

Material Safety Data Sheet

Ethyl Cyanoacetate, 98+%

ACC# 84598

Section 1 - Chemical Product and Company Identification

MSDS Name: Ethyl Cyanoacetate, 98+%

Catalog Numbers: AC118280000, AC118280010, AC118280050, AC118282500, AC118285000

Synonyms:

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
105-56-6	Ethyl Cyanoacetate	98	203-309-0

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: clear very light yellow liquid.

Caution! Lachrymator (substance which increases the flow of tears). May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Light sensitive. Moisture sensitive.

Target Organs: None.

Potential Health Effects

Eye: May cause eye irritation. Lachrymator (substance which increases the flow of tears).

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract.

Inhalation: May cause respiratory tract irritation.

Chronic: Not available.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Substance may react with water, and may release corrosive and/or toxic gases.

Extinguishing Media: Use dry chemical or carbon dioxide. Contact with water or steam may produce toxic and flammable vapors.

Flash Point: 110 deg C (230.00 deg F)

Autoignition Temperature: 478 deg C (892.40 deg F)

Explosion Limits, Lower:Not available.

Upper: Not available.

NFPA Rating: 1 - health, 1 - flammability, 1 - instability

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Ethyl Cyanoacetate	none listed	none listed	none listed

OSHA Vacated PELs: Ethyl Cyanoacetate: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: 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: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: 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.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: clear very light yellow

Odor: pleasant odor

pH: Not available.

Vapor Pressure: 1 mmHg @ 68 C

Vapor Density: 3.9

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: 208 - 210 deg C @ 760.00mm Hg

Freezing/Melting Point: -22 deg C

Decomposition Temperature: Not available.

Solubility: Insoluble.

Specific Gravity/Density: 1.0630g/cm³

Molecular Formula: C₅H₇NO₂

Molecular Weight: 113.12

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, moist air.

Incompatibilities with Other Materials: Strong oxidizing agents, strong reducing agents, strong acids, strong bases.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:**CAS#** 105-56-6: AG4110000**LD50/LC50:**

Not available.

Carcinogenicity:

CAS# 105-56-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No data available.**Teratogenicity:** No data available.**Reproductive Effects:** No data available.**Mutagenicity:** No data available.**Neurotoxicity:** No data available.**Other Studies:**

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.**RCRA U-Series:** None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	TOXIC LIQUIDS, ORGANIC, N.O.S.	TOXIC LIQUIDS,ORGANIC,NOS (ETHYL CYANOACETATE)
Hazard Class:	6.1	6.1
UN Number:	UN2810	UN2810
Packing Group:	III	III

Section 15 - Regulatory Information

US FEDERAL**TSCA**

CAS# 105-56-6 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 105-56-6 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XI

Risk Phrases:

R 38 Irritating to skin.

Safety Phrases:

S 37 Wear suitable gloves.

WGK (Water Danger/Protection)

CAS# 105-56-6: 1

Canada - DSL/NDSL

CAS# 105-56-6 is listed on Canada's DSL List.

Canada - WHMIS

not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 105-56-6 is listed on the Canadian Ingredient Disclosure List.

Ethyl Cyanoacetate

Category:	Organic chemicals and Derivatives
CAS NO:	105-56-6
EC NO:	203-309-0
MF:	C ₅ H ₇ NO ₂
MW:	113.1146
Specification:	

Product description:

Molecular formula: C₅H₇NO₂

Molecular weight: 113.12

CAS NO: 105-56-6

Physical nature: colorless transparent liquid

Use: Used to medicine, pigment, bonder, agricultural pesticide etc

Packing: 200kg/plastic drum

Requirements of Production

Specification	Standard
Appearance	colorless or light yellow liquid
Assay	99 %
Acidity	0.1 %
Moisture	0.1 %
Boiling point	206 -208 C (93.33KPa)
Melting point	-22.5 C
Specific Gravity	1.056 (20 C)
Refractive Index	1.4177(20 C)

Synonyms: Cyanoacetic acid ethyl ester;ETHYLE CYANACETATE;