### **OM SHREE GANESHYA NAMAH**



### CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAł 400062, MH, INDIA. CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

# MATERIAL SAFETY DATA SHEET (MSDS) CROTONIC ACID (FOR SYNTHESIS)

### 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Trade name	: CROTONIC ACID ( FOR SYNTHESIS)
Product code	: C0080001000
Identification of the product	: 2-Butenoic acid CAS No :3724-65-0 EC No :223-077-4
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised against
Use	: Industrial. For professional use only.
1.3. Details of the supplier of the safe	<u>ty data sheet</u>
Company identification	SUVCHEM Chaitanya Tower, 2nd Floor, Office # 206, Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062, Maharashtra, India. Contact: +91 22 28725393 / 94 / 95
1.4. Emergency telephone number	Email ID: info@suvchem.com/care@suvchem.com
Phone no.	: + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

### 2. Hazards identification -DSD

### 2.1. Classification of the substance or mixture

### Classification EC 67/548 or EC 1999/45

Classification : Xn; R21/22 C; R34

### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards: Acute toxicity, dermal - Category 4 - Warning (CLP : Acute Tox. 4) H312<br/>Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302<br/>Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318<br/>Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314

### 2.2. Label elements

### Labelling EC 67/548 or EC 1999/45

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2. Hazards identification -DSD (continued)

### Symbol(s) Symbol(s) : C : Corrosive R Phrase(s) : R21/22 : Harmful in contact with skin and if swallowed. R34 : Causes burns. S Phrase(s) : S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection. S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible). Labelling Regulation EC 1272/2008 (CLP) Hazard pictograms Signal words : Danger : H314 : Causes severe skin burns and eve damage. Hazard statements H302 : Harmful if swallowed. H312 : Harmful in contact with skin. **Precautionary statements** Prevention : P280: Wear protective gloves, protective clothing, eye protection, face protection. P260: Do not breathe dust, fume, gas, mist, vapours, spray. P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product. : P302+P352: IF ON SKIN : Wash with plenty of soap and water. Response P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting. P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower. P363: Wash contaminated clothing before reuse. : P405: Store locked up. Storage : P501: Dispose of this material and its container to hazardous or special waste Disposal considerations collection point, in accordance with local, regional, national and/or international regulation. 2.3. Other hazards Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.



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### 3. Composition/information on ingredients

: 2-Butenoic acid CAS No :3724-65-0 EC No :223-077-4 Substance.

Contains no other components or impurities which will influence the classification of the product.

### 4. First aid measures

Substance / Preparation

### 4.1. Description of first aid measures

Inhalation	: Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	: Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Specific treatment ( see on this label). Wash contaminated clothing before reuse.
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Ingestion	: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Rinse mouth.
4.2. Most important symptoms a	nd effects, both acute and delayed
Symptoms relating to use	: Causes severe skin burns and eye damage. Causes serious eye damage. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate medical attention and special treatment needed	
General information	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Fire-fighting 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.
Surrounding fires	: Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture



# MATERIAL SAFETY DATA SHEET (MSDS) CROTONIC ACID ( FOR SYNTHESIS)

5. Fire-fighting measures (continued)	
Hazardous combustion products	: Under fire conditions, hazardous fumes will be present. Thermal decomposition generates : Corrosive vapours.
5.3. Advice for fire-fighters	
Protection against fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
6. Accidental release measures	
	e equipment and emergency procedures
	e equipment and emergency procedures : Equip cleanup crew with proper protection. Ventilate area.
6.1. Personal precautions, protective	: Equip cleanup crew with proper protection.
6.1. Personal precautions, protective For emergency responders	: Equip cleanup crew with proper protection. Ventilate area.

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

Clean up methods: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as<br/>possible. Store away from other materials. Collect spillage.

### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

# 7. Handling and storage 7.1. Precautions for safe handling Handling : Do not eat, drink or smoke when using this product. Do not breathe dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Wash contaminated clothing before reuse. Technical protective measures : Provide good ventilation in process area to prevent formation of vapour. 7.2. Conditions for safe storage, including any incompatibilities

 Storage
 : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.



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7. Handling and storage (continue	d)
Storage regulation	: Comply with applicable regulations.
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	
Specific end use(s)	: None.
8. Exposure controls/personal pro	tection
8.1. Exposure controls Personal protection	: Avoid all unnecessary exposure.
Respiratory protection	: Wear approved mask.
Hand protection	: Wear protective gloves.
Skin protection	: Wear suitable protective clothing.
Eye protection	: Chemical goggles or face shield.
• Others	: When using, do not eat, drink or smoke.
8.2. Control parameters	
Occupational Exposure Limits	: No data available.
Occupational Exposure Limits	. INU Uala available.

### 9. Physical and chemical properties

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

Physical state at 20 °C	: Solid.
Colour	: White crystalline
Odour	: N/A
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: 70 - 72 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: 88 °C
Boiling point [°C]	: 180 - 181 °C
Initial boiling point [°C]	: 180°C
Final boiling point [°C]	: 181 °C



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### 9. Physical and chemical properties (continued)

Evaporation rate	: N/A
Vapour pressure [20°C]	: 0.25 hPa at 20 °C
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm3]	: 0,964
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Soluble in water
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm2/s]	: N/A
9.2. Other information	
Explosive properties	: N/A
Explosion limits - upper [%]	: 15,10%
Explosion limits - lower [%]	: 2,20%
Oxidising properties	: No data available.

### 10. Stability and reactivity

<u>10.1. Reactivity</u>	
Reactivity	: Not established.
10.2. Chemical stability	
Chemical stability	: Stable under recommended storage conditions.
10.3. Possibility of hazardous reaction	ons
Hazardous reactions	: Not established.
10.4. Conditions to avoid	
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
10.5. Incompatible materials	
Materials to avoid	: Strong acids. Strong bases.
10.6. Hazardous decomposition prod	lucts



# MATERIAL SAFETY DATA SHEET (MSDS) CROTONIC ACID (FOR SYNTHESIS)

### 10. Stability and reactivity (continued)

Hazardous decomposition products

: Fumes. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

### 11. Toxicological information

### 11.1. Information on toxicological effects

• Inhalation	: Based on available data, the classification criteria are not met.
• Dermal	: Harmful in contact with skin.
Ingestion	: Harmful if swallowed.
Corrosion	: Causes severe skin burns and eye damage. Causes serious eye damage.
Irritation	: Based on available data, the classification criteria are not met.
Sensitization	: Based on available data, the classification criteria are not met.
Mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Toxic for reproduction	: Based on available data, the classification criteria are not met.
STOT-single exposure	: Based on available data, the classification criteria are not met.
STOT-repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

### 12. Ecological information

<u>12.1. Toxicity</u>	
Toxicity information	: Not established.
<u> 12.2. Persistence - degradability</u>	
Persistence - degradability	: Biodegradable.
12.3. Bioaccumulative potential	
Bioaccumulative potential	: Not established.
<u>12.4. Mobility in soil</u>	
Mobility in soil	: Not established.

### 12.5. Results of PBT and vPvB assessment



point, in accordance with local, regional, national and/or international regulation.

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12. Ecological information (continued)	
Results of PBT and vPvB assessment	: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.
12.6. Other adverse effects	
Environmental precautions	: Avoid release to the environment.
13. Disposal considerations	
13.1. Waste treatment methods	
General	: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection

### 14. Transport information

### 14.1. Land transport (ADR-RID)

Proper shipping name	: CROTONIC ACID, SOLID
UN N°	: 2823
H.I. nr	: 80
ADR - Class	: 8
Labelling - Transport	: 8 : Corrosive substance.
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ADR - Classification code	: C4
ADR - Group	: 111
ADR - Packing instructions	: P002 R001 LP002
ADR - Limited Quantity	: 5 KG
ADR - Tunnel code	

G

: E : Passage forbidden through tunnels of category E.

### 14.2. Sea transport (IMDG) [English only]



# MATERIAL SAFETY DATA SHEET (MSDS) CROTONIC ACID ( FOR SYNTHESIS)

### 14. Transport information (continued)

Proper shipping name	: CROTONIC ACID, SOLID
UN N°	: 2823
IMO-IMDG - Class or division	: 8 : Corrosive substance.
IMO-IMDG - Packing group	: 111
IMO- IMDG - Packing instructions	: P002 LP02
IMO-IMDG - Limited quantities	: 5 kg
IMO-IMDG - Marine pollution	: No
EMS-Nr	: F-A S-B

### 14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name	: CROTONIC ACID, SOLID
UN N°	: 2823
IATA - Class or division	: 8 : Corrosive substance.
IATA - Packing group	: 111
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 860
- Passenger and Cargo - Maximum Quantity/Packing	: 25 kg
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 864
- Cargo only - Maximum Quantity/ Packing	: 100 kg
IATA - Limited Quantites	: 5 kg
ERG-Nr	: 8L

### 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental regulations/legislation specific for th substance or mixture	: Ensure all national/local regulations are observed. <b>e</b>
<b>REACH Restrictions - Annex XVII</b>	: The components of this product are not subject to restrictions.
<b>REACH</b> Authorisation - Annex XIV	: The components of this product are not subject to authorization.
15.2. Chemical Safety Assessment	
Chemical Safety Assessment	: It has not been carried out.



# MATERIAL SAFETY DATA SHEET (MSDS)

## **CROTONIC ACID (FOR SYNTHESIS)**

In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008

### DISCLAIMER:

- SUVCHEM Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- SUVCHEM shall not be responsible for any damage resulting from handling or from contact with the above product.
- SUVCHEM provides the information contained herein in good faith but makes no representation as to its
  comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of
  the material by a properly trained person using this product.

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