

SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 4

1. Identification						
Product Name	Ethyl cyanoacetate					
Cat No. :	AC118280000; AC118280010; AC118280050; AC118280051; AC118282500					
CAS No Synonyms	105-56-6 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	Acros Organics					

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)

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/spray 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

Component		CAS No	Weight %		
Ethyl cyanoacetate		105-56-6	98		
	4.	First-aid measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes medical attention.				
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.				
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.				
Ingestion	Clean mouth with water. Get medical attention.				
Most important symptoms and effects	No informatio	on available.			
Notes to Physician	Treat sympto	matically			

	5. Fire-fightir	ng measures						
Suitable Extinguishing Media	Water spray. Carbon dioxio containers. Chemical foam	de (CO ₂). Dry chemical. Water i	mist may be used to cool closed					
Insuitable Extinguishing Media	No information available							
Flash Point	110 °C / 230 °F							
Method -	No information available							
Autoignition Temperature	478 °C / 892.4 °F							
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							
pecific Hazards Arising from the C keep product and empty container aw		ignition.						
Hazardous Combustion Products Nitrogen oxides (NOx). Carbon monox Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.	ons for Firefighters		ed or equivalent) and full					
NFPA Health 2	Flammability 1	Instability 0	Physical hazards N/A					
	6. Accidental re	lease measures						
Personal Precautions Environmental Precautions		n. Use personal protective equi	pment as required.					

	7. Handling and storage
Handling	Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from direct sunlight. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases. Strong reducing agents.
	8. Exposure 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	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Acute Toxicity

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	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

Physical State	Liquid
Appearance	Light yellow
Odor	aromatic
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-22 °C / -7.6 °F
Boiling Point/Range	208 - 210 °C / 406.4 - 410 °F @ 760 mmHg
Flash Point	110 °C / 230 °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	1.3 hPag @ 68 °C
Vapor Density	3.9
Specific Gravity	1.060
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	478 °C / 892.4 °F
Decomposition Temperature	No information available
Viscosity	1.01 mPa.s at 20 °C
Molecular Formula	C5 H7 N O2
Molecular Weight	113.12

10. Stability and reactivity

Reactive Hazard	None known, based on information available			
Stability	Stable under normal conditions.			
Conditions to Avoid	Heat, flames and sparks. Exposure to light. Incompatible products.			
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents			
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂), Fumes, Cyanides				
Hazardous Polymerization	No information available.			
Hazardous Reactions	None under normal processing.			

11. Toxicological information

Product Information No acute toxicity information is available for this product Component Information LD50 Oral LD50 Dermal LC50 Inhalation

Ethyl cyanoace	etate	Not listed	LD50 >	1000 mg/kg (Rabbit)	LC50 > 7380	mg/m³(Rat)1 h		
Toxicologically Syn Products	ergistic	No information ava	ilable					
Delayed and immed	liate effects as w	vell as chronic effec	cts from short ar	d long-term expos	ure			
Irritation		No information available						
Sensitization		No information ava	ilable					
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcin						
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Ethyl cyanoacetate	105-56-6	Not listed No information ava	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No mormation ava	liable					
Reproductive Effect	ts	No information ava	ilable.					
Developmental Effe	cts	No information ava	ilable.					
Teratogenicity		No information ava	ilable.					
STOT - single expos STOT - repeated exp		Respiratory system None known						
Aspiration hazard		No information ava	ilable					
Symptoms / effects delayed	s,both acute and	No information ava	ilable					
Endocrine Disrupto	locrine Disruptor Information No information available							
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.						
		12. Ecolo	ogical infor	mation				
Ecotoxicity Do not empty into dra	ains							
Persistence and De	gradability	Soluble in water Pe	ersistence is unlik	ely based on informa	tion available.			
Bioaccumulation/ A	ccumulation	No information ava	ilable.					
Mobility		Will likely be mobile	e in the environme	ent due to its water s	olubility.			
		13. Dispos	sal conside	erations				
Waste Disposal Met	thods	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. Trans	sport infor	mation				
DOT UN-No		UN2810						
Hazard Class		6.1						
Packing Group		III						
<u>_ TDG</u> UN-No		UN2810						
Hazard Class		6.1						
Packing Group		III						
IATA		Not regulated						

IMDG/IMO Not regulated

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Ethyl cyanoacetate	105-56-6	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
Ethyl cyanoacetate	105-56-6	Х	-	203-309-0	Х	Х	Х	Х	Х	KE-09030

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

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island		
Ethyl cyanoacetate	Х	Х	Х	-	-		
U.S. Department of Trans	sportation						
Reportable Quantity (RQ):	Ν						
DOT Marine Pollutant	Ν						
DOT Severe Marine Pollut	ant N						
U.S. Department of Home Security	eland This pro	This product does not contain any DHS chemicals.					
Other International Regu	lations						
	NI : (

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)
Ethyl cyanoacetate	105-56-6	Listed	Not applicable	Not applicable	Not applicable
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)
Ethyl cyanoacetate	105-56-6	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	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

End of SDS