

2-Bromonaphthalene Safety Data Sheet 16009X9 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/15/2017 Version: 1.0

SECTION 1: Identification			
I.1. Identification			
Product form	: Substance		
Substance name	: 2-Bromonaphthalene		
CAS No	: 580-13-2		
roduct code	: 1600-9-X9		
ormula	: C10H7Br		
ynonyms	: 2-Bromonaphthalene		
Other means of identification	: MFCD00004051		
.2. Relevant identified uses of the substance or mixture and uses advised against			
Ise of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development		
.3. Details of the supplier of the safe	ety data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Machua, FL 32615 - United States of Americ ⁻ (386) 462-0788 - F (386) 462-7097 <u>ofo@synquestlabs.com</u> - <u>www.synquestlabs</u>			
.4. Emergency telephone number			
mergency number	: (844) 523-4086 (3E Company - Account 10069)		
SECTION 2: Hazard(s) identification	on		
.1. Classification of the substance of	or mixture		
Classification (GHS-US)			
Eye Irrit. 2A H319 - Causes seriou	us eye irritation		
Eye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause res	us eye irritation		
Eye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause resFull text of H-phrases: see section 16	us eye irritation		
Eye Irrit. 2A H319 - Causes seriou STOT SE 3 H335 - May cause res Full text of H-phrases: see section 16 2.2. Label elements	us eye irritation		
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Eye Irrit. 2A H319 - Causes seriou STOT SE 3 H335 - May cause res Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	 us eye irritation spiratory irritation : : : GHS07 : Warning 		
Eye Irrit. 2A H319 - Causes seriou STOT SE 3 H335 - May cause res Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	us eye irritation spiratory irritation : Control of the spiratory irritation : Control of the spiratory irritation		
Eye Irrit. 2A H319 - Causes seriou STOT SE 3 H335 - May cause res Full text of H-phrases: see section 16 2.2. Label elements 3.3. GHS-US Hazard pictograms (GHS-US) Signal word (GHS-US)	 seye irritation spiratory irritation : irritation : irritation : Warning : H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation 		

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P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse 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 Other hazards No additional information available Unknown acute toxicity (GHS US) Not applicable SECTION 3: Composition/information on ingredients Substance Substance type : Mono-constituent Name Product identifier % **Classification (GHS-US)** 2-Bromonaphthalene (CAS No) 580-13-2 <= 100 Acute Tox. 4 (Oral), H302 (Main constituent) Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Full text of H-phrases: see section 16 **Mixture** Not applicable **SECTION 4: First aid measures Description of first aid measures** First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area. Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial First-aid measures after inhalation respiration. Get immediate medical advice/attention. First-aid measures after skin contact Wash with plenty of soap and water. Get immediate medical advice/attention. First-aid measures after eye contact Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse First-aid measures after ingestion mouth out with water. Get immediate medical advice/attention. Most important symptoms and effects, both acute and delayed Symptoms/injuries The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11. Indication of any immediate medical attention and special treatment needed Treat symptomatically. SECTION 5: Firefighting measures **Extinguishing media** Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire. Special hazards arising from the substance or mixture Fire hazard : Thermal decomposition generates: Carbon oxides. Hydrogen bromide. Advice for firefighters **Firefighting instructions** : In case of fire: Evacuate area. Wear gas tight chemically protective clothing in combination with self contained breathing Protection during firefighting apparatus. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 6: Accidental release measures			
6.1.	Personal precautions, protective equipment and emergency procedures		
General r	neasures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.	
6.1.1.	For non-emergency personnel		
Emergen	cy procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.	

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refer to section 8: "Exposure controls/personal protection". 6.2. Environmental precautions Avoid release to the environment. Notify authorities if product enters sewers or public waters. 6.3. Methods and material for containment and cleaning up For containment : Stop leak if safe to do so. Wethods for cleaning up : Stop leak if safe to do so. Cher information : For disposal of solid materials or residues refer to section 13 : "Disposal considerations". 6.4. Reference to other sections	6.1.2. For emergency respon	ders
Avoid release to the environment. Notify authorities if product enters sewers or public waters. 6.3. Methods and material for containment and cleaning up For containment : Stop leak if safe to do so. Wethods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust. 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 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 dust, mist, spray. 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, including any incompatibilities Fechnical measures : Comply with applicable regulations. Storage conditions : Keep container closed when not in use. ncompatible materials : Refer to Section 10 on Incompatible Materials.	Protective equipment	
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ncompatible materials : Refer to Section 10 on Incompatible Materials.	Technical measures	: Comply with applicable regulations.
·	Storage conditions	: Keep container closed when not in use.
Storage area : Store in dry, cool, well-ventilated area.	Incompatible materials	: Refer to Section 10 on Incompatible Materials.
	Storage area	Store in dry cool well-ventilated area

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

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 0.4 Infor ation on basis physical and showing r

9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: 52 - 55 °C
Freezing point	: No data available
Boiling point	: 281 - 282 °C
Flash point	: 113 °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

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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	: 1.605 g/cm ³ (at 25 °C)
Molecular mass	: 207.067 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.

SECTION 11: Toxicological information 11.1. Information on toxicological effects : Oral: Harmful if swallowed. Acute toxicity Skin corrosion/irritation Causes skin irritation. Causes serious eye irritation. Serious eye damage/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)

Aspiration hazard

: Not classified

: Not classified

SECTIO	N 12: Ecological information
12.1. T	Foxicity
No addition	nal information available
12.2. P	Persistence and degradability
No addition	nal information available

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12.3.	Bioaccumulative potential			
No addit	itional information available			
12.4.	Mobility in soil			
No additional information available				
12.5.	Other adverse effects			
No addit	tional information available			

SECTION 13: Disposal considerations

Waste treatment methods 13.1.

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 information**

Department of Transportation (DOT)

In accordance with DOT

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

2-Bromonaphthalene (580-13-2)

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

2-Bromonaphthalene (580-13-2)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

2-Bromonaphthalene (580-13-2)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican national Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

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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: Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
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
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
NFPA fire hazard NFPA reactivity	 incapacitation or possible residual injury unless prompt medical attention is given. 1 - Must be preheated before ignition can occur. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
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.