

Safety Data Sheet 2624304 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/19/2017 Version: 1.0

| SECTION 1: Identification | |
|---|--|
| .1. Identification | |
| Product form | : Substance |
| Substance name | : 2,3,4,5,6-Pentafluorobenzyl acrylate |
| CAS No | : 153614-61-0 |
| Product code | : 2624-3-04 |
| Formula | : C10H5F5O2 |
| Synonyms | : (2,3,4,5,6-Pentafluorophenyl)methyl prop-2-enoate |
| Other means of identification | : MFCD00042328 |
| I.2. Relevant identified uses of the | substance or mixture and uses advised against |
| Jse of the substance/mixture | : Laboratory chemicals Manufacture of substances Scientific research and development |
| I.3. Details of the supplier of the sa | afety data sheet |
| SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab | |
| 1.4. Emergency telephone number | |
| Emergency number | : (844) 523-4086 (3E Company - Account 10069) |
| Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eyeSTOT SE 3H335 - May cause respirato | irritation |
| Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 | n irritation |
| Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling | n irritation |
| Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling | n irritation |
| Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) | n irritation ory irritation |
| Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 | n irritation bry irritation : CHS07 |
| Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) | n irritation bry irritation : : : : : : : : : : : : : : : : : : : |

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| 2.2 Other hererde | | | | | |
|--|--|---|--|---|----|
| 2.3. Other hazards No additional information available | | | | | |
| 2.4. Unknown acute toxicity (GHS US) | | | | | |
| Not applicable | | | | | |
| | | | | | |
| SECTION 3: Composition/information | on on in | gredients | | | |
| 3.1. Substance | | | | | |
| Substance type | : Mono | o-constituent | | | |
| Name | | Product identifier | % | Classification (GHS-US) | |
| 2,3,4,5,6-Pentafluorobenzyl acrylate (Main constituent) | | (CAS No) 153614-61-0 | <= 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 | | se of accident or if you feel unwell, seek e possible). Move the affected personne | | | |
| First-aid measures after inhalation | | ove person to fresh air and keep comfort ration. Get medical advice/attention. | able for breathin | g. If not breathing, give artificial | |
| First-aid measures after skin contact | : Wash | with plenty of soap and water. Get mee | ical advice/atten | tion. | |
| First-aid measures after eye contact | | ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get | | | if |
| First-aid measures after ingestion | | OT induce vomiting. Never give anything h out with water. Get medical advice/atte | | unconscious person. Rinse | |
| 4.2. Most important symptoms and effe | ects, both | acute and delayed | | | |
| Symptoms/injuries | | nost important known symptoms and eff and/or in section 11. | ects are describe | ed in the labelling (see section | |
| | | | | | |
| 4.3. Indication of any immediate medic | al attentio | | | | |
| 4.3. Indication of any immediate medic Treat symptomatically. | al attentio | | | | |
| Treat symptomatically. | al attentio | | | | |
| Treat symptomatically. SECTION 5: Firefighting measures | al attentio | | _ | | |
| Treat symptomatically. | : Alcoh | | owder. Water sp | ray. Use extinguishing media | |
| Treat symptomatically.SECTION 5: Firefighting measures5.1.Extinguishing mediaSuitable extinguishing media | : Alcoh appro | n and special treatment needed nol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire. | owder. Water sp | ray. Use extinguishing media | |
| SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media | : Alcoh appro | n and special treatment needed nol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire. | | | |
| Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the suitable extinguishing media | : Alcoh appro ubstance (: Therr : Risk (| n and special treatment needed ool resistant foam. Carbon dioxide. Dry p opriate for surrounding fire. | ides. Hydrogen | fluoride. | |
| Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard | : Alcoh appro ubstance (: Therr : Risk (| n and special treatment needed ool resistant foam. Carbon dioxide. Dry p opriate for surrounding fire. or mixture nal decomposition generates: Carbon oo of explosion if heated under confinemen | ides. Hydrogen | fluoride. | |
| Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard | : Alcoh appro ubstance o : Therr : Risk o conta | n and special treatment needed ool resistant foam. Carbon dioxide. Dry p opriate for surrounding fire. or mixture nal decomposition generates: Carbon oo of explosion if heated under confinemen | ides. Hydrogen . Use water spra | fluoride. ay or fog for cooling exposed | |
| Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters | : Alcoh appro ubstance (: Therr : Risk (conta : In cas : Wear | n and special treatment needed ool resistant foam. Carbon dioxide. Dry p opriate for surrounding fire. or mixture nal decomposition generates: Carbon oo of explosion if heated under confinemen iners. | ides. Hydrogen . Use water spra tely due to the ris | fluoride. ay or fog for cooling exposed sk of explosion. <i>v</i> ith self contained breathing | |
| Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters Firefighting instructions | : Alcoh appro ubstance (: Therr : Risk (conta : In cas : Wear appar | n and special treatment needed ool resistant foam. Carbon dioxide. Dry p opriate for surrounding fire. or mixture nal decomposition generates: Carbon or of explosion if heated under confinemen iners. se of fire: Evacuate area. Fight fire remo | ides. Hydrogen . Use water spra tely due to the ris | fluoride. ay or fog for cooling exposed sk of explosion. <i>v</i> ith self contained breathing | |
| Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting | : Alcoh appro ubstance (: Therr : Risk (conta : Near appar asures | n and special treatment needed ool resistant foam. Carbon dioxide. Dry p opriate for surrounding fire. or mixture nal decomposition generates: Carbon or of explosion if heated under confinemen iners. Se of fire: Evacuate area. Fight fire remo gas tight chemically protective clothing ratus. For further information refer to sec | ides. Hydrogen . Use water spra tely due to the ris | fluoride. ay or fog for cooling exposed sk of explosion. <i>v</i> ith self contained breathing | |
| Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release measures | : Alcoh appro ubstance (: Therr : Risk (conta : In cas : Wear appar asures quipment : Evac | n and special treatment needed ool resistant foam. Carbon dioxide. Dry p opriate for surrounding fire. or mixture nal decomposition generates: Carbon or of explosion if heated under confinemen iners. Se of fire: Evacuate area. Fight fire remo gas tight chemically protective clothing ratus. For further information refer to sec | tides. Hydrogen . Use water spra tely due to the ris in combination w tion 8: "Exposur | fluoride. ay or fog for cooling exposed sk of explosion. <i>v</i> ith self contained breathing e controls/personal protection". | , |
| Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the suffice hazard Fire hazard Explosion hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release measures 6.1. | : Alcoh appro ubstance (: Therr : Risk (conta : In cas : Wear appar asures quipment : Evac | n and special treatment needed nol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire. or mixture nal decomposition generates: Carbon or of explosion if heated under confinemen iners. se of fire: Evacuate area. Fight fire remo gas tight chemically protective clothing ratus. For further information refer to sec and emergency procedures uate unnecessary personnel. Ensure ad | tides. Hydrogen . Use water spra tely due to the ris in combination w tion 8: "Exposur | fluoride. ay or fog for cooling exposed sk of explosion. <i>v</i> ith self contained breathing e controls/personal protection". | 2 |
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| Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective e General measures 6.1.1. For non-emergency personnel Emergency procedures | : Alcoh appro ubstance o : Therr : Risk o conta : Near appar SUICES quipment : Evacu vapor : Only : Do no | n and special treatment needed tol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire. or mixture nal decomposition generates: Carbon or of explosion if heated under confinemen iners. se of fire: Evacuate area. Fight fire remo gas tight chemically protective clothing ratus. For further information refer to sec and emergency procedures uate unnecessary personnel. Ensure ad or spray. | tides. Hydrogen to Use water spra tely due to the ris in combination w tion 8: "Exposur equate air ventila le protective equip | fluoride. ay or fog for cooling exposed sk of explosion. //ith self contained breathing e controls/personal protection". ation. Do not breathe gas, fumes, | , |
| Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective e General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders | : Alcoh appro ubstance (: Therr : Risk (conta : In cas : Wear appar SUIPS quipment : Evact vapor : Only : Do no refer | n and special treatment needed tol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire. or mixture nal decomposition generates: Carbon or of explosion if heated under confinemen iners. Se of fire: Evacuate area. Fight fire remo gas tight chemically protective clothing ratus. For further information refer to sec and emergency procedures uate unnecessary personnel. Ensure ad or spray. qualified personnel equipped with suitable to section 8: "Exposure controls/personal vapor heavier than air. May accumulate i | tides. Hydrogen to Use water spra tely due to the ris in combination w tion 8: "Exposur equate air ventila le protective equip protective equip l protection". | fluoride. ay or fog for cooling exposed sk of explosion. <i>r</i> ith self contained breathing e controls/personal protection". ation. Do not breathe gas, fumes, upment may intervene. | |

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| 6.2. Environmental precautions | | | |
|---|---|--|--|
| Avoid release to the environment. Notify authorities if product enters sewers or public waters. | | | |
| 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 | | | |
| SECTION 7: Handling and storage | 9 | | |
| 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 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, incl | uding 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 physical and chemical properties Physical state : Liquid Color : No data available : No data available Odor Odor threshold : No data available : No data available pН : No data available Melting point Freezing point : No data available Boiling point : No data available Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available : No data available Flammability (solid, gas) Explosion limits : No data available Explosive properties : No data available

Oxidizing properties

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 | : 252.14 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 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 |
| 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. |

| 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 | 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

| I3.1. Waste treatment methods | | |
|--|---|---|
| Naste treatment methods | | pped with an afterburner and a flue gas scrubber. |
| Naste disposal recommendations | | nce with licensed collector's sorting instructions. |
| Additional information | : Recycle the material as far as possible. | |
| SECTION 14: Transport informa | tion | |
| Department of Transportation (DOT) | | |
| n accordance with DOT | | |
| Not regulated for transport | | |
| rdg | | |
| No additional information available | | |
| Fransport 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 Enviro | onmental Protection Agency Toxic |
| 2,3,4,5,6-Pentafluorobenzyl acrylate | CAS No 153614-61-0 | 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 | : 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.