

SAFETY DATA SHEET

Creation Date 06-Nov-2010

Revision Date 24-Dec-2021

Revision Number 5

1. Identification

2-Methylcyclohexanol, mixture of cis and trans

Product Name

Cat No. :

AC166890000; AC166890010; AC166890025; AC166890050;

CAS No Synonyms 583-59-5 No information available

AC166892500

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 Scienti

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-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)

Flammable liquids Acute oral toxicity Acute Inhalation Toxicity - Vapors Serious Eve Damage/Eve Irritation	Category 3 Category 4 Category 4
Serious Eye Damage/Eye Irritation	Category 2

Label Elements

Signal Word Warning

Hazard Statements Flammable liquid and vapor Causes serious eye irritation Harmful if swallowed or if inhaled



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Use only outdoors or in a well-ventilated area

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

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

Eyes

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

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

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 %
2-Methylcyclohexanol	583-59-5	>95

4. First-aid measures

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	Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically	

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may
	be used to cool closed containers.

Unsuitable Extinguishing Media	No information available
Flash Point	58 °C / 136.4 °F
Method -	No information available
Autoignition Temperature	296 °C / 564.8 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No data available 1.30 vol % No information available No information available

Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

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.

NFPA_ Health 2	Flammability 2	Instability 0	Physical hazards N/A
	6. Accidental release	measures	
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.		
Environmental Precautions	Should not be released into the environment.		
Methods for Containment and Clear Up	n Soak up with inert absorbent materi Remove all sources of ignition. Use	· · · · ·	1
	7. Handling and s	torage	
Handling	Wear personal protective equipmen get in eyes, on skin, or on clothing. flames, hot surfaces and sources of	Avoid ingestion and inhalati	on. Keep away from open

precautionary measures against static discharges.

Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Flammables area. Incompatible Materials. Strong oxidizing agents. Acid anhydrides. Acid chlorides.	
	xposure controls / personal protection	
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.	
Engineering Measures	Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.	
Personal 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	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.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

9. Physical	l and chemical properties
Physical State	Liquid
Appearance	Clear, Viscous
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-38 °C / -36.4 °F
Boiling Point/Range	163 - 166 °C / 325.4 - 330.8 °F @ 760 mmHg
Flash Point	58 °C / 136.4 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	1.30 vol %
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	0.930
Solubility	slightly soluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	296 °C / 564.8 °F
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C7 H14 O
Molecular Weight	114.19

10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability	Stable under normal conditions.	
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.	
Incompatible Materials	Strong oxidizing agents, Acid anhydrides, Acid chlorides	
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

Component Informa									
Componen			LD50 Oral		LD50 Dermal		LC50 Inhalation		
2-Methylcyclohe		L	LD50 = 1125 mg/kg (Rat)			Not listed		E 11 mg/L (vapours)	
Toxicologically Syn			No information ava				•	.	
Products	0								
Delayed and immed	iate effects	as we	ell as chronic effe	cts from s	short and	long-term expo	sure		
Irritation			No information ava	ailable					
Sensitization			No information ava	ailable					
Carcinogenicity			The table below in	dicates wh	nether each	n agency has lis	ted any ingredient	as a carcinogen.	
Component	CAS N	0	IARC	NTE	P	ACGIH	OSHA	Mexico	
2-Methylcyclohexanol	583-59-	-5	Not listed	Not lis	sted	Not listed	Not listed	Not listed	
Mutagenic Effects			No information ava	ailable					
Reproductive Effect	ts		No information ava	ailable.					
Developmental Effe	cts		No information ava	ailable.					
Teratogenicity			No information available.						
STOT - single expos STOT - repeated ex			None known None known						
Aspiration hazard			No information available						
Symptoms / effects delayed	,both acute	e and	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting						
Endocrine Disrupto	r Informatio	on	No information available						
Other Adverse Effects			The toxicological properties have not been fully investigated.						
12. Ecological information									
Ecotoxicity Do not empty into drains									
Persistence and De	gradability		Persistence is unlikely						
Bioaccumulation/ A	ccumulatio	n	No information available.						
Mobility		,	Will likely be mobile in the environment due to its volatility.						

13. Disposal considerations

Waste Disposal Methods

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	
UN-No	UN2617
Proper Shipping Name	METHYLCYCLOHEXANOLS
Hazard Class	3
Packing Group	III
TDG	
UN-No	UN2617
Proper Shipping Name	METHYLCYCLOHEXANOLS
Hazard Class	3
Packing Group	III
ΙΑΤΑ	
UN-No	UN2617
Proper Shipping Name	METHYLCYCLOHEXANOLS
Hazard Class	3
Packing Group	III
IMDG/IMO	
UN-No	UN2617
Proper Shipping Name	METHYLCYCLOHEXANOLS
Hazard Class	3
Packing Group	
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
2-Methylcyclohexanol	583-59-5	Х	ACTIVE	-

Legend:

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

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

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
2-Methylcyclohexanol	583-59-5	Х	-	209-512-0	Х	Х	Х	Х	Х	KE-23697

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

U.S. Federal Regulations

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 Administration	Not applicable
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 Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

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)
2-Methylcyclohexanol	583-59-5	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention
		(2012/18/EC) -	(2012/18/EC) -	Convention (PIC)	(Hazardous Waste)
		Qualifying Quantities	Qualifying Quantities		
		for Major Accident	for Safety Report		
		Notification	Requirements		
2-Methylcyclohexanol	583-59-5	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	06-Nov-2010 24-Dec-2021 24-Dec-2021 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