

Safety Data Sheet per OSHA HazCom 2012

1 Identification
Product identifier Product name: 5-Bromo-4-chloro-3-indolyl-beta-D-glucuronidecyclohexylamine salt
Stock number: B21195 CAS Number: 18656-96-7
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) 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)
(Hazardous Materials Identification System) HEALTH I HEALTH Health (acute effects) = 1 FIRE Flammability = 1 REACTIVITY 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: 18656-96-7 5-Bromo-4-chloro-3-indolyl-beta-D- glucuronidecyclohexylamine salt
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.
Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly.
Seek immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek médical 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.
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) Hydrogen chloride (HCl)
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 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.
Methods and material for containment and cleaning up: Pick up mechanically. Prevention of secondary hazards: No special measures required. (Contd. on page 2)

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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.

7 Handling and storage

Handling Precautions for safe handling Handle under dry protective gas. 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, including any incompatibilities

Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store in the dark. Store away from water/moisture. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Protect from exposure to light.

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

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. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. 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: Safety glasses Body protection: Protective work clothing.

9 Physical and chemical properties

9 Physical and chemical properties	
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor threshold:	emical properties Powder White Not determined Not determined
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined. Not determined Not determined Not determined.
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Product does not present an explosion hazard. Not determined Not applicable. Not determined Not determined. Not determined. Not determined. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
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		(Contd. of page 2)
10 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not of	and it used and stared according to appeiling to	
Possibility of hazardous reactions No dangerous reactions known	occur il used and stored according to specifications.	
Conditions to avoid No further relevant information available. Incompatible materials:		
Water/moisture		
Light Hazardous decomposition products:		
Carbon monoxide and carbon dioxide		
Hydrogen bromide Nitrogen oxides		
Hydrogen chloride (HCl)		
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: Maý cause irritation Sensitization: No sensitizing effects known.		
Germ cell mutagenicity: No effects known.		
Carcinogenicity: No classification data on carcinogenic properties of this mate Reproductive toxicity: No effects known.	rial is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Specific target organ system toxicity - repeated exposure: No effects know	n.	
Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known.		
Subacute to chronic toxicity: No effects known.	and shows in the initial static sector sector and fully because	
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 governn Do not allow undiluted product or large quantities to reach ground water, water	nental permits. 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)		
DOT, ADR, IMDG, IATA Class	None	
Packing group 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 Cod		
Transport/Additional information: DOT	Not dangerous according to the above specifications.	
Marine Pollutant (DOT):	No	
15 Regulatory information		
Safety, health and environmental regulations/legislation specific for the su	ubstance or mixture	
GHS label elements Not applicable Hazard pictograms Not applicable		
Signal word Not applicable Hazard statements Not applicable		
National regulations		
This product is not listed in the U.S. Environmental Protection Agency Toxic Su to research and development only. This product must be used by or directly und	bstances Control Act Chemical Substance Inventory. Use of this pro	oduct is restricted
product must not be used for commercial purposes or in formulations for comm	ercial purposes.	. 507. 1113
SARA Section 313 (specific toxic chemical listings) Substance is not listed.		(Contd. on page 4)
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California Proposition 65

California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity 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. Information about limitation of use: For use only by technically qualified individuals. 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. 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. 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 combination with any other product or process, is the responsibility of the user. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -Abbreviations and acronyms: RD: Reglement 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: Thermational Civil Aviation Organization ICAO: Thermational Civil Aviation Organization ICAO: Thermational Martime Code for Dangerous Goods DOT: US Department of Transportation ICAO: Thermational Martime Code for Dangerous Goods DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (ICAn) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent USD: Lethal dose, 50 percent USD: VP Persistent and very Bicaccumulative ACGIH: American Colference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IATE: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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