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| Product name: 3-Bronzo-Englichoxy-2-methylpyridine Stock number: CAS Mumber: | 1 Identification | |
| Stock number: H99227 CAS MUMPS: H99217 Addition of the supplier of the safety data sheet Addition of the supplier of the safety data sheet Addition of the safety data sheet Classification of the substance or mature in accordance with 29 CFR 1910 (OSHA HCS) Off Official data sheet Official data sheet Classification of the substance or mature in accordance with 29 CFR 1910 (OSHA HCS) Official data sheet Officia | | |
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| Thermor Fisher Scientific Chemicals, Inc. What Yill, Kin Science and Science (Inclusion of the second and se | Details of the supplier of the safety data sheet Manufacturer/Supplier: | |
| Proc Structure Proc | Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. | |
| Proceeding Proceeding Proceeding | Ward Hill, MA (01835-8099 | |
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| Emergency telephone number: During northolisations hous labores hous (Monday-Finday, Bam-Tom EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789. 21 Azard(s) Identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Own Constraints of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Own Constraints Applied To the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Own Constraints Applied To the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Own Constraints Charlos Constraints Constraints Charlos Constraints Constraints Constraints Constraints Constraints Constraints C | www.alfa.com | |
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| Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Of HSUG Corresion Eyre Dam, 1, H318 Causes serious eye damage. Acute Tox: A H302 Harmful if swallowed. Acute Tox: A Statements Mean of Conger Mean of Conger < | During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928 | -0789. |
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| GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms GHS05 GHS07 Signal word Danger Hazard pictograms Precautionary statements Proceutionary statements <td>Acute Tox. 4 H302 Harmful if swallowed. Hazards not otherwise classified No information known.</td> <td></td> | Acute Tox. 4 H302 Harmful if swallowed. Hazards not otherwise classified No information known. | |
| Weight of the second | GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) | |
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| Hazerd statements H32C Harms H32C Harms H32C Harms H32C Assesserious eye damage. H32C Harms P364 Wash throughly after handling. P305 HP332 IF IN VESS. Rinse calludsly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 HP332 IF SWALLOWED. Call a POISON CENTER/doctor//if you feel unwell. P301 Immediately call a POISON CENTER/doctor//if you feel unwell. P305 HP332 IF SWALLOWED. Call a POISON CENTER/doctor//if you feel unwell. P305 HP312 IF SWALLOWED. Call a POISON CENTER/doctor//if you feel unwell. P305 HP313 IF SWALLOWED. Call a POISON CENTER/doctor//if you feel unwell. WHMS classification D28 - Toxic material causing other toxic effects D290 Classification system MMS rating's Scale 0-4) (Hazardo as Materials Identification System) Hard function of hydrogenetic terms Provision Materials Identification system Physical Hazard = 1 Provision of Information on ingredients Provision of Information on ingredients Schemical Characterization: Substances CASE Description: S4923-31-34 S-Bronce-6-hydroxy-2- methyloyridine | | |
| H318 Causes serious eye damage. Precautionary statements P200 P301+P33B IF IN B-IES. Thisse cautionally with after fandling. P301+P31 IF IS WIES. Call a POISON CENTER/doctor/if you feel unwell. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification system FMIS rations (scale 0-4) (Hazardous Materials Identification System) Wiesen Path (acute effects) = 2 PanmabHy = 1 P301 P31 and VPVB assessment P31 Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS Description of first aid measures After inflation Supply firsh air. If required, provide artificial respiration. Keep patient warm. Seek inmediate medical advice. After self acute artificial respiration. Keep patient warm. Seek intervalue and scap and rinse thoroughly. Measter Miestian and advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After several windowing Seek Medical tradeuternet. | Hazard statements | |
| P280 Wear protective gloves/protective clothing/eye protection. P264 Wear protective gloves/protective clothing/eye protection. P264 Wear browdpit with mater for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301 Immediately call a POISON CENTER/doctor/fif you feel unwell. P301 PSWALLOWED: Call a POISON CENTER/doctor/fif you feel unwell. P301 If SWALLOWED: Call a POISON CENTER/doctor/fif you feel unwell. P301 Dison Central accordance with local/regional/national/international regulations. WHMS classification Dison Central accordance with local/regional/national/international regulations. WHMS classification system Himms classification System HMINS ratings (scale 0-4) Headth (acute effects) = 2 Headth (acute effects) = 2 Physical Hazard = 1 Other hazards Results of PBT and VPB assessment PBT: Not applicable. PBT and VPA assessment 2492:3:31-8:3:8/arom-6-hydroxy-2-methylpyridine Substances CASE Description: 5492:3:31-8:3:8/arom-6-hydroxy-2-methylpyridine 4 First-aid measures Description of first aid measures After inhomation Supply fresh at: Inequired, provide artificial respiration. Keep patient warm. Supply fresh at: | H318 Causes serious eye damage. | |
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| Willis Classification D2B - Toxic material causing other toxic effects D2B - Toxic material causing other toxic effects </td <td>P310 Immediately call a POISON CENTER/doctor/ P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell.</td> <td></td> | P310 Immediately call a POISON CENTER/doctor/ P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell. | |
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| Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 2 Fammability = 1 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. 3 Composition/Information on ingredients Chemical characterization: Substances CAS# Description: 54923-31-8 3-Bromo-6-hydroxy-2-methylpyridine 4 First-aid measures Atter inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After esk incontact Immediate medical advice. After esk copened eye for several minutes under running water. Then consult a doctor. After esk medical advice. | | |
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| Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. vPvB: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 54923-31-8 3-Bromo-6-hydroxy-2-methylpyridine 4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediate medical advice. After symediate medical treatment. Seek immediate medical advice. | REACTIVITY 1 Physical Házard = 1 | |
| vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CASH Description: 54923-31-8 3-Bromo-6-hydroxy-2-methylpyridine 4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After swallowing Seek medical treatment. | Results of PBT and vPvB assessment | |
| Characterization: Substances CAS# Description: 54923-31-8 3-Bromo-6-hydroxy-2-methylpyridine 4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. | | |
| CAS# Description: 54923-31-8 3-Bromo-6-hydroxy-2-methylpyridine 4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. | 3 Composition/information on ingredients | |
| 54923-31-8 3 ² Bromo-6-hydroxy-2-methylpyridine 4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. | | |
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| Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. | Description of first aid measures After inhalation | |
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| Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. | After skin contact | |
| After swallowing Seek medical treatment. | Seek immédiate medical advice. | |
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Product name: 3-Bromo-6-hydroxy-2-methylpyridine

(Contd. of page 1)

Information for doctor

Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen bromide (HBr) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the aves Avoid contact with the eyes. Maintain an ergonomically appropriate working environment. **Breathing equipment:** Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Penetration time of glove material (in minutes)** Not determined **Eye protection:** Tightly sealed goggles **Body protection:** Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Solid Odor: Not determined Odor threshold: Not determined pH-value: Not applicable. 199-203 °C (390-397 °F) Not determined

| Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) | 199-203 °C (390 Not determined Not determined Not determined. |
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Product name: 3-Bromo-6-hvdroxv-2-methvlpvridine

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| | | Reviewed on 09/30/2014 |
|---|---|------------------------|
| Product name: 3-Bromo-6-hydroxy - | 2-methylpyridine | |
| | | (Contd. of page 2) |
| Ignition temperature: Decomposition temperature: Auto igniting: | Not determined Not determined Not determined. | |
| Danger of explosion: Explosion limits: | Not determined. | |
| Lower: Upper: | Not determined Not determined | |
| Vapor pressure: | Not applicable. | |
| Density: Relative density | Not determined Not determined | |
| Vapor density Evaporation rate | Not applicable. Not applicable. | |
| Solubility in / Miscibility with Water: | Not determined | |
| Partition coefficient (n-octanol/water Viscosity: | | |
| dynamic: kinematic: | Not applicable. Not applicable. | |
| Other information | No further relevant information available. | |
| 10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions R Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen bromide | nt information available. | |
| Reproductive foxicity: No effects kno Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effe | e irritation prious eye damage. hown. hown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA o nn. - repeated exposure: No effects known. - single exposure: No effects known. | |
| 12 Ecological information Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No further Bioaccumulative potential No further Mobility in soil No further relevant information: General notes: Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant | her relevant information available. relevant information available. rmation available. quantities to reach ground water, water course or sewage system. nt | |
| 13 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be r | or national regulations to ensure proper disposal. nade according to official regulations. | |
| 14 Transport information | | |
| UN-Number DOT, ADN, IMDG, IATA | Notannlicable | |
| UN proper shipping name | Not applicable | |
| DOT, ADN, IMDG, ĬATA Transport hazard class(es) | Not applicable | |
| DOT, ADR, ADN, IMDG, IATA | | |
| Class | Not applicable | |
| Packing group DOT, IMDG, IATA | Not applicable | |
| Environmental hazards: | Not applicable. | |
| Special precautions for user Transport in bulk according to Anne | Not applicable. x II of MARPOL73/78 and the IBC Code Not applicable. | |
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USA

| Product name: 3-Bromo-6-hydroxy-2-methylpyridine |
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| Transport/Additional information: |
| DOT Marine Pollutant (DOT): No |
| UN "Model Regulation": |
| |
| 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms |
| GHS05 GHS07 |
| Signal word Danger Hazard statements H302 Harmful if swallowed. H318 Causes serious eye damage. Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P300 Immediately call a POISON CENTER/doctor/ P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell. |
| National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 |
| Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. |
| The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. |
| 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. |
| Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCS0: Lethal concentration, 50 percent LDS0: Lethal dose, 50 percent UCS0: Lethal dose, 50 percent UCS0: Lethal dose, 50 percent |

vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)