

Ethyl (ethoxymethylene)cyanoacetate Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 11/26/2019 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product Identifier Product form Substance name Etyl (212, 2-oyano-3-ethoxyprop-2-enoate EC-No. 2.22299-5 CAS-No Section 1: 22299-5 CAS-No Section 2: 2299-5 CAS-N		
Product form Substance Substance name Substance UIPAC name : ethy (2h2y2-cyano-3-ethoxyptop-2-enoate EC-No. : 202299-5 CASNO. : 94-09-3 Product code : 50147670 Formula : : 2047070 Product code : : 50147670 Formula : : : : : : : : : : : : : : : : : : :		nce/mixture and of the company/undertaking
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2.3. Other hazards This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients 3.1. Substances			
Name	Product identifier	%	
Ethyl (ethoxymethylene)cyanoacetate	(CAS-No.) 94-05-3 (EC-No.) 202-299-5	100	
Full text of H-statements: see section 16	·	·	
3.2. Mixtures			

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If possible show this sheet, if not available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.
First-aid measures after inhalation	 If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties persist : Get medical advice/attention.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation persists, consult a doctor.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after inhalation	: Irritation to throat. Headache. Cough. Burning sensation.
Symptoms/effects after skin contact	: Causes skin irritation. Itching. Redness, pain.
Symptoms/effects after eye contact	: Causes serious eye irritation. redness, itching, tears. stinging.
Symptoms/effects after ingestion	: Harmful if swallowed. Swallowing this material may result in health hazard. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting.

4.3. Indication of any immediate medical attention and special treatment needed Get immediate medical advice/attention.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa	ance or mixture
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2). Nitrogen oxides.
5.3. Advice for firefighters	
Precautionary measures fire	: Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Warn all persons of toxic hazard.

SECTION 6: Accidental release measures			
nent and emergency procedures			
: Isolate from fire, if possible, without unnecessary risk. Avoid dust formation. No flames, no sparks. Eliminate all sources of ignition.			
: Wear recommended personal protective equipment.			
: Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing.			
: Keep upwind. Avoid creating or spreading dust. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).			

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6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public water	s. Notify authorities if product enters sewers or public waters.
6.3. Methods and material for cont	tainment and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Shovel or sweep up and put in a close container for disposal.
6.4. Reference to other sections	

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage 7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid creating or spreading dust. Provide local exhaust or general room ventilation.
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, including a	ny incompatibilities
Technical measures	: Ensure adequate ventilation, especially in confined areas.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container closed when not in use.
Incompatible products	: Strong oxidizing agents. Strong acids. Strong bases. Strong reducing agents.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Storage area	: Store below 20 °C. Store in a dry place. Store in a closed container.

7.3. Specific end use(s) For analytical purposes. Scientific research and development. Not for human consumption or veterinary purposes.

SECTION 8: Exposure controls/personal protection							
8.1. Control parameters							
No additional information							
8.2. Exposure contro							
Appropriate engineerin	•						
Handle in accordance wi	-	istrial hygiene	e and safety procedures.				
Personal protective equ	•						
Avoid all unnecessary ex	posure.						
Materials for protective	e clothing:						
Wear suitable protective	e clothing, gl	oves and eye	/face protection				
Hand protection:							
The protective gloves to	be used mu	ist comply wi	th the specifications of th	ne regulation 2016/425 ar	d the result	ant standard	EN 374
Туре	Material		Permeation	Thickness (mm)	Penetratio	on	Standard
Disposable gloves	Nitrile rubb	er (NBR)	6 (> 480 minutes)	0.11			EN 374
Eye protection:							
Emergency eye wash fo designed to protect again			ble in the immediate vicir	nity of any potential expos	ure. Use ey	e protection a	according to EN 166,
Туре		Use		Characteristics		Standard	
Safety goggles Fine dust, Dust		ust	tightly fitting safety goggles, With EN side shields		EN 166	N 166	
Skin and body protection:							
Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use							
Туре			Standard				
Protective clothing (with elasticated cuffs and closed neck)			sed neck)	EN ISO 13982			

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Respiratory protection:

Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Туре РЗ	Dust protection	EN 14387, EN 143

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical pr	operties
9.1. Information on basic physical and che	
Physical state	: Solid
Appearance	: Crystalline powder. Powder.
Molecular mass	: 169.18 g/mol
Colour	: White to off-white. light yellow.
Odour	: No data available.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 49 - 51 °C lit.
Freezing point	: No data available
Boiling point	: 190 - 191 lit.
Flash point	: 130 °C closed cup.
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 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 recommended handling and storage conditions (see section 7).
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5. Incompatible materials
Strong oxidizers. Strong acids. Strong bases. Strong reducing agents.
10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature. Thermal decomposition generates : Carbon oxides (CO, CO2). Nitrogen oxides.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Oral: Harmful if swallowed.	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	

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Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Causes serious eye irritation.
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: May cause respiratory irritation.
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term : (acute)	Not classified
Hazardous to the aquatic environment, long-term : (chronic)	Not classified
12.2. Persistence and degradability	
Ethyl (ethoxymethylene)cyanoacetate (94-05-3	3)
Persistence and degradability	No data available.
12.3. Bioaccumulative potential	
Ethyl (ethoxymethylene)cyanoacetate (94-05-3)	
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
Ethyl (ethoxymethylene)cyanoacetate (94-05-3)	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
12.6. Other adverse effects	
Additional information :	Avoid release to the environment.

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping	14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
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14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental haz	ards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary informatio	on available			
14.6. Special precautions for user				
Overland transport				
Not regulated				
Transport by sea				
Not regulated				
Air transport				
Not regulated				
Inland waterway transport				
Not regulated				
Rail transport				
Not regulated				
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code				
Not applicable				
SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture				
15.1.1. EU-Regulations				

No REACH Annex XVII restrictions

Ethyl (ethoxymethylene)cyanoacetate is not on the REACH Candidate List Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other informat	ion
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	

SDS EU (REACH Annex II)

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.