



1	Identification
	Product identifier
	Product name: 4-Bromo-1,3,5-trimethylpyrazole
	Stock number: A12039 CAS Number: 15801-69-1
	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: 800-32 <u>2</u> -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)
	The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.
	Label elements GHS label elements Not applicable
	Hazard pictograms Not applicable Signal word Not applicable
	Hazard Statements Not applicable WHMIS classification Not controlled
	Classification system
	HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
	HEALTH I FRE I FREACTIVITY I Physical Hazard = 1
	Other hazards
	Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.
J	Composition/information on ingredients Chemical characterization: Substances
	CAS# Description: 15801-69-1 4-Bromo-1,3,5-trimethylpyrazole
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.
	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
Ŭ	Extinguishing media
	Suitable extinguishing agents Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed containers. 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
	Hydrogen bromide (HBr) Nitrogen oxides (NOx)
	Possibly Hydrogen cyanide (HCN) 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
	Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
	Ensure adequate ventration Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Aborth with liquid birding metarial (good distantic solid birders, universal birders, acudust)

Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Prevention of secondary hazards: No special measures required.

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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.

See Section 13 for disposal information	1.				
7 Handling and storage					
Handling					
Precautions for safe handling Keep container tightly sealed.					
Store in cool, dry place in tightly closed containers.					
Information about protection against explosions and fires: No information known.					
Conditions for safe storage, includin Storage	g any incompatibilities				
Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: No information known.					
Further information about storage conditions:					
Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.					
Specific end use(s) No further relevan	t information available.				
8 Exposure controls/personal prot	tection				
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: Not required.				
Additional information: No data					
Exposure controls					
Personal protective equipment General protective and hygienic measures					
The usual precautionary measures for I	handling chemicals should be followed.				
Keep away from foodstuffs, beverages Remove all soiled and contaminated clo Wash hands before breaks and at the e	othing immediately.				
Wash hands before breaks and at the e Maintain an ergonomically appropriate	end of work. working environment				
Breathing equipment: Use suitable re-	spirator when high concentrations are present.				
Protection of hands: Impervious gloves					
Check protective gloves prior to each u	se for their proper condition.				
Eve protection: Safety dasses	y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.				
Body protection: Protective work cloth	ning.				
9 Physical and chemical properties					
Information on basic physical and ch	hemical properties				
General Information Annual Annua					
Form:	Liquid				
Odor: Odor threshold:	Not determined Not determined.				
pH-value:	Not determined.				
Change in condition Melting point/Melting range:	Not determined				
Boiling point/Boiling range:	101-102 °C (214-216 °F) (15mm Hg)				
Sublimation temperature / start:	Not determined				
Flash point:	Not applicable Not determined				
Flammability (solid, gaseous)	Not determined.				
Ignition temperature: Decomposition temperature:	Not determined Not determined				
Auto igniting:	Not determined.				
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.				
Lower:	Not determined				
Upper: Vapor pressure:	Not determined Not determined				
Density:	Not determined				
Relative density Vapor density	Not determined. Not determined.				
Evaporation rate	Not determined.				
Solubility in / Miscibility with Water: Not determined					
Partition coefficient (n-octanol/water): Not determined.					
Viscosity: dynamic:	Not determined.				
kinematic: Other information	Not determined. No further relevant information available.				
10 Stability and reactivity					
Reactivity No information known.					
Chemical stability Stable under recom	imended storage conditions.				

Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents No information known.

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(Contd. of page 1)

Product name: 4-Bromo-1,3,5-trimethylpyrazole				
Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen bromide Nitrogen oxides Possibly Hydrogen cyanide (HCN)		(Contd. of page 2)		
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 irritation Eye irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Germ cell mutagenicity: No effects known. Garcinogenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: 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 information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further relevant 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 made according to official regulations.				
14 Transport information Not a hazardous material for transportation.				
UN-Number DOT, IMDG, IATA	None			
UN proper shipping name DOT, IMDG, IATA	None			
Transport hazard class(es)	None			
DOT, ADR, IMDG, IATA	Nana			
Class Packing group	None			
DOT, IMDG, IATA	None			
Environmental hazards:	Not applicable.			
Special precautions for user	Not applicable.			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Coc Transport/Additional information:	Not dangerous according to the above specifications.			
DOT				
Marine Pollutant (DOT):	No			
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable Hazard statements Not applicable Mational 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. SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity regulations is not listed. Prop 65 - Developmental toxicity regulatione is not listed. Prop 65 - Developmental toxicity female Substance is not listed. Prop 65 - Developmental toxicity regulations 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.				
Substance of Very High Concern (SVHC) according to the REACH Regula	tions (EC) No. 1907/2006. Substance is not listed.	(Contd. on page 4) USA		

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(Contd. of page 3) 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.

conformance with this Material Safety Data Sheet, or in con Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Maritime Code for Dangerous Goods 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) LC50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent US50: Lethal dose, 50 percent CACGHI: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA