

SAFETY DATA SHEET

Revision Date 12-Dec-2023

Revision Number 5

1. Identification

Product Name

Cycloheptene

Cat No. : AC304260000; AC304260050; AC304260250

CAS No Synonyms 628-92-2 No information available

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company 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: 001-800-227-6701 / **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)

Flammable liquids

Category 2

Label Elements

Signal Word Danger

Hazard Statements Highly flammable liquid and vapor



Precautionary Statements Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/protective clothing/eye protection/face protection Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store in a well-ventilated place. Keep cool 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 %			
Cycloheptene		628-92-2	<=100			
	Λ	First-aid measures				
	4.	I II St-alu Measules				
General Advice	If symptoms persist, call a physician.					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.					
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.					
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.					
Ingestion	Clean mouth with water and drink afterwards plenty of water.					
Most important symptoms and effects Notes to Physician	. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness tiredness, nausea and vomiting Treat symptomatically					
	5. Fir	re-fighting measures				

Suitable Extinguishing Media Carbon dioxide (CO₂). Dry chemical. Water mist may be used to cool closed containers. Chemical foam.

Unsuitable Extinguishing Media	No information available
Flash Point	-6 °C / 21.2 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available

Specific Hazards Arising from the Chemical

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

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.

<u>NFPA</u>	Health 0	Flammability 3	Instability 0	Physical hazards N/A			
		6. Accidental re	lease measures				
Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Remo sources of ignition. Take precautionary measures against static discharges.							
Environm	nental Precautions	Should not be released inte					
Methods Up	for Containment and C	Clean Keep in suitable, closed co Remove all sources of igni	ontainers for disposal. Soak up tion. Use spark-proof tools and				
		7. Handling	and storage				
Handling		get in eyes, on skin, or on flames, hot surfaces and s of vapors by static electrici	clothing. Avoid ingestion and ir ources of ignition. Use only nor	ure adequate ventilation. Do not halation. Keep away from open n-sparking tools. To avoid ignition the equipment must be grounded.			
			II-ventilated place. Keep contai e. Flammables area. Incompa	ner tightly closed. Keep away tible Materials. Strong oxidizing			
	8.	Exposure controls	/ personal protecti	on			
Exposure	e Guidelines		ain any hazardous materials w gion specific regulatory bodies.				
Engineer	ing Measures	Ensure adequate ventilation electrical/ventilation	n, especially in confined areas g equipment.	. Use explosion-proof			
<u>Personal</u>	Protective Equipment						

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Physical State	Liquid
Appearance	Colorless
Odor	Petroleum distillates
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-56 °C / -68.8 °F
Boiling Point/Range	114.6 °C / 238.3 °F @ 760 mmHg
Flash Point	-6 °C / 21.2 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	3.32
Specific Gravity	0.820
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	C7 H12
Molecular Weight	96.17

10. Stability and reactivity

Reactive Hazard None known, based on information available				
Stability	Stable under normal conditions.			
Conditions to Avoid	Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.			
Incompatible Materials Strong oxidizing agents				
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)				
Hazardous Polymerization No information available.				
Hazardous Reactions None under normal processing.				
11. Toxicological information				

Acute Toxicity

Product Information	No acute toxicity information is available for this product The toxicological properties have not been fully investigated
Oral LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Dermal LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Vapor LC50	Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

Component Informa Toxicologically Syn Products Delayed and immed	ergistic	No information ava		nd long-term expo	sure						
Irritation		No information ava	No information available								
Sensitization		No information ava	ailable								
Carcinogenicity		The table below in	he table below indicates whether each agency has listed any ingredient as a carcinogen.								
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico					
Cycloheptene	628-92-2	Not listed	Not listed	Not listed	Not listed	Not listed					
Mutagenic Effects		No information ava	ailable								
Reproductive Effect	S	No information ava	ailable.								
Developmental Effe	cts	No information ava	ailable.								
Teratogenicity		No information ava	ailable.								
STOT - single expos STOT - repeated exp		None known None known									
Aspiration hazard		No information ava	ailable								
Symptoms / effects delayed	,both acute and	Inhalation of high v tiredness, nausea		ons may cause sym	ptoms like headac	he, dizziness,					
Endocrine Disrupto	r Information	No information ava	ailable								
Other Adverse Effect	her Adverse Effects The toxicological properties have not been fully investigated.										
		12. Ecolo	ogical infor	rmation							
<u>Ecotoxicity</u> Do not empty into dra	ains.										
Persistence and De	gradability	Soluble in water Persistence is unlikely based on information available. Immiscible with water									
Bioaccumulation/ A	ccumulation	No information available.									
Mobility		Will likely be mobile in the environment due to its water solubility. Is not likely mobile in the environment due its low water solubility. Will likely be mobile in the environment due to its volatility.									
13. Disposal considerations											
Waste Disposal Met	hods	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. Tran	sport infor	mation							
DOT_		UN2242									
		3									
UN-No Hazard Class		3 									
Hazard Class Packing Group		11									
Hazard Class Packing Group TDG											
Hazard Class Packing Group		II UN2242 3									

Packing Group	II
IATA	
UN-No	UN2242
Proper Shipping Name	CYCLOHEPTENE
Hazard Class	3
Packing Group	II
IMDG/IMO	
UN-No	UN2242
Proper Shipping Name	CYCLOHEPTENE
Hazard Class	3
Packing Group	II
	15. Regulatory inf

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Cycloheptene	628-92-2	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

ormation

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Cycloheptene	628-92-2	-	-	211-060-4	-	-		-	Х	KE-09153

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable		
Clean Air Act	Not applicable		
OSHA - Occupational Safety and Health Administration	Not applicable		

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and

Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Cycloheptene	-	Х	-	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland	This product does not contain any DHS chemicals.
Security	

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Not applicable

Component		REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	5	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Cycloheptene	628-92-2	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Cycloheptene	628-92-2	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

	Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
[Cycloheptene	628-92-2	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By

Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com Revision Date Print Date Revision Summary 12-Dec-2023 12-Dec-2023 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

