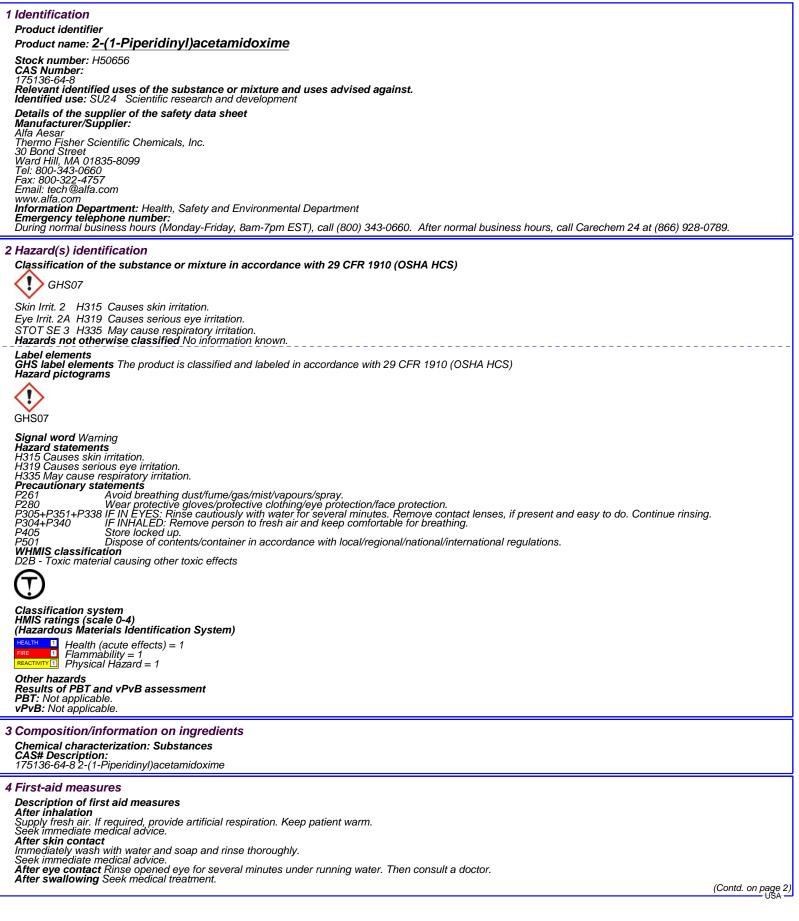


Safety Data Sheet per OSHA HazCom 2012



## Product name: 2-(1-Piperidinyl)acetamidoxime (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 Nitrogen oxides (NOx) 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. **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: Solid Odor: Not determined Odor threshold: Not determined. pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: Not determined 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 (Contd. on page 3)

## Product name: 2-(1-Piperidinyl)acetamidoxime

Page 3/4 Printing date 11/24/2015 Reviewed on 12/10/2008

Information on toxicological effects Acute toxicity: No effects known. LDLC50 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. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: 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.  2 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Mobility in soil No further relevant information available. Do not allow undiluded product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. PET: Not applicable. PF: Not applicable.			(Contd. of page
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Various Prossure:         Mail a politable.           Various Generative Mail Control Contro	Lower:	Not determined	
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Perting coefficient (n-octanol/water): Not determined: Varappin: Varappin: Version:	Solubility in / Miscibility with		
Viscosity:         Not applicable           Other Information         Not further relevant information available.           0 Stability and reactivity           Resettivity Notify Station information information available.           0 Stability and reactivity           Resettivity Notify Station information information available.           Possibility of Information Information available.           Possibility of Information Information available.           Information Discloogical Information available.           Information Discloogical effects           Acting To Conditions Control Conditions.           Provision Discloogical effects           Acting To Conditions Control Conditions.           Particle Conditions Control Conditions.           Particle Conditions Control Conditions.           Particle Conditions.           Conditions Control Conditions.           Particle Conditions.           Conditions Conditions.           Reservership Conditions.           Particle Conditions.           Particle Conditions.           Conditions Conditions.           Particle Conditions.           Particle Conditions.           Particle Conditions.           Particle Conditions.           Particle Conditions.           Particle Conditions.			
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Not a hazardous material for transportation.         UN-Number       None         DOT, IMDG, IATA       None         UN proper shipping name       None         DOT, IMDG, IATA       None         Transport hazard class(es)       None         DOT, ADR, IMDG, IATA       None         Packing group       None         DOT, IMDG, IATA       None         Packing group       None         DOT, IMDG, IATA       None         Packing group       None         Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.         Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable.       Not applicable.	4 Transport information		
DOT, IMDG, IATA       None         UN proper shipping name DOT, IMDG, IATA       None         Transport hazard class(es)       None         DOT, ADR, IMDG, IATA       None         Packing group DOT, IMDG, IATA       None         Packing group DOT, IMDG, IATA       None         Special precautions for user       Not applicable.         Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable.       Not applicable.	Not a hazardous material for transportati	on.	
Transport hazard class(es)         DOT, ADR, IMDG, IATA         Class       None         Packing group       None         DOT, IMDG, IATA       None         Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.         Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable.	DOT, IMDG, IATA	None	
DOT, ADR, IMDG, IATA       None         Class       None         Packing group       None         DOT, IMDG, IATA       None         Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.         Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable.	, ,	None	
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.	ransport nazard class(es)		
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.	,		
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.	DOT, ADR, 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.	DOT, ADR, IMDG, IATA Class	None	
Special precautions for user         Not applicable.           Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	DOT, ADR, IMDG, IATA Class		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	DOT, ADR, IMDG, IATA Class Packing group DOT, IMDG, IATA	None	
	DOT, ADR, IMDG, IATA Class Packing group DOT, IMDG, IATA Environmental hazards:	None Not applicable.	
	DOT, ADR, IMDG, IATA Class Packing group DOT, IMDG, IATA Environmental hazards: Special precautions for user	None Not applicable. Not applicable.	

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DOT	
Marine Pollutant (DOT):	No
Regulatory information	
Safety, health and environmental regulation	ns/legislation specific for the substance or mixture I and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P305+P351+P338 IF IN EYES: Rinse cautious P304+P340 IF INHALED: Remove pers P405 Store locked up. P501 Dispose of contents/contair	/gas/mist/vapours/spray. itective clothing/eye protection/face protection. sly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. son to fresh air and keep comfortable for breathing. iner in accordance with local/regional/national/international regulations.
National regulations ' This product is not listed in the U.S. Environme to research and development only. This produc product must not be used for commercial purp SARA Section 313 (specific toxic chemical California Proposition 65 Prop 65 - Chemicals known to cause cance Prop 65 - Developmental toxicity Substance Prop 65 - Developmental toxicity, female Sub Prop 65 - Developmental toxicity, male Sub Information about limitation of use: For use Other regulations, limitations and prohibitiv Substance of Very High Concern (SVHC) ac	ental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restri ict must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This poses or in formulations for commercial purposes. <b>listings</b> ) Substance is not listed. <b>er</b> Substance is not listed. b is not listed. ubstance is not listed.
market and use must be observed. Substance is not listed.	<i>iring Authorisation for use)</i> Substance is not listed. afety Assessment has not been carried out.
<b>Other information</b> Employers should use this information only as information to ensure proper use and protect ti conformance with this Material Safety Data Sh	s a supplement to other information gathered by them, and should make independent judgement of suitability of this the health and safety of employees. This information is furnished without warranty, and any use of the product not reet, or in combination with any other product or process, is the responsibility of the user.
<b>Department issuing SDS:</b> Global Marketing L Date of preparation / last revision 11/24/201	Department 15 / -
RD: Règlement international concernant le transport des mai ATA-DGR: Dangerous Goods Regulations by the "Internation CAO: International Civil Aviation Organization 'CAO-TI: Technical Instructions by the "International Civil Avia MDG: International Maritime Code for Dangerous Goods	rchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) nal Air Transport Association" (IATA) iation Organization" (ICAO)
CAO: International Civil Aviation Organization (CAO-TI: Technical Instructions by the "International Civil Avia MDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation ATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American CI HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (CSO: Lethal concentration, 50 percent DSO: Lethal concentration, 50 percent	hemical Society) I (Canada)
LDS0: Lethal dose, 50 percent for a second provident of the second secon	