

Safety Data Sheet per OSHA HazCom 2012



Product name: Methyl 3-amino-6-bromopyrazine-2-carboxylate

(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

| | 5 Fire-fighting measures | | |
|---|--|--|--------------|
| | Extinguishing media Suitable extinguishing agents Carbon of Special hazards arising from the substa If this product is involved in a fire, the follor 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. | lioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. ance or mixture wing can be released: | |
| 6 | Accidental release measures | | |
| - | Personal precautions, protective equip Wear protective equipment. Keep unprote Ensure adequate ventilation Environmental precautions: Do not allow | w product to reach sewage system or any water course. and cleaning up: Ensure adequate ventilation. pecial measures required. | |
| 7 | Handling and storage | | |
| | 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 comn Do not store together with acids. | non storage facility: | |
| | Store away from strong bases | | |
| | Store away from oxidizing agents. Further information about storage cond | ditions: | |
| | Keep container tightly sealed. Store in cool, dry conditions in well sealed | | |
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| | Specific end use(s) No further relevant in | nformation available. | |
| 8 | Specific end use(s) No further relevant in | nformation available. | |
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Product name: Methyl 3-amino-6-bromopyrazine-2-carboxylate

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| Boiling point/Boiling range: | | |
|---|---|-------------------|
| Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting: | Not determined Not determined Not determined. Not determined Not determined. | (Contd. of page 2 |
| Danger of explosion: Explosion limits: | Not determined. Not determined. | |
| Lower: | Not determined Not determined | |
| Upper: Vapor pressure: | Not determined Not applicable. | |
| Density: | Not determined | |
| Relative density Vapor density | Not determined. Not applicable. | |
| Evaporation rate | Not applicable. | |
| Solubility in / Miscibility with Water: | Not determined | |
| Partition coefficient (n-octanol/water): | | |
| Viscosity: dynamic: | Not applicable. | |
| kinematic: | Not applicable. | |
| Other information | No further relevant information available. | |
| 0 Stability and reactivity | | |
| Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions Rec Conditions to avoid No further relevant Incompatible materials: Acids Bases Oxidizing agents Hazardous decomposition products: | nended storage conditions. o be avoided: Decomposition will not occur if used and stored according to specifications. acts with strong oxidizing agents t information available. | |
| Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen bromide | | |
| Reproductive toxicity: No effects know Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect | in irritation. rious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation. | |
| 2 Ecological information Toxicity Aquatic toxicity: No further relevant infor Persistence and degradability No further Bioaccumulative potential No further re Mobility in soil No further relevant inforr Additional ecological information: General notes: Do not allow undiluted product or large q Avoid transfer into the environment. Results of PBT and vPvB assessment | rer relevant information available. elevant information available. mation available. quantities to reach ground water, water course or sewage system. t | |
| PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva | Int information available. | |
| PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva 3 Disposal considerations Waste treatment methods | or national regulations to ensure proper disposal. | |
| PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva 3 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be ma | or national regulations to ensure proper disposal. | |
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| | Reviewed on 09/22/2014 | | |
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| Product name: Methyl 3-amino-6-bromopyrazine-2-carboxylate | | | |
| | (Contd. of page 3) | | |
| Environmental hazards: | Not applicable. | | |
| Special precautions for user | Not applicable. | | |
| Transport in bulk according to Annex II of MARP | OL73/78 and the IBC Code Not applicable. | | |
| Transport/Additional information: | | | |
| DOT Marine Pollutant (DOT): | Νο | | |
| UN "Model Regulation": | - | | |
| | | | |
| Hazard pictograms GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/m. P280 Wear protective gloves/protective P305+P351+P338 IF IN EYES: Rinse cautiously with P305+P351+P338 IF IN EYES: Rinse cautiously with P305+P351+P338 IF IN EYES: Rinse cautiously with P305+P351+P338 IF IN EYES: Rinse cautiously with P305+P351+D338 IF IN EYES: Rinse cautiously with P305+P351+P338 IF IN EYES Rinse cautiously with P305+P351+P351+P338 IF IN EYES Rinse cautiously with P305+P351+P338 IF IN | Tabeled in accordance with 29 CFR 1910 (OSHA HCS) nist/vapours/spray. re clothing/eye protection/face protection. ith water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. presh air and keep comfortable for breathing. accordance with local/regional/national/international regulations. Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted | | |
| SARA Section 313 (specific toxic chemical listing California Proposition 65 Prop 65 - Chemicals known to cause cancer Subs Prop 65 - Developmental toxicity Substance is not Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity, male Substance Information about limitation of use: For use only b Other regulations. limitations and prohibitive reg | bstance is not listed. bstance is not listed. nce is not listed. by technically qualified individuals. gulations ling to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. cle 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the | | |
| Chemical safety assessment: A Chemical Safety A | Assessment has not béen carried out. | | |
| 16 Other information Employers should use this information only as a sup information to ensure proper use and protect the hea conformance with this Material Safety Data Sheet, or | pplement to other information gathered by them, and should make independent judgement of suitability of this balth and safety of employees. This information is furnished without warranty, and any use of the product not in or in combination with any other product or process, is the responsibility of the user. | | |
| Department issuing SDS: Global Marketing Depart. Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereus DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (CCGH: Comprehenced Service of Hogeth Administration (USA) | rtment uses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) al Society) da) s (USA) | | |

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

USA