

3-Methylbiphenyl Safety Data Sheet 17001Y0 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| SECTION 1: Identification | |
|---|---|
| 1.1. Identification | |
| | : Substance |
| Substance name | |
| | : 3-Methylbiphenyl |
| CAS No | : 643-93-6 |
| Product code | : 1700-1-Y0 |
| | : C13H12 |
| Synonyms | : 3-Phenyltoluene |
| Other means of identification | : MFCD00008533 |
| 1.2. Relevant identified uses of the substa | ance 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 | |
| | : (844) 523-4086 (3E Company - Account 10069) |
| Emergency number | . (644) 525-4000 (SE Company - Account 10009) |
| SECTION 2: Hazard(s) identification | |
| 2.1. Classification of the substance or mix | xture |
| Classification (GHS-US) | |
| Eye Irrit. 2A H319 - Causes serious eye irritatio | מנ |
| STOT SE 3 H335 - May cause respiratory irrita | |
| 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) | : H319 - Causes serious eye irritation H335 - May cause respiratory irritation |
| Precautionary statements (GHS-US) | P261 - Avoid breathing fumes, mist, spray, vapors 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 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 P337+P313 - If eye irritation persists: Get medical advice/attention 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 | |
| No additional information available | |
| 2.4. Unknown acute toxicity (GHS US) | |
| Not applicable | |

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| | | gredients | | |
|---|--|---|---|---|
| .1. Substance | | constituent | | |
| Substance type | : iviono | -constituent | | |
| Name | | Product identifier | % | Classification (GHS-US) |
| 3-Methylbiphenyl (Main constituent) | | (CAS No) 643-93-6 | <= 100 | Eye Irrit. 2A, H319 STOT SE 3, H335 |
| Full text of H-phrases: see section 16 | | | | |
| B.2. Mixture | | | | |
| Not applicable | | | | |
| SECTION 4: First aid measures | | | | |
| 1.1. Description of first aid measures | | | | |
| irst-aid measures general | where | e of accident or if you feel unwell, seek is possible). Move the affected personnel | away from the o | contaminated area. |
| First-aid measures after inhalation | | ove person to fresh air and keep comforta ation. Get medical advice/attention. | able for breathin | g. If not breathing, give artificial |
| First-aid measures after skin contact | | with plenty of soap and water. Get med | | |
| First-aid measures after eye contact | | diately flush eyes thoroughly with water that and easy to do. Continue rinsing. Get | | |
| First-aid measures after ingestion | | OT induce vomiting. Never give anything o out with water. Get medical advice/atte | | unconscious person. Rinse |
| 4.2. Most important symptoms and effe | cts, both | acute and delayed | | |
| Symptoms/injuries | | nost important known symptoms and effe nd/or in section 11. | ects are describe | ed in the labelling (see section |
| 4.3. Indication of any immediate medica | al attentio | n and special treatment needed | | |
| Freat symptomatically. | | | | |
| SECTION 5: Firefighting measures | | | | |
| | | | | |
| 5.1. Extinguishing media | | | | |
| 000 | : Alcoh | ol resistant foam. Carbon dioxide. Drv po | owder. Water so | ray. Use extinguishing media |
| | | ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire. | owder. Water sp | ray. Use extinguishing media |
| Suitable extinguishing media | appro | priate for surrounding fire. | owder. Water sp | ray. Use extinguishing media |
| Suitable extinguishing media | appro Ibstance o | priate for surrounding fire. | | ray. Use extinguishing media |
| Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard | appro Ibstance o : Thern | priate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement | ides. | |
| Suitable extinguishing media 5.2. Special hazards arising from the su | appro Ibstance of : Thern : Risk of | priate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement | ides. | |
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| Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard 5.3. Advice for firefighters | appro abstance of : Therm : Risk of conta : In cas : Wear | priate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement iners. | ides. . Use water spra ely due to the ri n combination v | ay or fog for cooling exposed sk of explosion. rith self contained breathing |
| 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 | appro abstance of : Therm : Risk of conta : In cas : Wear appar sures | priate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement iners. se of fire: Evacuate area. Fight fire remot gas tight chemically protective clothing i atus. For further information refer to sec | ides. . Use water spra ely due to the ri n combination v | ay or fog for cooling exposed sk of explosion. rith self contained breathing |
| 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 extended to the sub- protective extended to the sub- sub- Section 4 and the sub- sub- Section 4 and the sub- Section 4 | appro ibstance o : Therm : Risk o conta : In cas : Wear appar isures iguipment | priate for surrounding fire. or mixture nal decomposition generates: Carbon ox of explosion if heated under confinement iners. se of fire: Evacuate area. Fight fire remot gas tight chemically protective clothing i atus. For further information refer to sec | ides. . Use water spra ely due to the ri- n combination v tion 8: "Exposur | ay or fog for cooling exposed sk of explosion. rith self contained breathing e controls/personal protection". |
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For containment

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| 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 add | litional information available | | | |
| SECT | ION 7: Handling and storage | | | |
| 7.1. | Precautions for safe handling | | | |
| Precau | itions 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. | | |
| Hygien | e 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 | ng any incompatibilities | | |
| Techni | cal measures | : Comply with applicable regulations. | | |
| Storage conditions | | : Keep container closed when not in use. | | |
| Incompatible materials | | Defense Conting 40 on Incompatible Materials | | |

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 ar | nd chemical properties |
|---|-------------------------|
| Physical state | : Liquid |
| Color | : No data available |
| Odor | : No data available |
| Odor threshold | : No data available |
| рН | : No data available |
| Melting point | : 4 - 5 °C |
| Freezing point | : No data available |
| Boiling point | : 272 °C (@ 760 mm Hg) |
| 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 |
| Specific gravity / density | : 1.0135 g/ml (@ 25 °C) |
| Molecular mass | : 168.2344 g/mol |

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| 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 | |

Refractive index

: 1.6002 (@ 20 °C)

: Not classified

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. Hazardous decomposition products 10.6. 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** Information on toxicological effects 11.1. Acute toxicity : Not classified Skin corrosion/irritation : Not classified 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 : Not classified

Aspiration hazard

exposure)

| SECT | ION 12: Ecological informat | ion | | |
|----------|-------------------------------|-----------------|-----------------|-----|
| 12.1. | Toxicity | | | |
| No add | itional information available | | | |
| 12.2. | Persistence and degradability | | | |
| No add | itional information available | | | |
| 12.3. | Bioaccumulative potential | | | |
| No add | itional information available | | | |
| 12.4. | Mobility in soil | | | |
| No add | itional information available | | | |
| 12.5. | Other adverse effects | | | |
| No add | itional information available | | | |
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| SECTION 13: Disposal consideration 13.1. Waste treatment methods | ons |
|--|--|
| Waste treatment methods Waste 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 informatic Department of Transportation (DOT) In accordance with DOT | n |

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

3-Methylbiphenyl (643-93-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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 | |
|--|--|
| 3-Methylbiphenyl (643-93-6) | |
| Listed on the Canadian NDSL (Non-Domestic Substances List) | |

EU-Regulations

No additional information available

National regulations

3-Methylbiphenyl (643-93-6)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the TCSI (Taiwan Chemical Substance Inventory)

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 |
|---------------|---|
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |

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| NFPA health hazard | : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is 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 | : 1 Slight Hazard - Irritation or minor reversible injury possible |
| 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.