



1 Identification	
Product identifier Product name: <b>2-Chloro-5-iodobenzoic acid</b>	
Stock number: L20161	
CAS Number: 19094-56-5	
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	
Energency 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)	
GHS07	
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.	
STOT SE 3 H335 May cause respiratory irritation. 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	
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GHS07	
Signal word Warning Hazard statements	
H315 Causes skin irritation. H319 Causes serious eye irritation.	
H335 May cause respiratory irritation. Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.	
P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
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	
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Classification system HMIS ratings (scale 0-4)	
(Hazardou's Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1	
REACTIVITY Physical Házard = 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: 19094-56-5 2-Chloro-5-iodobenzoic acid	
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.	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
(Contd. or	n page 2) USA —

## Product name: 2-Chloro-5-iodobenzoic acid (Contd. of page 1) 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 chloride (HCI) Hydrogen iodide (HI) 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: Ensure adequate ventilation. Prevention 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. Store in the dark Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. 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 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: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Color: White Odor: Odor threshold: Not determined Not determined Not applicable. pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 156-161 °C (313-322 °F) Not determined Not determined Flash point: Not applicable (Contd. on page 3)

## Product name: 2-Chloro-5-iodobenzoic acid

		viewed on 10/14/2008
Product name: 2-Chloro-5-iodobenz	zoic acid	
		(Contd. of page 2)
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined	
Decomposition temperature:	Not determined	
Auto igniting:	Not determined. Product does not present an explosion hazard	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not applicable.	
Density: Relative density	Not determined Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with		
Water: Partition coefficient (n-octanol/water)	Insoluble ): Not determined.	
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.	· · · · · · · · · · · · · · · · · · ·	
Chemical stability Stable under recoming Thermal decomposition / conditions to the terms of ter	to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions No	o dangerous reactions known	
Conditions to avoid No further relevant Incompatible materials:	t information available.	
Oxidizing agents Light		
Hazardous decomposition products:		
Carbon monoxide and carbon dioxide Hydrogen chloride (HCl)		
Hydrogen iodide (HI)		
11 Toxicological information		I
Information on toxicological effects		
Acute toxicity: No effects known. LD/LC50 values that are relevant for c	classification. No data	
Skin irritation or corrosion: Causes sk	skin irritation.	
Eye irritation or corrosion: Causes sea Sensitization: No sensitizing effects kno	nown.	
Germ cell mutagenicity: No effects kno	own. own. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know	wn.	
Specific target organ system toxicity	<ul> <li>repeated exposure: No effects known.</li> <li>single exposure: May cause respiratory irritation.</li> </ul>	
Aspiration hazard: No effects known		
Subacute to chronic toxicity: No effec 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 inf Persistence and degradability No furth	formation available.	
Bioaccumulative potential No further r	relevant information available.	
Mobility in soil No further relevant infor Additional ecological information:	rmation available.	
General notes:		
Avoid transfer into the environment.	the environment without proper governmental permits.	
Results of PBT and vPvB assessment PBT: Not applicable.	it	
vPvB: Not applicable. vPvB: Not applicable. Other adverse effects No further releva	· · · · · · · · · · · · · · · · · · ·	
	ant information available.	
13 Disposal considerations		
Waste treatment methods		
Uncleaned packagings:	or national regulations to ensure proper disposal.	
Recommendation: Disposal must be m	nade according to official regulations.	
<b>14 Transport information</b> Not a hazardous material for transportat		
Not a hazardous material for transportat UN-Number DOT, IMDG, IATA	tion. None	
UN proper shipping name DOT, IMDG, IATA		
DOT, IMDG, IATA Transport hazard class(es)	None	
DOT, ADR, IMDG, IATA		
Class	None	
Packing group DOT, IMDG, IATA	None	
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Environmental bazarda:	(Contd. of page)
Environmental hazards: Special precautions for user	Not applicable. Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 an	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT	
Marine Pollutant (DOT):	No
Description information	
Regulatory information Safety, health and environmental regulations/legislation spo GHS label elements The product is classified and labeled in ac Hazard pictograms	vecific for the substance or mixture ccordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P304+P340       IF INHALED: Remove person to fresh air and Store locked up.         P501       Dispose of contents/container in accordance         National regulations       This product is not listed in the U.S. Environmental Protection A to research and development only. This product must be used b product must not be used for commercial purposes or in formula SARA Section 313 (specific toxic chemical listings) Substan California Proposition 65         Prop 65 - Chemicals known to cause cancer Substance is not Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, male 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 Substance is not listed.         Substance of Very High Concern (SVHC) according to the R The conditions of restrictions according to Article 67 and A market and use must be observed.         Substance is not listed.         Annex XIV of the REACH Regulations (requiring Authorisati Chemical safety assessment: A Chemical Safety Assessment	everal minutes. Remove contact lenses, if present and easy to do. Continue rinsing. several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. and keep comfortable for breathing. e with local/regional/national/international regulations. Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrictly by or directly under the supervision of a technically qualified individual as defined by TSCA. This lations for commercial purposes. nce is not listed. sted. ed. ally qualified individuals. <b>REACH Regulations (EC) No. 1907/2006.</b> Substance is not listed. <b>REACH Regulations (EC) No. 1907/2006.</b> Substance is not listed. <b>Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on</b> <b>tion for use)</b> Substance is not listed.
information to ensure proper use and protect the health and safe	o other information gathered by them, and should make independent judgement of suitability of this fety of employees. This information is furnished without warranty, and any use of the product not a nation with any other product or process, is the responsibility of the user.
Data of proparation / last revision 11/01/0015	res par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ciation" (IATA) CAO)