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1 Identification
Product identifier
Product name: 4-Bromocinnamic acid, predominantly trans Stock number: L00900
CAS Number: 1200-07-3
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) GHS07
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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
GHS07
Signal word Warning Hazard statements H315 Causes skin irritation. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H335 May cause respiratory irritation. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P260 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) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1 REACTIVITY I Physical Hazard = 1
Other hazards Results of PBT and vPvB assessment
PBT: Not applicable. vPvB: Not applicable.
3 Composition/information on ingredients
Characterization: Substances CAS# Description:
1200-07-3 4-Bromocinnamic acid, predominantly trans
<i>4 First-aid measures</i> <i>Description of first aid measures</i> <i>After inhalation</i> <i>Supply fresh air. If required, provide artificial respiration. Keep patient warm.</i> <i>Seek inmediate medical advice.</i>
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 sur leving Societ medical tractment
After swallowing Seek medical treatment. (Contd. on page 2) USA

Product name: 4-Bromocinnamic acid, predominantly trans (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 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: 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 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. Eve protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Crystalline powder Color: White Odor: Odorless Odor threshold: Not determined. pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: 206-264 °C (403-507 °F) Not determined Sublimation temperature / start: Not determined Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not applicable Not determined Not determined Not determined Auto igniting: Not determined

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Product name: 4-Bromocinnamic acid, predominantly trans

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Demos of overlapions	Destructulation to a symbolian barand	(Contd. of page 2)	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.		
Lower: Upper:	Not determined Not determined		
Vapor pressure: Density:	Not applicable. Not determined		
Relative density	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 recommendations to Thermal decomposition / conditions to	nended storage 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 Incompatible materials: Oxidizing agen Hazardous decomposition products:	information available.		
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 c	lassification: No data		
Skin irritation or corrosion: Causes sk	(in irritation.		
Eye irritation or corrosion: Causes ser Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	10US EYE ITTITATION. JWN.		
Carcinogenicity: No classification data	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.		
Reproductive toxicity: No effects know	ín.		
Specific target organ system toxicity	 repeated exposure: No effects known. single exposure: May cause respiratory irritation. 		
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect			
Additional toxicological information:	is 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 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	t		
vPvB: Not applicable.			
Other adverse effects No further releva	Int information available.		
13 Disposal considerations			
Waste treatment methods			
Uncleaned packagings:	or national regulations to ensure proper disposal.		
Recommendation: Disposal must be ma	ade according to official regulations.		
14 Transport information			
Not a hazardous material for transportati UN-Number	on.		
DOT, ÎMDĞ, 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.		
	II of MARPOL73/78 and the IBC Code Not applicable.		
Transport/Additional information:	Not dangerous according to the above specifications.		
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DOT	
Marine Pollutant (DOT):	No
Regulatory information Safety, health and environmental regulation GHS label elements The product is classified Hazard pictograms	as/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)
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GHS07	
P305+P351+P338 IF IN EYES: Rinše cautious P304+P340 IF INHALED: Remove perso	gas/mist/vapours/spray. tective clothing/eye protection/face protection. ly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. on to fresh air and keep comfortable for breathing.
	ner in accordance with local/regional/national/international regulations.
to research and development only. This product product must not be used for commercial purp SARA Section 313 (specific toxic chemical California Proposition 65	
Prop 65 - Chemicals known to cause cancel Prop 65 - Developmental toxicity Substance Prop 65 - Developmental toxicity, female Sub Prop 65 - Developmental toxicity, male Subs Information about limitation of use: For use Other regulations, limitations and prohibitiv Substance of Very High Concern (SVHC) ac	is not listed. Ibstance is not listed. stance is not listed. only by technically qualified individuals. <i>re regulations</i> cording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.
The conditions of restrictions according to market and use must be observed.	Article 67 and Annex XVII of the Regulátion (EC) No 1907/2006 (REACH) for the manufacturing, placing on t
Substance is not listed. Annex XIV of the REACH Regulations (requ	iring Authorisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Sa	afety Assessment has not been carried out.
information to ensure proper use and protect th	a supplement to other information gathered by them, and should make independent judgement of suitability of this he health and safety of employees. This information is furnished without warranty, and any use of the product not eet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing E Date of preparation / last revision 11/23/201	
Abbreviations and acronyms: RID: Règlement international concernant le transport des mar IATA-DGR: Dangerous Goods Regulations by the "Internation	chandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) al Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Avia IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association	chandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) al Air Transport Association" (IATA) ation Organization" (ICAO)
DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Cl HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	iemical Society) (Canada)
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent vPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hyc OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	ienists (USA)