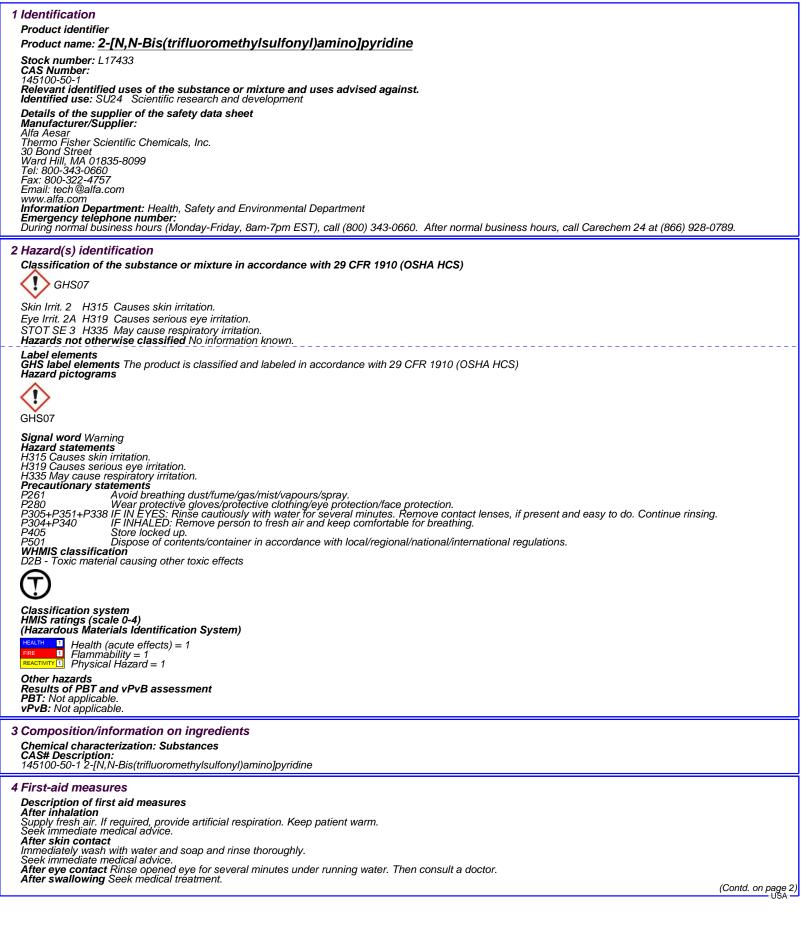


Safety Data Sheet per OSHA HazCom 2012



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

(Contd. of page 1)

(Contd. on page 3)

Information for doctor Most important symptoms and effects Indication of any immediate medical a	both acute and delayed No further relevant information available. tention and special treatment needed No further relevant information available.
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents CO2, sa Special hazards arising from the subs If this product is involved in a fire, the for Carbon monoxide and carbon dioxide Hydrogen fluoride (HF) Sulfur oxides (SOx) Nitrogen oxides (NOx) Hydrogen cyanide (HCN) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	nd, extinguishing powder. Do not use water. ance or mixture wing can be released:
	cted persons away. The environment without proper governmental permits. and cleaning up: Ensure adequate ventilation. pecial measures required. dling
7 Handling and storage Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. Ensure good ventilation at the workplace Information about protection against Conditions for safe storage, including Storage Requirements to be met by storeroom Information about storage in one com Store away from oxidizing agents. Protect from heat. Store away from oxidizing agents. Further information about storage con Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Protect from humidity and water. Refrigerate Specific end use(s) No further relevant	and receptacles: Refrigerate non storage facility: ditions:
Control parameters Components with limit values that red Additional information: No data Exposure controls Personal protective equipment General protective and hygienic meas The usual precautionary measures for h Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo Wash hands before breaks and at the er Avoid contact with the eyes and skin. Maintain an ergonomically appropriate w Breathing equipment: Use suitable res Protection of hands: Impervious gloves	technical systems: esigned for hazardous chemicals and having an average face velocity of at least 100 feet per minute. tire monitoring at the workplace: Not required. If the monitoring at the workplace: Not required. If the monitoring at the workplace is not required. If the monitor of
9 Physical and chemical properties Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor threshold:	nical properties Solid White Not determined Not determined.
pH-value:	Not applicable.

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

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		(Contd. of page 2)	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	37-41 °C (99-106 °F) 97 °C (207 °F) (2 mmHg) Not determined		
Flash point:	> 110 °C (> 230 °F)		
Flammability (solid, gaseous)	Not determined.		
Ignition temperature: Decomposition temperature:	Not determined Not determined		
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.		
Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not applicable.		
Density:	Not determined		
Relative density Vapor density	Not determined. Not applicable.		
Evaporation rate	Not applicable.		
Solubility in / Miscibility with Water:	Hydrolyzes		
Partition coefficient (n-octanol/water).	: 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 recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agents Heat Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Sulfur oxides (SOx) Nitrogen oxides Hydrogen cyanide	o be avoided: Decomposition will not occur if used and stored according to specifications. dangerous reactions known		
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. Eye irritation or corrosion: Causes skin irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Carcinogenicity: 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. 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 inf Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to t	elevant information available. mation available. he environment without proper governmental permits. quantities to reach ground water, water course or sewage system. t		
13 Disposal considerations			
Waste treatment methods			
Recommendation Consult state, local of	or national regulations to ensure proper disposal.		
Uncleaned packagings: Recommendation: Disposal must be m	ade according to official regulations.		
14 Transport information Not a hazardous material for transportat			
UN-Number			
DOT, IMDG, IATA	None	(Control and and a state of the	
		(Contd. on page 4)	

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

		(Contd. of page 3)	
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 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/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



Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation H335 May cause respiratory irritation. Precautionary statements P261 P280 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 Store locked up. P501 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 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. 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 Propostion 65 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. 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 liste 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: 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: Thermational Civil Aviation Organization
ICAO: Thermational Civil Aviation Organization
ICAO: Thermational Civil Aviation Organization
ICAO: Thermational Air 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" (ICAO)
IATA-DGR: Dangerous Goods Regulations by the "International Civil Aviation Organization" (ICAO)
IMDG: International Air Transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Equilation
ICAO: Thermational Air Transport Association
ICAO: Thermational Air Transport Association
ICAO: Thermational Air Transport Association
ICAO: US Department of Transportation
ICAO: US Department of Transportation
ICAO: US Department of Transportation
ICAO: Lethal concentration, 50 percent
Losi: Lethal concentration, 50 percent
VPWB: very Persistent and very Bioaccumulative
ACGIH: American Chernetal Industrial Hygienists (USA)
OSHA: Occupational Zafety and Health Administration (USA)
ITP: National Toxicology Program (USA)
IATE: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA) USA