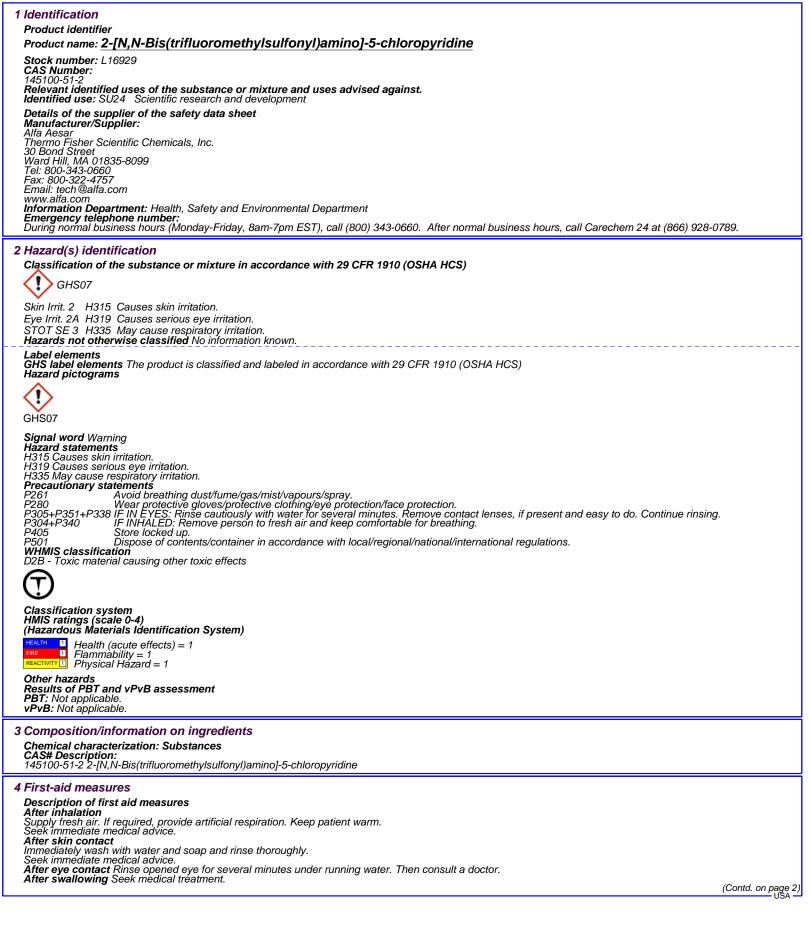


Safety Data Sheet per OSHA HazCom 2012



Product name: 2-[N,N-Bis(trifluoromethyIsulfonyI)amino]-5-chloropyridine

Information for doctor	(Contd. of page 1)
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 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:	
If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Hydrogen fluoride (HF) Nitrogen oxides (NOx)	
Sulfur oxides (SOx) 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 Handle under dry protective gas.	
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 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 humidity and water. 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 of suitable gloves not only depends on the material, but also on quality. Quality will vary norm manufacture to manufacture . 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 Comment Multitude	
Color: White Odor: Not determined	
Odor threshold: Not determined. pH-value: Not applicable.	
Change in condition	
Melting point/Melting range: 45-47 °C (113-117 °F)	(Contd on some 2)
	(Contd. on page 3) USA

Page 3/4 Printing date 11/24/2015 Reviewed on 08/22/2008

Product name: 2-[N,N-Bis(trifluoromethyIsulfonyI)amino]-5-chloropyridine

	euryisunonynjammoj-s-cinolopyname		
Boiling point/Boiling range:	Not determined	(Contd. of page 2)	
Sublimation temperature / start:	Not determined		
Flash point: Flammability (solid, gaseous)	Not applicable Not determined.		
Ignition temperature: Decomposition temperature:	Not determined		
Auto igniting:	Not determined Not determined.		
Danger of explosion:	Product does not present an explosion hazard.		
Explosion limits: Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not applicable.		
Density:	Not determined		
Relative density Vapor density	Not determined. Not applicable.		
Evaporation rate Solubility in / Miscibility with	Not applicable.		
Water:	Reacts		
Partition coefficient (n-octanol/water): Viscosity:			
dynamic: kinematic:	Not applicable. Not applicable.		
Other information	No further relevant information available.		
10 Stability and reactivity			
10 Stability and reactivity Reactivity No information known.			
Chemical stability Stable under recomm	nended storage conditions. o 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:	information available.		
Oxidizing agents Water/moisture			
Hazardous decomposition products:			
Carbon monoxide and carbon dioxide Hydrogen fluoride			
Nitrogen oxides Sulfur oxides (SOx)			
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: Causes skin irritation.			
Eve irritation or corrosion: Causes ser	ious eve irritation.		
Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	wn. wn.		
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known.			
Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - 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 info	prmation available.		
Persistence and degradability No further re Bioaccumulative potential No further re Mobility in soil No further relevant infor	elevant information available.		
Mobility in soil No further relevant inform Additional ecological information:	mation available.		
General notes:	he any irranment without proper governmental permits		
Do not allow undiluted product or large q	he environment without proper governmental permits. Juantities 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 releva	nt information available.		
13 Disposal considerations			
Waste treatment methods			
Recommendation Consult state, local o Uncleaned packagings:	r 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	on.		
UN-Number DOT, IMDG, IATA	None		
UN proper shipping name DOT, IMDG, IATA	None		
	NOIC	(Contd. on page 4)	
		USA -	

Product name: 2-[N,N-Bis(trifluoromethylsulfonyl)amino]-5-chloropyridine

		(Contd. of page 3)		
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 Code Not applicable.				
Transport/Additional information:	Not dangerous according to the above specifications.			
DOT Marine Pollutant (DOT):	No			
15 Regulatory information				
Safety, health and environmental regulations/legislati	on 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



Signal word Warning

Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. 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 P501 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. National 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 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. 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. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to the REACH Regulations (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: RID: 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: Thernational Civil Aviation Organization ICAO: Thernational Civil Aviation Organization ICAO: Thernational Civil Aviation Organization ICAO: Thernational Martime Code for Dangerous Goods by DOT: US Department of Transportation ICAO: Thernational Martime Code for Dangerous Goods DOT: US Department of Transportation ICAO: Thernational Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (ICAO) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent VPUB very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) IATE: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA