



	wed on 06/15/2010
1 Identification	
Product identifier	
Product name: 4-Acetamidopiperidine	
Stock number: H50981	
CAS Number: 5810-56-0	
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(a) identification	
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	
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	
$\wedge$	
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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsir P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsir	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsin P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	ng.
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	
Classification system HMIS ratings (scale 0-4)	
(Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1	
REACTIVITY Physical Hazard = 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:	
CAS# Description: 5810-56-0 4-Acetamidopiperidine	
4 First-aid measures	
Description of first aid measures	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
Seek îmmediate 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. on page 2)
	USA USA

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Product name: 4-Acetamidopiperidi	ne		
Information for doctor		(Contd. of page 1)	
Most important symptoms and effect Indication of any immediate medical	s, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available.		
5 Fire-fighting measures			
Extinguishing media			
Special hazards arising from the sub	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture		
If this product is involved in a fire, the to Carbon monoxide and carbon dioxide	Illowing can be released:		
Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN)			
Advice for firefighters Protective equipment:			
Wear self-contained respirator. Wear fully protective impervious suit.			
6 Accidental release measures			
Personal precautions, protective equ	ipment and emergency procedures		
Wear protective equipment. Keep unpro			
Methods and material for containment	llow material to be released to the environment without proper governmental permits. It and cleaning up: Ensure adequate ventilation.		
Prevention of secondary hazards: No Reference to other sections			
See Section 7 for information on safe has See Section 8 for information on person	nal protection equipment.		
See Section 13 for disposal information.			
7 Handling and storage			
Handling Precautions for safe handling Koop container tightly seeled			
Keep container tightly sealed. Store in cool, dry place in tightly closed Ensure good ventilation at the workplac	containers.		
Information about protection against	explosions and fires: No information known.		
Conditions for safe storage, including Storage	g any incompatibilities		
Information about storage in one con	ns and receptacles: No special requirements. nmon storage facility: Store away from oxidizing agents.		
Further information about storage co	onditions:		
Store in cool, dry conditions in well seal Specific end use(s) No further relevant	led containers. t information available.		
8 Exposure controls/personal prot	ection		
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 mea	sures		
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 preaks and at the end of work.			
Avoid contact with the eyes and skin. Maintain an ergonomically appropriate v	working environment. spirator when high concentrations are present.		
Protection of hands:	spirator when high concentrations are present.		
Impervious gloves Check protective gloves prior to each us	se for their proper condition. y depends on the material, but also on quality.  Quality will vary from manufacturer to manufacturer.		
Penetration time of glove material (in Eye protection: Safety glasses	minutes) Not determined		
Body protection: Protective work cloth	ing.		
9 Physical and chemical properties	\$		
Information on basic physical and ch General Information	nemical properties	1	
Appearance: Form:	Powder		
Color: Odor:	White Not determined		
Odor threshold:	Not determined.		
pH-value: Change in condition	Not applicable.		
Melting point/Melting range: Boiling point/Boiling range:	141 °C (286 °F) Not determined		
Sublimation temperature / start:	Not determined		
Flash point: Flammability (solid, gaseous)	Not applicable Not determined		
Ignition temperature: Decomposition temperature:	Not determined Not determined		
		(Contd. on page 3)	

## Product name: 4-Acetamidonineridine

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		viewed on 06/15/2010
Product name: 4-Acetamidopiperid	,ine	]
Avida lauriding.	A for the remain and	(Contd. of page 2)
Auto igniting: Danger of explosion:	Not determined. Product does not present an explosion hazard.	
Explosion limits:		
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	Not determined er): Not determined.	
Viscosity: dynamic:		
kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known	· · · · · · · · · · · · · · · · · · ·	
Chemical stability Stable under recom Thermal decomposition / conditions	mmended storage conditions. <b>s to be avoided:</b> Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions N	No dangerous reactions known	
Conditions to avoid No further relevant Incompatible materials: Oxidizing age	aents	
Hazardous decomposition products: Carbon monoxide and carbon dioxide		
Nitroaen oxides		
Possibly Hydrogen cyanide (HCN)		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known. LD/LC50 values that are relevant for	r classification: No data	
Skin irritation or corrosion: Causes s Eye irritation or corrosion: Causes se	skin irritation.	
Sensitization: No sensitizing effects kr	known	
Germ cell mutagenicity: No effects ki	nown. nown. ta on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
<b>Reproductive toxicity:</b> No effects know	own.	,
Specific target organ system toxicity Specific target organ system toxicity	ty - repeated exposure: No effects known. ty - single exposure: May cause respiratory irritation.	1
Aspiration hazard: No effects known.		1
Subacute to chronic toxicity: No effective Additional toxicological information:	ects known. 1: 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 in Persistence and degradability No fun	In the relevant information available.	
<b>Bioaccumulative potential</b> No further	r relevant information available.	
Mobility in soil No further relevant info Additional ecological information:	srmation available.	
General notes:	and the second se	
Do not allow material to be released to Do not allow undiluted product or large	o the environment without proper governmental permits. e quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment. Results of PBT and vPvB assessmer		
<b>PBT:</b> Not applicable.	At	
vPvB: Not applicable. Other adverse effects No further relevant	vant information available.	
13 Disposal considerations		
Waste treatment methods		
Recommendation Consult state, local	al or national regulations to ensure proper disposal.	
Uncleaned packagings: Recommendation: Disposal must be n		
14 Transport information		
Not a hazardous material for transporta	ation.	
UN-Number DOT, IMDG, 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 Environmental hazards:	None Not applicable	
Environmental hazards: Special precautions for user	Not applicable. Not applicable.	
	ex II of MARPOL73/78 and the IBC Code Not applicable.	
		(Contd. on page 4

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D. J. J. A a standardardina	
Product name: 4-Acetamidopiperidine	
	(Contd. of page 3)
Transport/Additional information: DOT	Not dangerous according to the above specifications.
Marine Pollutant (DOT):	No
45 Desulatory information	
15 Regulatory information Safety, health and environmental regulations/legisla GHS label elements The product is classified and labe Hazard pictograms	ation specific for the substance or mixture eled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P305+P351+P338 IF IN EYES: Rinše cautiously with w         P304+P340       IF INHALED: Remove person to free         P405       Store locked up.         P501       Dispose of contents/container in acc         National regulations       This product is not listed in the U.S. Environmental Proto to research and development only. This product must be product must not be used for commercial purposes or is         SARA Section 313 (specific toxic chemical listings)         California Proposition 65         Prop 65 - Developmental toxicity, Substance is not lis         Prop 65 - Developmental toxicity, male Substance is Information about limitation of use: For use only by it Other regulations, limitations and prohibitive regulations	<ul> <li>clothing/eye protection/face protection.</li> <li>water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>esh air and keep comfortable for breathing.</li> <li>ccordance with local/regional/national/international regulations.</li> <li>otection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This in formulations for commercial purposes.</li> <li>c) Substance is not listed.</li> <li>ance is not listed.</li> <li>is ted.</li> <li>is tot listed.</li> <li>g is not listed.</li> <li>g to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.</li> <li>67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the uthorisation for use) Substance is not listed.</li> </ul>
conformance with this Material Safety Data Sheet, or in	lement to other information gathered by them, and should make independent judgement of suitability of this th and safety of employees. This information is furnished without warranty, and any use of the product not in 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 11/23/2015 / -           Abbreviations and acronyms:           RID: Reglement international concernant le transport des marchandises of IATA-DGR: Dangerous Goods Regulations by the "International Air Trans ICAO: International Civil Aviation Organization ICAO: Ti: Technical Instructions by the "International Civil Aviation Organi IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Soc HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (US OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA)           NTP: National Toxicology Program (USA)           IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	s dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) nsport Association" (IATA) nization" (ICAO) ociety)

IARC: International Agency for Research on Ca EPA: Environmental Protection Agency (USA)