts, both acute and delayed | | |
| 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 medica | al attention and special treatment needed | | |
| Treat symptomatically. | | | |
| SECTION 5: Firefighting measures | | | |
| 5.1. Extinguishing media | | | |
| Suitable extinguishing media | : Alcohol resistant foam. Carbon dioxide. I appropriate for surrounding fire. | Dry powder. Water | spray. Use extinguishing media |
| 5.2. Special hazards arising from the su | ubstance or mixture | | |
| Fire hazard | : Thermal decomposition generates: Carb Phosphorus oxides. | on oxides. Hydroge | en fluoride. Hydrogen iodide. |
| 5.3. Advice for firefighters | | | |
| Firefighting instructions | : In case of fire: Evacuate area. | | |
| Protection during firefighting | : Wear gas tight chemically protective clot apparatus. For further information refer to | | |
| SECTION 6: Accidental release mea | | | |
| | quipment and emergency procedures | | |
| General measures | : Evacuate unnecessary personnel. Ensur | e adequate air ven | tilation. Do not breathe dust. |
| | | | |
| 6.1.1. For non-emergency personnel | | | |
| 6.1.1. For non-emergency personnel Emergency procedures | : Only qualified personnel equipped with s | uitable protective e | equipment may intervene. |

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

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| 6.3. Methods and mater | ial 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 | e 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, includi | Conditions for safe storage, including 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 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 physic | al and chemical properties |
|---|----------------------------|
| Physical state | : Solid |
| Color | : No data available |
| Odor | : No data available |
| Odor threshold | : No data available |
| рН | : No data available |
| Melting point | : 194 - 197 °C |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : > 110 °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 |
| Relative density | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Molecular mass | : 486.249 g/mol |

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| o data available |
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| o data available |
| |

Other information 9.2.

No additional information available

| SECTION 10: Stability and reactive | vitv | | |
|---|----------------------------------|--|--|
| 10.1. Reactivity | | | |
| No additional information available | | | |
| 10.2. Chemical stability | | | |
| The product is stable at normal handling and | I storage conditions. | | |
| 10.3. Possibility of hazardous reactio | ns | | |
| No additional information available | | | |
| 10.4. Conditions to avoid | . Conditions to avoid | | |
| Keep away from heat, sparks and flame. | | | |
| 10.5. Incompatible materials | | | |
| Strong oxidizing agents. | | | |
| 10.6. Hazardous decomposition prod | ucts | | |
| 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 inform | nation | | |
| 11.1. Information on toxicological effe | ects | | |
| | | | |
| 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 |

| reproductive toxicity | |
|--|-------------------------------------|
| Specific target organ toxicity (single exposure) | : May cause respiratory irritation. |

Specific target organ toxicity (repeated : Not classified exposure)

Aspiration hazard

: Not classified

| SECTI | SECTION 12: Ecological information | | | | |
|-----------|-------------------------------------|-----------------|-----------------|-----|--|
| 12.1. | Toxicity | | | | |
| No addit | ional information available | | | | |
| 12.2. | Persistence and degradability | | | | |
| No addit | No additional information available | | | | |
| 12.3. | Bioaccumulative potential | | | | |
| No addit | No additional information available | | | | |
| 12.4. | Mobility in soil | | | | |
| No addit | No additional information available | | | | |
| 12.5. | Other adverse effects | | | | |
| No addit | No additional information available | | | | |
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| SECTION 42: Dispacel serveideret | | | | |
|---|---|--|--|--|
| SECTION 13: Disposal considerati | ions | | | |
| 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 information | | | | |
| 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 information | | | | |
| 15.1. US Federal regulations | | | | |
| All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for: | | | | |

| stances control Act (100A) inventory exception. | | | |
|---|--------------------|------|--|
| 3,3,3-(Trifluoropropyl)triphosphonium iodide | CAS No 128622-15-1 | 100% | |

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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 and/or reproductive harm

SECTION 16: Other information

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 | |

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| NFPA health hazard | : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. | |
|--------------------|---|--|
| NFPA fire hazard | : 0 - Materials that will not burn. | |
| 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 | : 0 Minimal Hazard - Materials that will not burn | |
| 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.