



Page 1/4 Printing date 11/07/2017 Revision date 11/06/2017 Version 1

(Contd. on page 2)

	Version 1
1 Identification	
Product identifier	
Product name: <u>3-Bromoanisole</u>	
Stock number: A15625, L02602 CAS Number: 2398-37-0 50	
EC number: 219-264-5 Polorent identified upon of the substance or mixture and upon advised excinct.	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660_	
Fax: 800-322-4757 Email: tech@alfa.com	
www.alfa.com Information Department: Health, Safety and Environmental Department Emergency telephone number:	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.	
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Flam. Liq. 4 H227 Combustible liquid. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms Not applicable Signal word Warning	
Hazard statements H227 Combustible liquid. Precautionary statements P210 Keep away from flames and hot surfaces. No smoking.	
Precautionary statements P210 Keep away from flames and hot surfaces. No smoking. P280 Wear protective gloves / eye protection / face protection. P370+P378 In case of fire: Use for extinction: CO2, powder or water spray. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification B3 - Combustible liquid	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1 REALTH I Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description:	
2398-37-0 3-Bromoanisole Concentration: <100%	
Identification number(s): EC number: 219-264-5	
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	
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.	
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.	
(Contd.	on page 2)

Product name: 3-Bromoanisole

(Contd. of page 1)

```
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
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

Ensure adequate ventilation for the product to reach sewage system or any water course. Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Prevention of secondary hazards: Keep away from ignition sources. 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. Protective Action Criteria for Chemicals PAC-1: 30 mg/m3 PAC-3: 2,000 mg/m3

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: The 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 soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. 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 multi-purpose combination (US) or type ABEK (EN 14387) 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 such as NIOSH (USA) or CEN (EU). Protection of hands:

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. Material of gloves Fluorocarbon rubber (Viton) Penetration time of glove material (in minutes) 480

Glove thickness: 0.7 mm Eye protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.

9 Physical and chemical properties		
Information on basic physical and cl General Information Appearance: Form: Odor: Odor: Odor threshold:	hemical properties Liquid Not determined Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 210-211 °C (410-412 °F) Not determined	
Flash point: Flammability (solid, gaseous)	93 °C (199 °F) Not determined.	
	(Contd. on page 3) USA	

Safety Data Sheet

Product name: 3-Bromoanisole

(Con	td. of pa	ige 2)

		(Contd. of page 2)
Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined.	
Danger of explosion:	Not determined.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density at 20 °C (68 °F):	Not determined 1.489 g/cm³ (12.426 lbs/gal)	
Relative density	Not determined.	
Vapor density Evaporation rate	Not determined. Not determined.	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix	
Partition coefficient (n-octanol/water		
Viscosity: dynamic:	Not determined.	
kinematic:	Not determined.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under recom	nmended storage conditions	
Thermal decomposition / conditions	to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions R Conditions to avoid No further releva		
Incompatible materials: Oxidizing age	ents	
Hazardous decomposition products Carbon monoxide and carbon dioxide		
Hydrogen bromide		
11 Toxicological information		
Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for	classification: No data	
Skin irritation or corrosion: May cause	se irritation	
Eye irritation or corrosion: May caus Sensitization: No sensitizing effects k Germ cell mutagenicity: No effects k	nown.	
Germ cell mutagenicity: No effects ki	nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects kno		
	/ - repeated exposure: No effects known.	
	/ - single exposure: No effects known.	
Aspiration hazard: No effects known.		
Subacute to chronic toxicity: No effe Additional toxicological information	cts known. : To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant in	nformation available.	
Aquatic toxicity: No further relevant in Persistence and degradability No fur Bioaccumulative potential No further	ther relevant information available.	
Mobility in soil No further relevant info	prmation available.	
Additional ecological information: General notes: Avoid transfer into the	environment	
Results of PBT and vPvB assessme	nt	
PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further relev	/ant information available.	
13 Disposal considerations		
Waste treatment methods		
Recommendation Consult state, local	or national regulations to ensure proper disposal.	
Uncleaned packagings: Recommendation: Disposal must be i	nade according to official regulations.	
14 Transport information		
UN-Number		
DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA	Nick and the	
Class Packing group	Not applicable	
Packing group DOT, ADR, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Anne	x II of MARPOL73/78 and the IBC Code Not applicable.	(0
		(Contd. on page 4, USA
		20/1

Product name: 3-Bromoanisole

	(Contd. of page 3
Transport/Additional information:	
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	Not applicable
15 Regulatory information	
GHS label elements The product is classified and Hazard pictograms Not applicable Signal word Warning Hazard statements H227 Combustible liquid. Precautionary statements P210 Keep away from flames and hot surfa P280 Wear protective gloves / eye protecti P370+P378 In case of fire: Use for extinction: CO P403+P235 Store in a well-ventilated place. Keep P501 Dispose of contents/container in acco National regulations All components of this product are listed in the U. All components of this product are listed on the C SARA Section 313 (specific toxic chemical list California Proposition 65 Prop 65 - Developmental toxicity, female Substance Information about limitation of use: For use on Other regulations, limitations and prohibitive I Substance of Very High Concern (SVHC) acco The conditions of restrictions according to Art market and use must be observed. Substance is not listed.	ion / face protection. 22, powder or water spray. o cool. ordance with local/regional/national/international regulations. S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. Sanadian Non-Domestic Substances List (NDSL). tings) Substance is not listed. Substance is not listed. Not listed. not listed. not listed. not listed. not listed. not listed. not sited. not listed. not listed. not listed. not sited. not listed. not
information to ensure proper use and protect the	supplement to other information gathered by them, and should make independent judgement of suitability of this health and safety of employees. This information is furnished without warranty, and any use of the product not in ombination with any other product or process, is the responsibility of the user.
	partment on date and version number are in the header of each page.
Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises danger IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: Loropean Inventory of Existing Commercial Chemical S CAS: Chemical Abstracts Service (division of the American Chem HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Ca LC50: Lethal concentration, 50 percent DBT: Persistent, Bioaccumulative ACGIH: American Conference of Governulative ACGIH: American Conference of Governulative ACGIH: American Conference of Governulative NTP: National Toxicology Program (USA) NTP: National Toxicology Program (USA) INTP: National Toxicology Program (USA)	reuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) Substances nical Society) anada) iists (USA)