

Date of issue: 06/05/2015 Version: 1.0

SECTION 1: Identificatio	n
1.1. Identification	
Product form	: Substance
Substance name	: Cyclohexanecarboxylic acid
CAS-No.	: 98-89-5
Product code	: (US) W0315
Formula	: C7H12O2
Synonyms	: Carboxycyclohexane / Cyclohexanoic acid / Cyclohexylcarboxylic acid / Hexahydrobenzoic acid
1.2. Recommended use an No additional information available	nd restrictions on use
1.3. Supplier Synerzine 5340 Hwy 42 S Ellenwood, Georgia 30294 - USA T 404-524-6744 - F 404-577-1651 info@synerzine.com - www.synerzine.com - www.synerzine.com	ie.com
1.4. Emergency telephone	
Emergency number	: Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US
SECTION 2: Hazard(s) ide	entification
2.1. Classification of the	substance or mixture
GHS-US classification	
Skin corrosion/irritation H31	5 Causes skin irritation
Category 2	
Serious eye damage/eye H31 irritation Category 1	8 Causes serious eye damage
Specific target organ toxicity H33 (single exposure) Category 3	5 May cause respiratory irritation
Full text of H statements : see section	n 16
2.2. GHS Label elements,	including precautionary statements
GHS-US labeling	
Hazard pictograms (GHS-US)	
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H315 - Causes skin irritation H318 - Causes serious eye damage H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P261 - Avoid breathing fume, gas, mist, spray, vapors. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear eye protection, face protection, protective clothing, protective gloves. P302+P352 - If on skin: Wash with plenty of water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a doctor, a POISON CENTER P312 - Call a doctor, a POISON CENTER if you feel unwell P321 - Specific treatment (see first aid measures on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.

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P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards which do not r	esult in classification			
o additional information available				
4. Unknown acute toxicity (GHS	US)			
Not applicable				
SECTION 3: Composition/Inform	ation on ingredients			
3.1. Substances				
Name		Product identifier	%	GHS-US classification
Cyclohexanecarboxylic acid (Main constituent)		(CAS-No.) 98-89-5	98 - 100	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Full text of hazard classes and H-statements : so	ee section 16			
3.2. Mixtures				
Not applicable				
SECTION 4: First-aid measures				
4.1. Description of first aid measu	Ires			
First-aid measures general	: Call a poison center/doctor/r	hysician if you feel upw	rell.	
First-aid measures after inhalation	 Remove person to fresh air ai center/doctor/physician if yo 	nd keep comfortable for		all a poison
First-aid measures after skin contact	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get		
First-aid measures after eye contact		 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. 		
First-aid measures after ingestion	: Call a poison center/doctor/p	ohysician if you feel unw	rell.	
I.2. Most important symptoms an	d effects (acute and delayed)			
Symptoms/effects after inhalation				
Symptoms/effects after skin contact	: Irritation.			
Symptoms/effects after eye contact	ye contact : Serious damage to eyes.			
4.3. Immediate medical attention	and special treatment, if nec	essary		
Гreat symptomatically.				
SECTION 5: Fire-fighting measu	res			
5.1. Suitable (and unsuitable) ext	inguishing media			
Guitable extinguishing media	: Water spray. Dry powder. Foa	am. Carbon dioxide.		
5.2. Specific hazards arising from	the chemical			
Reactivity	: The product is non-reactive u	nder normal conditions	of use, stora	ige and transport.
5.3 Special protective equipment	*		,	5 I
5.3. Special protective equipment and precautions for fire-fighters Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		ent. Self-contained breathing		
SECTION 6: Accidental release r	neasures			
6.1. Personal precautions, protect	ive equipment and emergenc	y procedures		
6.1.1. For non-emergency personnel				
Emergency procedures	: Ventilate spillage area. Avoid eyes.	breathing fume, gas, mi	st, spray, vaŗ	oors. Avoid contact with skin and
6.1.2. For emergency responders Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer				
Protective equipment	to section 8: "Exposure contro			ent. For further information refer
6.2. Environmental precautions				
Avoid release to the environment.				

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6.3. Methods and material for	r containment and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other section	ons and the second s
For further information refer to section 13	
SECTION 7: Handling and sto	
7.1. Precautions for safe hand	
Precautions for safe handling	: Use only outdoors or in a well-ventilated area. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe stora	ge, including any incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
SECTION 8: Exposure contro	Is/nersonal protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering Appropriate engineering controls	controls : Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection mea	asures/Personal protective equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of insufficient ventilation, wear sui	itable respiratory equipment
SECTION 9: Physical and che	mical properties
	sical and chemical properties
Physical state	: Liquid
Annearance	· A water-white to slightly amber liquid

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Appearance	: A water-white to slightly amber liquid.
Color	: water-white to slightly amber
Odor	: Fruity Slightly acidic Metallic cheesy aroma
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: 30 - 32 °C
Boiling point	: 232 - 233 °C
Flash point	: 230 °F closed cup
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available

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Relative density	: No data available
Specific gravity / density	: 1.03 - 1.04 g/ml
Molecular mass	: 128.17 g/mol
Solubility	: insoluble in water. soluble in fats. Water: 2.01 g/l (at 15 °C)
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity		
10.1.	Reactivity	
The product is non-reactive under normal conditions of use, storage and transport.		
10.2.	Chemical stability	
Stable under normal conditions.		
10.3.	Possibility of hazardous reactions	
No dangerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid	

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects Acute toxicity : N

: Not classified

Cyclohexanecarboxylic acid (98-89-5)	
LD50 oral rat	3265 mg/kg
ATE US (oral)	3265 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.

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SECTION 12: Ecological information	tion
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. Persistence and degradability	1
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
No additional information available	
SECTION 13: Disposal considera	tions
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport informat	tion
Department of Transportation (DOT)	
In accordance with DOT	
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport by sea	
- · ·	
Air transport	

SECTION 15: Regulatory information	
15.1. US Federal regulations	
Cyclohexanecarboxylic acid (98-89-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

International	

CANADA

Cyclohexanecarboxylic acid (98-89-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Cyclohexanecarboxylic acid (98-89-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

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Cyclohexanecarboxylic acid (98-89-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List) Listed on NZIOC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

No additional information available

SECTION 16: Other information

Full text of H-phrases:

	H315	Causes skin irritation
	H318	Causes serious eye damage
	H335	May cause respiratory irritation
NFPA	health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA	fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA	reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Haz	ard Rating	
Неа	lth	: 2 Moderate Hazard - Temporary or minor injury may occur
Flan	nmability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Phy	sical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Pers	sonal protection	: C
		C - Safety glasses, Gloves, Synthetic apron

Synerzine US

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product