

# ETHYL 3-AMINOCROTONATE

## Safety Data Sheet

Supersedes: 02/05/2022

Revision: 1.2

Revision date: 12/12/2023

### SECTION 1: Identification

#### 1.1 Identification

Product form	:	Substance
Substance name	:	Ethyl 3-aminocrotonate
CAS No	:	7318-00-5
EC/ List No	:	230-782-0
Formula	:	C <sub>6</sub> H <sub>11</sub> NO <sub>2</sub>
Molecular weight	:	129.16 g/mol
Synonyms	:	Ethyl 3-aminobut-2-enoate, 3-Aminocrotonic acid ethyl ester

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture	:	Laboratory chemicals, Manufacture of substances
Relevant identified uses	:	Intermediate
Uses advised against:	:	Not known

#### 1.3 Details of the supplier of the safety datasheet

Godavari Biorefineries Ltd.  
45/47, Somaiya bhavan,  
Mahatma Gandhi Road,  
Fort, Mumbai -400001, INDIA.  
T 0091 22 22048272  
Email: [alka@somaiya.com](mailto:alka@somaiya.com)  
[www.somaiya.com](http://www.somaiya.com)

#### 1.4 Emergency Telephone Number

Emergency number	:	0091 2423 279308 0091 22 22048272 (Monday – Friday - 09.30 hrs to 18.00 hrs)
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### SECTION 2: Hazard(s) identification

#### GHS classification

##### 2.1 Classification of the substance or mixture

Skin Corr. (Category 1B)	:	H314
Serious Eye damage (Category 1)	:	H318
Specific target organ toxicity, single exposure: Respiratory tract irritation (Category 3)	:	H335

##### 2.2 GHS labeling

#### Hazard Pictograms (GHS)



GHS 07

GHS 05

#### Signal word (GHS)

: Danger

#### Hazard statements (GHS)

: H314 - Causes severe skin burns and eye damage.  
: H318 - Causes serious eye damage.  
: H335 - May cause respiratory irritation.

#### Precautionary statements (GHS)

: P261 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
: P280 - Wear protective gloves/protective clothing/eye protection/face

# ETHYL 3-AMINOCROTONATE

## Safety Data Sheet

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protection.

- : P310- Immediately call a POISON CENTER or doctor/physician.
- : P305+P351+P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Supplemental Hazard information:** : None

### 2.3 Other hazards

Not available.

## SECTION 3: Composition/Information on ingredients

### 3.1 Substance

Name	Product Identifier CAS No. EC No.	Concentration %	GHS Classification
Ethyl 3-aminocrotonate	7318-00-5 230-782-0	Minimum 97	Skin Corr. 1B - H314; Eye Dam.1 -H318 STOT SE 3 -H335

Full text of hazard classes and H-statements: see section 16

### 3.2 Mixture

Not applicable.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General information** : Consult a physician. Show this safety data sheet to the doctor in attendance.
- Inhalation** : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin contact** : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
- Eye contact** : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Ingestion** : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : Do NOT use water jet.

### 5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products : Carbon oxides, Nitrogen oxides (NOx)

### 5.3 Advice for firefighters

- Firefighting instructions : Wear self-contained breathing apparatus for firefighting if necessary.

# ETHYL 3-AMINOCROTONATE

## Safety Data Sheet

Supersedes: 02/05/2022

Revision: 1.2

Revision date: 12/12/2023

### 5.4 Additional information

No data available.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains

### 6.3 Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

### 7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters


#### 8.1.1 Occupational exposure limits:

Ingredients with workplace control parameters

### 8.2 Exposure controls

8.2.1 Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 8.2.2 Personal protective equipment:

Personal protective equipment	:	    	Protective goggles. Gloves. Protective clothing. Face shield. Gas mask with filter.
Eye/face protection	:	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).	
Skin protection: Hand protection	:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.	
Body protection:	:	Complete suit protecting against chemicals, flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace	

# ETHYL 3-AMINOCROTONATE

## Safety Data Sheet

Supersedes: 02/05/2022

Revision: 1.2

Revision date: 12/12/2023

Respiratory protection	:	Where risk assessment shows air-purifying respirators are appropriate use a full face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Environmental exposure controls	:	Do not let product enter drains.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state	:	Semi-Solid
Appearance	:	No Data Available
Colour	:	Light yellow
Odour	:	No Data Available
pH	:	No Data Available
Melting point	:	33 -35 °C
Freezing point	:	No Data Available
Initial boiling point/boiling range	:	210 - 215 °C
Flash Point	:	97 °C – closed cup
Relative evaporation rate	:	No Data Available
Relative density	:	1.022 g/cm <sup>3</sup> at 25 °C
Relative vapour density at 20°C	:	No Data Available
Specific gravity/ density	:	No Data Available
Molecular mass	:	129.16 g/mol
Flammability(Solid, Gas)	:	No Data Available
Upper/lower flammability or Explosive limit	:	No Data Available
Solubility	:	No Data Available
Vapor pressure	:	No Data Available
Vapour density	:	No Data Available
Evaporation Rate	:	No Data Available
Partition coefficient n-octanol/water	:	No Data Available
Auto-ignition temperature	:	No Data Available
Decomposition temperature	:	No Data Available
Viscosity	:	No Data Available
Explosive Limits	:	No Data Available
Oxidizing properties	:	No Data Available

#### 9.2 Other information

No Data Available.

### SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	:	No data available
<b>10.2 Chemical Stability</b>	:	Stable under recommended storage conditions
<b>10.3 Possibility of hazardous reactions</b>	:	No Data Available
<b>10.4 Conditions to avoid</b>	:	No data available

# ETHYL 3-AMINOCROTONATE

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- 10.5 Incompatible materials** : Acids Bases, oxidizing agents, reducing agents,
- 10.6 Hazardous decomposition products** : Hazardous decomposition products formed under fire conditions. –  
Carbon oxides, Nitrogen oxides (NOx)  
Other decomposition products - No data available  
In the event of fire: see section 5

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

- Acute oral toxicity : No data available
- Skin corrosion/irritation : No data available
- Eye irritation : No data available
- Respiratory or skin sensitization : No data available
- Germ cell mutagenicity : No data available
- Carcinogenicity : IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- Reproductive toxicity : No data available
- Specific target organ toxicity(single exposure) : Inhalation - May cause respiratory irritation.
- Specific target organ toxicity (repeated exposure) : No data available
- Aspiration hazard : No data available
- Additional information : RTECS: Not available  
Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

### SECTION 12: Ecological information

#### 12.1 Toxicity

- Toxicity** : No data available

#### 12.2 Persistence and degradability

No data available.

#### 12.3 Bio accumulative potential

No data available.

#### 12.4 Mobility in soil

No Data Available.

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

#### 12.5 Other adverse effects

No data available.

# ETHYL 3-AMINOCROTONATE

## Safety Data Sheet

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Revision date: 12/12/2023

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product disposal** : Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.
- Packaging:** : Dispose of as unused product.

### SECTION 14: Transport Information

#### Marine transport (IMDG)

- UN number : UN 3263
- Proper shipping name and description : CORROSIVE SEMI-SOLID, BASIC, ORGANIC, N.O.S. (Ethyl 3-aminocrotonate)
- Class : 8
- Packaging group : III
- Hazard Identification Number : 33
- EmS code : F-E, S-D
- Marine pollutant : No

#### Air transport ICAO/IATA

- UN number : UN 3263
- Proper shipping name and description : CORROSIVE SEMI-SOLID, BASIC, ORGANIC, N.O.S. (Ethyl 3-aminocrotonate)
- Class : 8
- Packaging group : III
- Hazard Labels : 8
- Environmentally hazardous : No

#### Department of Transportation (DOT)

- UN number : UN 3263
- Proper shipping name and description : CORROSIVE SEMI-SOLID, BASIC, ORGANIC, N.O.S. (Ethyl 3-aminocrotonate)
- Class : 8
- Packaging group : III
- Reportable Quantity (RQ) : Not applicable
- Poison Inhalation Hazard : No
- Hazard labels (DOT) : 8 – Corrosive Semi-Solid



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### SECTION 15: Regulatory information

#### 15.1 National regulations

Country	National Inventories	Listing
CANADA	NDSL	Not Listed
JAPAN	ENCS	Not Listed
PHILIPPINES	PICCS	Not Listed
SOUTH KOREA	KECL	Not Listed
USA	TSCA	Not Listed
EUROPE	EINECS	Not Listed

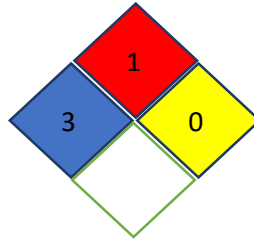
### SECTION 16: Other information

#### 16.1 Hazard Statement

- H 314 : Causes severe skin burns and eye damage.  
H 318 : Causes serious eye damage  
H 335 : May cause respiratory irritation

#### 16.2 NFPA Rating

:



#### 16.3 Abbreviations and acronyms :

- PBT =Persistent Bio accumulative and Toxic
- vPvB= Very Persistent and Very Bio accumulative
- SCBA= Self Contained Breathing Apparatus
- NIOSH REL= National Institute for Occupational Safety and Health Recommended Exposure Limit
- OSHA PEL=Occupational Safety and Health Administration Permissible Exposure Limit
- OELTWA= Occupational Exposure Limit Time Weighted Averages
- IDLH= Immediately Dangerous to Life or Health
- UEL= Upper Explosive Limit
- LEL= Lower Explosive Limit
- RTECS= Registry of Toxic Effects of Chemical Substances
- NTP=National Toxicology Program
- IARC= International Agency for Research on Cancer
- EPA=Environmental Protection Agency
- TSCA= Toxic Substances Control Act
- NFPA= National Fire Protection Association
- CSR=Chemical Safety Report

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## Safety Data Sheet

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BCF = Bio Concentration Factor

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

TLV = Threshold Limit Value

ACGIH = American Conference of Governmental Industrial Hygienist

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CLP = Classification, Labelling and Packaging

LD / LC = Lethal Doses / Lethal Concentration

GHS = Globally Harmonized System

ADR = Accord European relative au transport international de marchandises

IMDG-Code = International Maritime Code for Dangerous Goods

EmS = Emergency measures on Sea

ICAO = International Civil Aviation Organization

IATA/DGR= International Air Transport Association/Dangerous Goods Regulation

### 16.4 Further information:

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