

SAFETY DATA SHEET

Creation Date 15-Dec-2011

Revision Date 18-Jan-2018

Revision Number 3

1. Identification

Product Name

1-Cyclohexylpiperazine

Cat No. :

AC134300000; AC134300050; AC134300250

Synonyms

No information available

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 1 Category 1 Category 3

Label Elements

Signal Word Danger

Hazard Statements

Causes severe skin burns and eye damage May cause respiratory irritation



Precautionary Statements

Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

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

Use only outdoors or in a well-ventilated area

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage

Store locked up

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

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS-No	Weight %		
1-Cyclohexylpiperazine	Э	17766-28-8	>95		
	4.	First-aid measures			
Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention immediately if irritation persists.				
Skin Contact	Consult a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.				
Inhalation	Move to fresh air. Call a physician or Poison Control Center immediately.				
Ingestion	Immediate medical attention is required. Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.				
Most important symptoms and effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation				
Notes to Physician	Treat symptomatically				
	5. Fi	re-fighting measures			
Suitable Extinguishing Media	CO 2, dry che	mical, dry sand, alcohol-resistant foam.			
Unsuitable Extinguishing Media	No information available				
Flash Point Method -	No information No inf				

Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes.

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors

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	Flammability	Instability	Physical hazards
3	1	0	N/A
	6. Accidental re	lease measures	
Personal Precautions	Evacuate personnel to saf skin, eyes and clothing.	e areas. Use personal protective	e equipment. Avoid contact with
Refer to protective measures listed in Environmental Precautions	Sections 7 and 8 Do not allow material to co	ontaminate ground water system 12 for additional ecological info	. Should not be released into the mation.
Methods for Containment and Clea Up	an Sweep up or vacuum up s formation.	pillage and collect in suitable co	ntainer for disposal. Avoid dust
	7. Handling	and storage	
Handling	Use only under a chemica dust. Do not get in eyes, o	l fume hood. Wear personal pro n skin, or on clothing. Do not ing	tective equipment. Do not breathe gest.
Storage	Keep containers tightly clo Store under an inert atmos	sed in a dry, cool and well-venti sphere.	lated place. Corrosives area.
8. E	xposure controls	/ personal protection	on
Exposure Guidelines		tain any hazardous materials wi gion specific regulatory bodies.	th occupational exposure
Engineering Measures		on, especially in confined areas. By showers are close to the wor	Ventilation systems. Ensure that kstation location.
Personal Protective Equipment			
Eye/face Protection		ve eyeglasses or chemical safet ection regulations in 29 CFR 19	
Skin and body protection	Wear appropriate protectiv	ve gloves and clothing to preven	t skin exposure.
Respiratory Protection		European Standard EN 149 app ressure mode with emergency e	

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Physical State	Low melting solid
Appearance	Dark yellow
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	28 - 32 °C / 82.4 - 89.6 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
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	5.8
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C10 H20 N2
Molecular Weight	168.28

10. Stability and reactivity

Reactive Hazard	None known, based on information available				
Stability	Sensitive to air.				
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to air.				
Incompatible Materials	Strong oxidizing agents				
Hazardous Decomposition Pr	lucts Thermal decomposition can lead to release of irritating gases and vapors				
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 Toxicologically Synergistic	No information available	No information available			
Products Delayed and immediate effect	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 carcin	iogen.			
Component CAS-	IARC NTP ACGIH OSHA Mexic	со			

1-Cyclohexylpiperazin	17766-28-8	Not listed	Not listed	Not listed	Not listed	Not listed	
e	11100 20 0					Not notod	
Mutagenic Effects		No information ava	ailable				
Reproductive Effect	S	No information ava	ailable.				
Developmental Effect	cts	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single expos STOT - repeated exp		Respiratory systen None known	n				
Aspiration hazard		No information ava	ailable				
Symptoms / effects delayed	both acute and,	nd Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion caus severe swelling, severe damage to the delicate tissue and danger of perforation				estion causes	
Endocrine Disruptor	^r Information	No information ava	ailable				
Other Adverse Effects		The toxicological properties have not been fully investigated.					
		12. Ecolo	ogical infor	mation			
Ecotoxicity Do not empty into dra	ins.						
Persistence and Dec	gradability	No information ava	ailable				
Bioaccumulation/ A	Accumulation No information available.						
Mobility		No information available.					
		13. Dispo	sal conside	erations			
Waste Disposal Met	ste Disposal MethodsChemical waste generators must determine whether a discarded chemical is classified hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			gional, and			

	14. Transport information
DOT	Not regulated
Proper technical name	1-Cyclohexylpiperazine
TDG	Not regulated
IATA	
UN-No	UN3259
Proper Shipping Name	Amines or polyamines, solid, corrosive, n.o.s
Hazard Class	8
Packing Group	III
IMDG/IMO	
UN-No	UN3259
Proper Shipping Name	Amines or polyamines, solid, corrosive, n.o.s
Hazard Class	8
Packing Group	III
	15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
1-Cyclohexylpiperazine	-	-	-	241-750-0	-		-	-	-	-	-

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 Health Not applicable	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):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

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	15-Dec-2011 18-Jan-2018 18-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