



Reviewed 01/07/	12/2000
1 Identification	
Product identifier Product name: 2-Bromo-2'-chloroacetophenone	
Stock number: H27303	
CAS Number:	
5000-66-8 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:	
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 Cląssification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS05 Corrosion	
Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eve Dam 1 H318 Causes serious eve damage	
Eye Dam. 1 H318 Causes serious eye damage. Hazards not otherwise classified Lachrymator	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
Hazard pictograms	
GHS05	
Signal word Danger	
Hazard statements H314 Causes severe skin burns and eve damage.	
Precautionary statements	
P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D2B - Toxic material causing other toxic effects E - Corrosive material	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH Image: Bar and the second s	
Image:	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients Chemical characterization: Substances	
CAS# Description: 5000-66-8 2-Bromo-2'-chloroacetophenone	
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4 First-aid measures Description of first aid measures	
General information Immediately remove any clothing soiled by the product. 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 our contract Pinse opproad ove for several minutes under running water. Then consult a dector	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	00000
(Contd. or	USA -

Product name: 2-Bromo-2'-chloroacetophenone

Information for doctor

Most important symptoms and effects, both acute and delayed Causes severe skin burns.

Causes serious eve damage 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

Hydrogen chloride (HCl) 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 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). Use neutralizing agent. Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

Revention 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: Not required. Additional information: No data

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.

Avoid contact with the eyes and skin.

Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. 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 Full face protection

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physic General Information Appearance:	al and chemical properties	
'Form: Color: Odor: Odor threshold:	Liquid Pale yellow Not determined Not determined.	
pH-value:	Not determined.	

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Product name: 2-Bromo-2'-chloroacetophenone

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Product name: 2-Bromo-2'-chloroac	etophenone				
		(Contd. of page 2)			
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 105 °C (221 °F) (1 mmHg) Not determined				
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	> 110 °C (> 230 °F) Not determined. Not determined Not determined Not determined.				
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.				
Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	Not determined Not determined 1.6 g/cm ³ (13.352 lbs/gal) Not determined. Not determined. Not determined.				
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water):	Not miscible or difficult to mix				
Viscosity: dynamic: kinematic: Other information	Not determined. Not determined. No further relevant information available.				
10 Stability and reactivity Reactivity No information known. 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 Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen chloride (HCI) Hydrogen bromide					
11 Toxicological information Information on toxicological effects Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: This product is a lachrymator. Causes serious eye damage. Sensitization: No sensitizing effects known. Germ cell mutagenicity: 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. 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. 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	r national regulations to ensure proper disposal.				
14 Transport information UN-Number					
DOT, IMDG, IATA UN proper shipping name	UN1760				
DOT IMDG, IATA	Corrosive liquids, n.o.s. (2-Bromo-2'-chloroacetophenone) CORROSIVE LIQUID, N.O.S. (2-Bromo-2'-chloroacetophenone)	(Contra on some 1)			
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Product name: 2-Bromo-2'-chloroacetophenone				
	(Contd. of page 3)			
Transport hazard class(es) DOT				
Class Label Class Label	8 Corrosive substances. 8 8 (C9) Corrosive substances 8			
TMDG, IATA	8 Corrosive substances.			
Label	8 Corrosive substances. 8			
Packing group DOT, IMDG, IATA Environmental bazards:	II Not applicable			
Environmental hazards: Special precautions for user	Not applicable. Warning: Corrosive substances			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	0			
Transport in bulk according to Annex it of MARCOLTS/To and the IBC code				
DOT Marine Pollutant (DOT):	No			
UN "Model Regulation":	UN1760, Corrosive liquids, n.o.s. (2-Bromo-2'-chloroacetophenone), 8, II			
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 Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements H314 Causes severe skin burns and eye damage. Protecautionary statements National regulations National regulations National regulations National regulations National regulations National regulations National regulations National regulations National regulations National regulations 01 (Severific toxic chemical Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is not listed. National regulations 05 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female 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, male Substanc				
16 Other information Employers should use this information only as a supplement to other information	n gathered by them, and should make independent judgement of suitability of this s. This information is furnished without warranty, and any use of the product not in			
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: TI: Technical Instructions by the "International Civil Aviation Organization" ICAO: TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) ADR: Accord europeen sur le transport des marchandises dangereuses par Roule (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association ATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCG0: Lethal dose, 50 percent UDB: Lethal concernication, Decement LDG0: Lethal dose, 50 percent VerW: very Persistent and very Bicaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Safety and Health Administration (USA)				