

p-AZIDOMETHYLPHENYLTRIMETHOXYSILANE, 90%

Safety Data Sheet SIA0774.0 Date of issue: 07/21/2015 Version: 1.0

| SECTION 1: Identification of the su | bstance/mixture and of the company/undertaking | | |
|--|---|--|--|
| 1.1. Product identifier | | | |
| Product form | : Substance | | |
| Physical state | : Liquid | | |
| Substance name | : p-AZIDOMETHYLPHENYLTRIMETHOXYSILANE, 90% | | |
| Product code | : SIA0774.0 | | |
| Formula | : C10H15N3O3Si | | |
| Synonyms | : 1-(AZIDOMETHYL)-4-(TRIMETHOXYSILYL)BENZENE | | |
| Chemical family | : ORGANOMETHOXYSILANE | | |
| 1.2. Relevant identified uses of the sub | ostance or mixture and uses advised against | | |
| Use of the substance/mixture | : Chemical intermediate For research use only | | |
| 1.3. Details of the supplier of the safety | y data sheet | | |
| GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 info@gelest.com | D AM - 5:30 PM EST | | |
| 1.4. Emergency telephone number | | | |
| Emergency number | : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International) | | |
| SECTION 2: Hazards identification | | | |
| 2.1. Classification of the substance or | mixture | | |
| | | | |
| Classification (GHS-US) Skin Irrit. 2 H315 | | | |
| Eye Dam. 1 H318 | | | |
| Full text of H-phrases: see section 16 | | | |
| 2.2. Label elements | | | |
| GHS-US labeling | | | |
| Hazard pictograms (GHS-US) | : GHS05 | | |
| Signal word (GHS-US) | : Danger | | |
| Hazard statements (GHS-US) | : H315 - Causes skin irritation | | |
| Precautionary statements (GHS-US) | H318 - Causes serious eye damage P280 - Wear protective gloves/protective clothing/eye protection/face protection P264 - Wash hands thoroughly after handling P302+P352 - If on skin: Wash with plenty of soap and water P332+P313 - If skin irritation occurs: Get medical advice/attention P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P362 - Take off contaminated clothing and wash before reuse P310 - Immediately call a doctor | | |
| 2.3. Other hazards | | | |
| No additional information available | | | |
| 2.4. Unknown acute toxicity (GHS US) | | | |
| No data available | | | |
| SECTION 3: Composition/informati | on on ingredients | | |
| 3.1. Substance | | | |
| Substance type | : Mono-constituent | | |
| Name | : p-AZIDOMETHYLPHENYLTRIMETHOXYSILANE, 90% | | |
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| Name | | 74-6! | | |
|---|--|--|--|--|
| Humb | | Product identifier | % | Classification (GHS-US) |
| p-Azidomethylphenyltrimethoxysilane | | (CAS No) 83315-74-6 | > 85 | Skin Irrit. 2, H315 Eye Dam. 1, H318 |
| 3.2. Mixture | | | | |
| Not applicable | | | | |
| SECTION 4: First aid measures | | | | |
| 4.1. Description of first aid measures | \$ | | | |
| First-aid measures general | medica | e contaminated clothing and shoe I advice immediately (show the la le show packaging or label. | | |
| First-aid measures after inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention. Get medical advice/attention if you feel unwell. | | | |
| First-aid measures after skin contact | : Wash | vith plenty of soap and water. Get | t medical advice/atte | ention. |
| First-aid measures after eye contact | presen | iately flush eyes thoroughly with v t and easy to do. Continue rinsing | g. Get immediate me | dical advice/attention. |
| First-aid measures after ingestion | : Never | give anything by mouth to an unco | onscious person. Ge | et medical advice/attention. |
| 4.2. Most important symptoms and e | | | | |
| Symptoms/injuries after inhalation | Nause | | act. Overexposure m | ay cause: Coughing. Headache |
| Symptoms/injuries after skin contact | , | use skin irritation. | | |
| Symptoms/injuries after eye contact | | s serious eye damage. | | |
| Symptoms/injuries after ingestion | | harmful if swallowed. | | |
| 4.3. Indication of any immediate med No additional information available | lical attention | and special treatment needed | | |
| SECTION 5: Firefighting measures | S | | | |
| 5.1. Extinguishing media | | | | |
| Suitable extinguishing media | : Water | spray. Foam. Carbon dioxide. Dry | / chemical. | |
| 5.2. Special hazards arising from the | | | | |
| Fire hazard | : Irritatin | g fumes and organic acid vapors atures or open flame. | may develop when | material is exposed to elevated |
| 5.3. Advice for firefighters | | | | |
| Firefighting instructions | · Use wa | ter spray to cool exposed surface | | |
| | . 000 m | and opial to over experied canade | es. Exercise caution | when fighting any chemical fire |
| Protection during firefighting | : Do not | enter fire area without proper pro all eye and skin contact and do no | tective equipment, in | ncluding respiratory protection. |
| | : Do not Avoid a | enter fire area without proper pro | tective equipment, in | ncluding respiratory protection. |
| SECTION 6: Accidental release m | : Do not Avoid a easures | enter fire area without proper pro Ill eye and skin contact and do no | tective equipment, in | ncluding respiratory protection. |
| SECTION 6: Accidental release models of the second | : Do not Avoid a easures | enter fire area without proper pro Ill eye and skin contact and do no | tective equipment, in | ncluding respiratory protection. |
| SECTION 6: Accidental release m | : Do not Avoid a easures equipment a | enter fire area without proper pro Ill eye and skin contact and do no | tective equipment, in the tective equipment, in the tective equipment, in the tection of | ncluding respiratory protection. |
| SECTION 6: Accidental release m 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Protective equipment | : Do not Avoid a easures e equipment a : Wear p | enter fire area without proper pro ill eye and skin contact and do no nd emergency procedures | tective equipment, in the tective equipment, in the tective equipment, in the tection of | ncluding respiratory protection. |
| SECTION 6: Accidental release m 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Protective equipment Emergency procedures | : Do not Avoid a easures e equipment a : Wear p | enter fire area without proper pro and skin contact and do no nd emergency procedures | tective equipment, in the tective equipment, in the tective equipment, in the tection of | ncluding respiratory protection. |
| SECTION 6: Accidental release m 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Protective equipment Emergency procedures 6.1.2. For emergency responders | : Do not Avoid a easures e equipment a : Wear p : Evacua : Do not | enter fire area without proper pro all eye and skin contact and do no and emergency procedures rotective equipment as described ate unnecessary personnel. attempt to take action without sui protection. For further information | tective equipment, in to breathe vapor and d in Section 8. | ncluding respiratory protection. mist. |
| SECTION 6: Accidental release m 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Protective equipment Emergency procedures 6.1.2. For emergency responders Protective equipment | : Do not Avoid a easures e equipment a : Wear p : Evacua : Do not proper | enter fire area without proper pro all eye and skin contact and do no and emergency procedures rotective equipment as described ate unnecessary personnel. attempt to take action without sui protection. For further information | tective equipment, in to breathe vapor and d in Section 8. | ncluding respiratory protection. mist. |
| SECTION 6: Accidental release m 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Protective equipment Emergency procedures 6.1.2. For emergency responders Protective equipment Environmental precautions | : Do not Avoid a easures e equipment a : Wear p : Evacua : Do not proper protect | enter fire area without proper pro all eye and skin contact and do no and emergency procedures protective equipment as described ate unnecessary personnel. attempt to take action without sui protection. For further information ion". | tective equipment, in to breathe vapor and d in Section 8. | ncluding respiratory protection. mist. |
| SECTION 6: Accidental release m 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Protective equipment Emergency procedures 6.1.2. For emergency responders Protective equipment Environmental precautions Protective equipment Section 100 mm m 6.1.2. For emergency responders Protective equipment Section 100 mm m 6.2. Environmental precautions Prevent entry to sewers and public waters. N | : Do not Avoid a equipment a : Wear p : Evacua : Do not proper protect | enter fire area without proper pro all eye and skin contact and do no and emergency procedures protective equipment as described ate unnecessary personnel. attempt to take action without sui protection. For further information ion". | tective equipment, in to breathe vapor and d in Section 8. | ncluding respiratory protection. mist. |
| SECTION 6: Accidental release m 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Protective equipment Emergency procedures 6.1.2. For emergency responders Protective equipment 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters. N 6.3. Methods and material for contain | Do not Avoid a easures equipment a Wear p Evacuation Do not proper protect International classical statement Classical statement | enter fire area without proper pro all eye and skin contact and do no and emergency procedures protective equipment as described ate unnecessary personnel. attempt to take action without sui protection. For further information ion". | tective equipment, in to breathe vapor and d in Section 8. itable protective equ n refer to section 8: " waters. | ipment. Equip cleanup crew with |
| SECTION 6: Accidental release m 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Protective equipment Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters. N 6.3. Methods and material for contair Methods for cleaning up | Do not Avoid a easures equipment a Wear p Evacuation Do not proper protect International classical statement Classical statement | enter fire area without proper pro all eye and skin contact and do no and emergency procedures protective equipment as described ate unnecessary personnel. attempt to take action without sui protection. For further information ion". a if liquid enters sewers or public v aning up up any spills as soon as possible, | tective equipment, in to breathe vapor and d in Section 8. itable protective equ n refer to section 8: " waters. | ipment. Equip cleanup crew with |
| SECTION 6: Accidental release m 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Protective equipment Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters. N 6.3. Methods and material for contair Methods for cleaning up 6.4. Reference to other sections | : Do not Avoid a easures e equipment a : Wear p : Evacua : Do not proper protect lotify authoritie nment and cle : Clean shovel | enter fire area without proper pro all eye and skin contact and do no and emergency procedures protective equipment as described ate unnecessary personnel. attempt to take action without sui protection. For further information ion". a if liquid enters sewers or public v aning up up any spills as soon as possible, | tective equipment, in to breathe vapor and d in Section 8. itable protective equ n refer to section 8: " waters. | ipment. Equip cleanup crew wit Exposure controls/personal |
| SECTION 6: Accidental release m 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Protective equipment Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters. N 6.3. Methods and material for contair Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and perso | Do not Avoid a easures e equipment a Wear p Evacuation Do not proper protect Do not proper Cloan a Clean a Shovel | enter fire area without proper pro all eye and skin contact and do no and emergency procedures protective equipment as described ate unnecessary personnel. attempt to take action without sui protection. For further information ion". a if liquid enters sewers or public v aning up up any spills as soon as possible, | tective equipment, in to breathe vapor and d in Section 8. itable protective equ n refer to section 8: " waters. | ipment. Equip cleanup crew with |
| SECTION 6: Accidental release m 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Protective equipment Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters. N 6.3. Methods and material for contair Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and perso SECTION 7: Handling and storage | Do not Avoid a easures equipment a Wear p Evacuation Do not proper protect Do not proper Co not proper Clean is shovel | enter fire area without proper pro all eye and skin contact and do no and emergency procedures protective equipment as described ate unnecessary personnel. attempt to take action without sui protection. For further information ion". a if liquid enters sewers or public v aning up up any spills as soon as possible, | tective equipment, in to breathe vapor and d in Section 8. itable protective equ n refer to section 8: " waters. | ipment. Equip cleanup crew with |
| SECTION 6: Accidental release m 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Protective equipment Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Prevent entry to sewers and public waters. N 6.3. Methods and material for contair Methods for cleaning up | Do not Avoid a easures equipment a Wear p Evacua Do not proper protect Notify authorities Clean i shovel Clean i shovel Avoid a | enter fire area without proper pro all eye and skin contact and do no and emergency procedures protective equipment as described ate unnecessary personnel. attempt to take action without sui protection. For further information ion". a if liquid enters sewers or public v aning up up any spills as soon as possible, | tective equipment, in to breathe vapor and d in Section 8. itable protective equinaries of the section 8: " waters. using an absorbent or disposal. | ncluding respiratory protection. mist. |

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| Hygiene measures | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. |
|---|---|
| | |
| 7.2. Conditions for safe storage, includ | |
| Storage conditions | : Keep container tightly closed. Store in sealed containers below 30°C. |
| Incompatible materials | : Acids. Alcohols. Amines. Metals. Moisture. Oxidizing agent. Peroxides. Water. |
| Storage area | : Store in a well-ventilated place. Store away from heat. |
| 7.3. Specific end use(s) | |
| No additional information available | |
| SECTION 8: Exposure controls/per | sonal protection |
| 8.1. Control parameters | |
| No additional information available | |
| 8.2. Exposure controls | |
| Appropriate engineering controls | : Provide local exhaust or general room ventilation. |
| Personal protective equipment | : Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |
| Hand protection | : Neoprene or nitrile rubber gloves. |
| Eye protection | : Chemical goggles or face shield. Contact lenses should not be worn. |
| Skin and body protection | : Wear suitable protective clothing. |
| Respiratory protection | : Where exposure through inhalation may occur from use, respiratory protection equipment is |
| | recommended. NIOSH-certified combination organic vapor - amine gas (brown cartridge) respirator. |
| SECTION 9: Physical and chemical | properties |
| 9.1. Information on basic physical and | chemical properties |
| Physical state | : Liquid |
| Appearance | : Liquid. |
| Molecular mass | : 253.33 g/mol |
| Color | : Straw to amber. |
| Odor | : Mild. |
| Odor threshold | : No data available |
| Refractive index | : 1.497 |
| рН | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : < 0 °C |
| Boiling point | : > 100 °C decomposes |
| Flash point | : > 110 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : <1 mm Hg @ 20°C |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : 1.14 |
| VOC content | : <5% |
| Solubility | : Insoluble in water. Reacts with water. |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Evaluative properties | . Na data available |

: No data available Explosive properties Oxidizing properties : No data available Explosion limits : No data available

9.2. **Other information**

No additional information available

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| SECTION 10: Stability and reactivity | |
|--|---|
| 10.1. Reactivity | |
| No additional information available | |
| 10.2. Chemical stability | |
| Stable in sealed containers at temperatures belo | w 30°C. May slowly build nitrogen pressure. |
| 10.3. Possibility of hazardous reactions | |
| | of toxic hydrazoic acid. May form explosive azides on contact with copper, cadmium, brass, bronze, noisture in air, liberating methanol. |
| 10.4. Conditions to avoid | |
| Heat. Open flame. Sparks. | |
| 10.5. Incompatible materials | |
| Peroxides. Oxidizing agent. Alcohols. Acids. Am | ines. Metals. Moisture. Water. |
| 10.6. Hazardous decomposition products | |
| Hydrazoic Acid. Methanol. Organic acid vapors. | |
| SECTION 11: Toxicological informat | |
| 11.1. Information on toxicological effects | |
| Acute toxicity | : Not classified |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation Respiratory or skin sensitization | : Causes serious eye damage. : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |
| Symptoms/injuries after inhalation | : May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea. |
| Symptoms/injuries after skin contact | : May cause skin irritation. |
| Symptoms/injuries after eye contact | : Causes serious eye damage. |
| Symptoms/injuries after ingestion Reason for classification | : May be harmful if swallowed. : Expert judgment |
| | . Expert judgment |
| 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 | |
| Other adverse effects | : This substance may be hazardous to the environment. |
| Effect on ozone layer | : No additional information available |
| Effect on the global warming | : No known ecological damage caused by this product. |
| SECTION 13: Disposal consideration | 15 |
| 13.1. Waste treatment methods | |
| Waste disposal recommendations | : May be incinerated. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility. |
| Ecology - waste materials | : Avoid release to the environment. |
| | |

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| SECTION 44. Transm | | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|--|--------------------------------------|
| SECTION 14: Transpo | ort information | | | |
| 14.1. UN number | | | | |
| Not regulated for transport. | | | | |
| 14.2. UN proper shippi | ng name | | | |
| Not applicable | | | | |
| 14.3. Additional informat | ion | | | |
| Other information | : | No supplementary information | available. | |
| | | | | |
| Transport by sea | | | | |
| No additional information av | ailable | | | |
| Air transport | | | | |
| No additional information av | ailable | | | |
| SECTION 15: Regulat | orv information | | | |
| 15.1. US Federal regulation | | | | |
| p-AZIDOMETHYLPHENYI | | 90% (83315-74-6!) | | |
| TSCA Exemption/Exclusion | | | pplied for research and developme | ent purposes subject to the |
| | | R&D exemption under TSCA, | 40 CFR 720.36, and must meet the | e requirements of the |
| | | | on by a "technically qualified individ | |
| | | is not permitted in the United | terial for "commercial purposes" as States. | defined by 40 CFR 720.3(f) |
| p-Azidomethylphenyltrim | ethoxysilane (83315-7 | 4-6) | | |
| | | ances Control Act) inventory | | |
| 15.2. International regulation | ons | | | |
| No additional information av | ailable | | | |
| | | | | |
| 15.3. US State regulations | | | | |
| p-AZIDOMETHYLPHENYLT | | 0.0% (82315-74-61) | | |
| U.S California - Propositio | | No | | |
| U.S California - Propositio | | No | | |
| Toxicity | in oo Borolopinonkar | | | |
| U.S California - Propositio | n 65 - Reproductive | No | | |
| Toxicity - Female | | | | |
| U.S California - Propositio | n 65 - Reproductive | No | | |
| Toxicity - Male | | | | |
| p-Azidomethylphenyltrime | | | | |
| U.S California - Proposition 65 - | No significance risk level (NSRL) |
| Carcinogens List | Developmental Toxici | | | |
| - | | Female | Male | |
| No | No | No | No | |
| INU | 110 | | | |

SECTION 16: Other information

Abbreviations and acronyms

: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

Full text of H-phrases::

| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
|---------------|--|
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |

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HMIS III Rating Health : 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures Flammability : 2 Moderate Hazard Physical : 1 Slight Hazard

Prepared by safety and environmental affairs.

Date of issue: 07/21/2015 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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