

SAFETY DATA SHEET

Creation Date 04-Nov-2010

Revision Date 19-Jan-2018

Revision Number 4

1. Identification

3-Hydroxypiperidine hydrochloride

Product Name

AC174320000; AC174320050; AC174320250; AC174321000

Cat No. :

CAS-No Synonyms 64051-79-2 3-Piperidinol hydrochloride

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/sprav

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients CAS-No Weight % Component 3-Hydroxypiperidine hydrochloride 64051-79-2 >95 4. First-aid measures Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get Eye Contact medical attention. Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Get medical attention if symptoms occur. Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur. Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur. No information available. Most important symptoms and effects Notes to Physician Treat symptomatically 5. Fire-fighting measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO2) Nitrogen oxides (NOx) Hydrogen chloride gas

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA Health 2	Flammability 1	Instability 1	Physical hazards N/A				
	6. Accidental rel	ease measures					
Personal Precautions Environmental Precautions	Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation Should not be released into the environment. See Section 12 for additional ecological information.						
Methods for Containment and Clea Up	an Sweep up or vacuum up sp formation.	illage and collect in suitable co	ntainer for disposal. Avoid dust				
	7. Handling a	and storage					
Handling		quipment. Ensure adequate ver ngestion and inhalation. Avoid	ntilation. Do not get in eyes, on dust formation.				
Storage	Keep containers tightly clos To maintain product quality	ed in a dry, cool and well-venti . Protect from moisture.	lated place.				
8. E	xposure controls /	personal protectio	on				
Exposure Guidelines		ain any hazardous materials wit ion specific regulatory bodies.	th occupational exposure				
Engineering Measures	•	ns and safety showers are clos n, especially in confined areas.	e to the workstation location.				
Personal Protective Equipment							
Eye/face Protection		e eyeglasses or chemical safety ction regulations in 29 CFR 19					
Skin and body protection	Wear appropriate protective	e gloves and clothing to preven	t skin exposure.				

Respiratory Protection Hygiene Measures	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Handle in accordance with good industrial hygiene and safety practice.					
9.	Physical and chemical properties					
Physical State	Solid					
Appearance	White					
Odor	No information available					
Odor Threshold	No information available					
рН	No information available					
Melting Point/Range	196.6 - 198.7 °C / 385.9 - 389.7 °F					
Boiling Point/Range	No information available					
Flash Point	No information available					
Evaporation Rate	Not applicable					
Flammability (solid,gas)	No information available					
Flammability or explosive limits						
Upper	No data available					
Lower	No data available					
Vapor Pressure	No information available					
Vapor Density	Not applicable					
Specific Gravity	No information available					
Solubility	No information available					
Partition coefficient; n-octanol/water	r No data available					
Autoignition Temperature						
Decomposition Temperature	No information available					
Viscosity	Not applicable					
Molecular Formula	C5 H12 CI N O					
Molecular Weight	137.61					
	10. Stability and reactivity					
Reactive Hazard	None known, based on information available					

Stability Stable under recommended storage cond	itions. Hygroscopic.
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Incompatible Materials Strong oxidizing agents, Strong acids, Strong bases

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NOx), Hydrogen chloride gas

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information	No acute toxicity information is available for this product				
Component Information	No information available				
Toxicologically Synergistic Products	No mormation available				
Delayed and immediate effects as well as chronic effects from short and long-term exposure					
Irritation	No information available				

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico			
3-Hydroxypiperidine hydrochloride	64051-79-2	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects Reproductive Effects		No information available							
		No information available.							
Developmental Effec	ts	No information available.							
eratogenicity		No information ava	ailable.						
STOT - single exposureRespiratory systemSTOT - repeated exposureNone known									
Aspiration hazard		No information available							
Symptoms / effects, lelayed	both acute and	nd No information available							
Endocrine Disruptor	Information	No information available							
Other Adverse Effect	s	The toxicological properties have not been fully investigated.							
		12. Ecolo	ogical infor	mation					
<u>Ecotoxicity</u> Do not empty into drai	ns.								
Persistence and Deg	radability	No information available							
Bioaccumulation/ Ac	cumulation	No information available.							
Mobility		No information available.							
		13. Dispo	sal conside	erations					
Naste Disposal Meth	ods	Chemical waste ge	enerators must de	ermine whether a	discarded chemica	l is classified a			

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information		
DOT	Not regulated	
DOT TDG IATA	Not regulated	
IATA	Not regulated	
IMDG/IMO	Not regulated	
	15. Regulatory information	

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
3-Hydroxypiperidine	-	-	-	264-644-6	-		-	-	-	-	Х
hydrochloride											
Legend:											

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable				
SARA 313	Not applicable				
SARA 311/312 Hazard Categories	See section 2 for more information				
CWA (Clean Water Act)	Not applicable				
Clean Air Act	Not applicable				
OSHA Occupational Safety and Healt Not applicable	th Administration				
CERCLA	Not applicable				
California Proposition 65	This product does not contain any Proposition 65 chemicals				
U.S. State Right-to-Know Regulations	Not applicable				
U.S. Department of Transportation					
Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N				
U.S. Department of Homeland Secu This product does not contain any DH					
Other International Regulations					
Mexico - Grade	No information available				
16. Other information					
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com				
Creation Date Revision Date Print Date Revision Summary	04-Nov-2010 19-Jan-2018 19-Jan-2018 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).				
Disclaimer					

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS