

# BIOBASED ACETIC ACID

## Safety Data Sheet

Supersedes: 25/06/2026

Revision: 1.5

Revision date: 01/10/2026

### SECTION 1: Identification

#### 1.1 Identification

|                  |                                                                                                                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product form     | : Substance                                                                                                                                                                                     |
| Substance name   | : Acetic Acid                                                                                                                                                                                   |
| CAS No           | : 64-19-7                                                                                                                                                                                       |
| EC/ List No      | : 200-580-7                                                                                                                                                                                     |
| Formula          | : C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>                                                                                                                                                  |
| Molecular weight | : 60.05 g/mol                                                                                                                                                                                   |
| Synonyms         | : Acetic acid, glacial / alcohol of vinegar / carboxylic acid C <sub>2</sub> / ethanoic acid / ethylic acid / methane carboxylic acid / pyroligneous acid / vinegar acid / Biobased Acetic Acid |

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

|                              |                                                                                                                                         |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Use of the substance/mixture | : Chemical intermediate Solvent, Pharmaceutical<br>Agrochemical<br>Food industry: additive<br>Laboratory chemical Photographic chemical |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|

#### 1.3 Details of the supplier of the safety data sheet

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<br>0091 22 22048272 (Monday – Friday - 09.30 hrs to 18.00 hrs) |
|------------------|-----------------------------------------------------------------------------------|

### SECTION 2: Hazard(s) identification

#### GHS classification

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

|                                       |        |
|---------------------------------------|--------|
| Flammable liquids Category 3          | : H226 |
| Skin corrosion/irritation Category 1B | : H314 |

##### 2.2: GHS labeling

#### Hazard pictograms (GHS)



GHS02



GHS05

**Signal word (GHS)** : Danger

#### Hazard statements (GHS)

|      |                                                      |
|------|------------------------------------------------------|
| H226 | : Flammable liquid and vapor.                        |
| H290 | : May be corrosive to metals.                        |
| H314 | : Causes severe skin burns and eye damage.           |
| H318 | : Causes serious eye damage.                         |
| H332 | : Harmful if inhaled.                                |
| H412 | : Harmful to aquatic life with long lasting effects. |

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### Precautionary Statements:

|                    |                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------|
| P210               | : Keep away from heat, sparks, open flames, hot surfaces. - No smoking                                      |
| P242               | : Use only non-sparking tools                                                                               |
| P260               | : Do not breathe mist, vapors, spray                                                                        |
| P280               | : Wear protective clothing, protective gloves, eye protection, face protection.                             |
| P303 + P361 + P353 | : IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower |
| P403 + P235        | : Store in a well-ventilated place. Keep cool                                                               |
| P405               | : Store locked up                                                                                           |
| P501               | : Dispose of contents/container to comply with local, state and federal regulations                         |
| P301 + P330 + P331 | : If swallowed: Rinse mouth. Do not induce vomiting.                                                        |
| P304 + P340        | : If inhaled: Remove victim to fresh air & keep at rest in a position comfortable for breathing.            |
| P305 + P351 + P338 | : In eyes: rinse cautiously with water for several minutes, remove contact lenses, if present               |

### 2.3 Other hazards

Other hazards not contributing to the Classification : None.

### 2.4 Unknown acute toxicity (GHS)

Not applicable.

## SECTION 3: Composition/Information on ingredients

### 3.1 Substance: Mono-constituent

| Name                                       | Product identifier<br>CAS No<br>EC No<br>Index No | Concentration % | GHS classification                                      |
|--------------------------------------------|---------------------------------------------------|-----------------|---------------------------------------------------------|
| Biobased Acetic Acid<br>(Main constituent) | 64-19-7<br>200-580-7<br>607-002-00-6              | ≥99.5           | Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318 |

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 | : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. |
| Inhalation          | : Remove the victim into fresh air. Immediately consult a doctor/medical service.                                                                                                                                                                                    |
| Skin contact        | : Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service.         |
| Eye contact         | : Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist.                                                                                                                                        |

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|                                      |   |                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ingestion                            | : | Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not give activated charcoal. Immediately consult a doctor/medical service. Ingestion of large quantities: immediately to hospital. Do not give chemical antidote. Doctor: gastric lavage is not recommended. |
| Symptoms/injuries after inhalation   | : | Irritation of the respiratory tract and nasal mucous membranes. Coughing.                                                                                                                                                                                                                                                 |
| Symptoms/injuries after skin contact | : | Corrosion of the skin.                                                                                                                                                                                                                                                                                                    |
| Symptoms/injuries after eye contact  | : | Corrosion of the eye tissue. Permanent eye damage.                                                                                                                                                                                                                                                                        |
| Symptoms/injuries after ingestion    | : | Burns to the gastric/intestinal mucosa. Risk of aspiration pneumonia                                                                                                                                                                                                                                                      |
| Chronic symptoms                     | : | On continuous / repeated exposure: Red skin. Slight irritation. Inflammation/damage of the eye tissue. Dry/sore throat. Possible inflammation of the respiratory tract.                                                                                                                                                   |

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

No Data Available.

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

Seek medical assistance.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                                |   |                                                                                  |
|--------------------------------|---|----------------------------------------------------------------------------------|
| Suitable extinguishing media   | : | Water spray. Polyvalent foam. Alcohol-resistant foam. BC powder. Carbon dioxide. |
| Unsuitable extinguishing media | : | No unsuitable extinguishing media known.                                         |

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

|                               |   |                                                                                                                                                                                                                        |
|-------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammable liquid and vapour.  | : | DIRECT FIRE HAZARD. Flammable. Gas/vapor flammable with air within explosion limits. INDIRECT FIRE HAZARD. May be ignited by sparks.                                                                                   |
| Hazardous combustion products | : | DIRECT EXPLOSION HAZARD. Gas/vapour explosive with air within explosion limits. INDIRECT EXPLOSION HAZARD. may be ignited by sparks                                                                                    |
| Reactivity                    | : | On heating: release of corrosive/combustible gases/vapours (acetic acid vapours). Upon combustion: CO and CO <sub>2</sub> are formed. Violent to explosive reaction with many compounds e.g.: with (strong) oxidizers: |

### 5.3 Advice for firefighters

|                                |   |                                                                                                                                                                                                                                                          |
|--------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : | Cool tanks/drums with water spray/remove them into safety location. Do not move the load if exposed to heat. Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it. |
| Protection during firefighting | : | Do not enter fire area without proper protective equipment, including respiratory protection.                                                                                                                                                            |

### 5.4 Additional information

No Data Available.

## SECTION 6: Accidental release measures

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

#### 6.1.1 For non-emergency personnel

|                      |   |                                                                                                         |
|----------------------|---|---------------------------------------------------------------------------------------------------------|
| Protective equipment | : | Gas-tight chemical suit. Corrosion-proof suit. Refer "Material-Handling" to select protective clothing. |
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- Emergency procedures :
- Keep upwind. Mark the danger area. Consider evacuation. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop nearby engines and no smoking. No naked flames or sparks. Use Spark- and explosion-proof appliances and lighting equipment. Keep containers closed.
  - Wash contaminated clothes.

### 6.1.2 For Emergency responders

- Protective equipment :
- Equip cleanup crew with proper protection.
- Emergency procedures :
- Stop leak if safe to do so. Ventilate area.

### 6.2 Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers, water bodies

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

- For containment :
- Contain released substance, transfer (pump) into suitable containers. Use compatible material of containers. Try to reduce evaporation. Measure the concentration of the explosive gas-air mixture. Dilute combustible/toxic gases/vapours with water spray. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills.
- Methods for cleaning up :
- Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/ authorized disposal facility. Wash clothing and equipment after handling.

### 6.4 Reference to other sections

No additional information available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Precautions for safe handling :
- Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Use corrosion proof equipment. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Use spark-/explosionproof appliances and lighting system.
  - Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Keep container tightly closed.
  - Measure the concentration in the air regularly. Work under local exhaust/ventilation. Exhaust gas must be neutralised.
- Hygiene measures :
- Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

- Storage temperature :
- Ambient temperature.
- Heat-ignition :
- KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
- Prohibitions on mixed storage :
- KEEP SUBSTANCE AWAY FROM: combustible materials. oxidizing agents. (strong) bases. metals. alcohols. amines. water/moisture.
- Storage area :
- Store at ambient temperature in a dry and well ventilation place. Store away from incompatible materials. Keep container tightly closed. Keep securely closed when not in use.
- Special rules on packaging :
- SPECIAL REQUIREMENTS: closing. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packaging in solid containers.

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Packaging materials : SUITABLE MATERIAL: aluminium. glass. MATERIAL TO AVOID: steel. iron. zinc. lead. copper. bronze.

### 7.3 Specific end uses

Part 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:

#### Biobased Acetic Acid (64-19-7)

|       |                                         |                                                                                          |
|-------|-----------------------------------------|------------------------------------------------------------------------------------------|
| ACGIH | : ACGIH TWA (ppm)                       | 10 ppm (Acetic acid; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| ACGIH | : ACGIH STEL (ppm)                      | 15 ppm (Acetic acid; USA; Short time value; TLV - Adopted Value)                         |
| OSHA  | : OSHA PEL (TWA) (mg/m <sup>3</sup> )   | 25 mg/m <sup>3</sup>                                                                     |
| OSHA  | : OSHA PEL (TWA) (ppm)                  | 10 ppm                                                                                   |
| IDLH  | : US IDLH (ppm)                         | 50 ppm                                                                                   |
| NIOSH | : NIOSH REL (TWA) (mg/m <sup>3</sup> )  | 25 mg/m <sup>3</sup>                                                                     |
| NIOSH | : NIOSH REL (TWA) (ppm)                 | 10 ppm                                                                                   |
| NIOSH | : NIOSH REL (STEL) (mg/m <sup>3</sup> ) | 37 mg/m <sup>3</sup>                                                                     |
| NIOSH | : NIOSH REL (STEL) (ppm)                | 15 ppm                                                                                   |

### 8.2 Exposure controls

8.2.1 Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Material should be handled safely.

Personal protective equipment :



Protective goggles. Gloves. Protective clothing. Face shield. Gas mask with filter.

Materials for protective clothing : GIVE EXCELLENT RESISTANCE: butyl rubber. polyethylene/ethylene vinyl alcohol. viton. GIVE GOOD RESISTANCE: neoprene. GIVE LESS RESISTANCE: natural rubber. PVC. GIVE POOR RESISTANCE: polyethylene. PVA.

Hand protection : Gloves.

Eye protection : Safety glasses.

Skin and body protection : Head/neck protection. Corrosion-proof clothing.

Respiratory protection : Wear gas mask with filter type A if conc. in air > exposure limit. High vapour/ gas concentration: self-contained respirator.

Thermal hazard protection : None.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                |              |
|----------------|--------------|
| Physical state | : Liquid     |
| Appearance     | : Liquid     |
| Colour         | : Colourless |

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|                                             |                                                           |
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| Odour                                       | : Irritating/pungent odour                                |
| pH                                          | : 2.4 (6 %)                                               |
| Melting point                               | : 16.64 °C                                                |
| Freezing point                              | : No Data Available                                       |
| Initial boiling point/boiling range         | : 117.9 °C                                                |
| Flash Point                                 | : 39 °C (Closed cup)                                      |
| Relative evaporation rate                   | : No Data Available                                       |
| Relative density                            | : 1.0496 (27 °C)                                          |
| Relative vapour density at 20°C             | : 2.1                                                     |
| Specific gravity/ density                   | : 1049 kg/m <sup>3</sup>                                  |
| Molecular mass                              | : 60.05 g/mol                                             |
| Flammability(Solid, Gas)                    | : No Data Available                                       |
| Upper/lower flammability or Explosive limit | : 4 – 19.9 vol %                                          |
| Solubility                                  | : Soluble in water, ethanol, ether, acetone and glycerol. |
| Vapor pressure                              | : No Data Available                                       |
| Vapour density                              | : No Data Available                                       |
| Evaporation Rate                            | : No Data Available                                       |
| Partition coefficient n-octanol/water       | : -0.17 (Experimental value; 20 °C, n-octanol water)      |
| Auto-ignition temperature                   | : 463 °C                                                  |
| Decomposition temperature                   | : No Data Available                                       |
| Viscosity                                   | : 1.168 cSt(Kinematic), 1.056 mPa (25°C )(Dynamic)        |
| Oxidizing properties                        | : No Data Available                                       |

### 9.2 Other information

No data available.

## SECTION 10: Stability and reactivity

|                                                |                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>10.1 Reactivity</b>                         | : On heating: release of corrosive/combustible gases/vapours (acetic acid vapours). Upon combustion: CO and CO <sub>2</sub> are formed. Violent to explosive reaction with many compounds e.g.: with (strong) oxidizers: (increased) risk of fire/explosion. Reacts violently with (some) bases. Reacts with (some) metals: release of highly flammable gases/vapours (hydrogen). |
| <b>10.2 Chemical Stability</b>                 | : Hygroscopic.                                                                                                                                                                                                                                                                                                                                                                    |
| <b>10.3 Possibility of hazardous reactions</b> | : Reacts violently with (some) bases: release of heat.                                                                                                                                                                                                                                                                                                                            |
| <b>10.4 Conditions to avoid</b>                | : Extremely high or low temperatures. Incompatible materials.                                                                                                                                                                                                                                                                                                                     |
| <b>10.5 Incompatible materials</b>             | : May react violently with alkalis. May react with bases, copper, silver, mercury, magnesium, zinc and their alloys.                                                                                                                                                                                                                                                              |
| <b>10.6 Hazardous decomposition products</b>   | : Carbon dioxide. Carbon monoxide.                                                                                                                                                                                                                                                                                                                                                |

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Likely routes of exposure : Inhalation; Skin and eye contact

Acute toxicity : Not classified

#### Biobased Acetic Acid (64-19-7)

LD50 oral toxicity : 3310 mg/kg body weight (Rat )

LD50 dermal toxicity : 1120 mg/kg body weight (Rabbit)

LC50 inhalation toxicity : > 16000ppm, equivalent to > 40 mg/L  
Exposure time: 4 h (Rat)

Skin corrosion/irritation : Causes severe skin burns and eye damage. pH: 2.4 (6 %)

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization : pH: 2.4 (6 %)

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

(Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

### SECTION 12: Ecological information

#### 12.1 Toxicity

Ecology – general : Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

Ecology – air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). Not included in the list of substances which may contribute to the greenhouse effect (Regulation (EC) No 842/2006). TA-Luft Klasse 5.2.5/II.

Ecology – water : Slightly harmful to fishes and invertebrates (Daphnia). Not harmful to algae

#### Biobased Acetic Acid (64-19-7)

|               |   | Toxicity to Fish                                     | Toxicity to aquatic invertebrates | Toxicity to Microorganisms |
|---------------|---|------------------------------------------------------|-----------------------------------|----------------------------|
| Species       | : | Oncorhynchus mykiss (previous name: Salmo gairdneri) | Daphnia magna                     | Pseudomonas putida         |
| Value         | : | >300.82 mg/l                                         | >300.82 mg/l                      | 850mg/l                    |
| Exposure time | : | 96 h                                                 | 48 h                              | 16h                        |

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### 12.2 Persistence and degradability

#### Biobased Acetic Acid (64-19-7)

Persistence and degradability : Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.

### 12.3 Bioaccumulative potential

#### Biobased Acetic Acid (64-19-7)

|                           |   |                                                  |
|---------------------------|---|--------------------------------------------------|
| BCF fish 1                | : | 3.16 (BCF; Pisces)                               |
| Log Pow                   | : | -0.17 (Experimental value; 25 °C)                |
| Bioaccumulative potential | : | Low potential for bioaccumulation (Log Kow < 4). |

### 12.4 Mobility in soil

#### Biobased Acetic Acid (64-19-7)

|                 |   |                                                               |
|-----------------|---|---------------------------------------------------------------|
| Surface tension | : | 0.028 N/m (20 °C)                                             |
| Log Koc         | : | log Koc,0.06; QSAR                                            |
| Ecology - soil  | : | May be harmful to plant growth, blooming and fruit formation. |

No data available

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste disposal recommendations : Remove and dispose of waste in accordance with applicable local and/or national regulations through an authorized waste management or disposal through an authorized waste incineration facility. Do not discharge waste into drains, soil, water bodies, or the environment. Contaminated packaging shall be handled and disposed of in accordance with applicable regulations.

## SECTION 14 : TRANSPORT INFORMATION

### Marine transport (IMDG)

|                                      |   |             |
|--------------------------------------|---|-------------|
| UN number                            | : | UN 2789     |
| Proper shipping name and description | : | Acetic Acid |
| Chemical name                        | : | Acetic Acid |
| Class                                | : | 8 (3)       |
| Packaging group                      | : | II          |
| Hazard Identification Number         | : | 8, 3        |
| EmS code                             | : | F-E, S-C    |
| Marine pollutant                     | : | No          |

### Air transport ICAO/IATA

|                                      |   |             |
|--------------------------------------|---|-------------|
| UN number                            | : | UN 2789     |
| Proper shipping name and description | : | Acetic Acid |
| Chemical name                        | : | Acetic Acid |
| Class                                | : | 8 (3)       |

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Packaging group : II  
Hazard Labels : Corrosive and Flammable liquid  
Environmentally hazardous : No

### Department of Transportation (DOT)

UN number : UN 2789  
Proper shipping name : Acetic Acid with more than 80 percent acid, by mass  
Transport hazard class : 8 - Class 8 - Corrosive material 49 CFR 173.136  
Packing group : II - Medium Danger  
Reportable Quantity (RQ) : 1000 lbs  
Poison Inhalation hazard : No  
Hazard labels :



3 - Flammable liquid



8 – Corrosive

### SECTION 15: Regulatory information

#### 15.1 National regulations

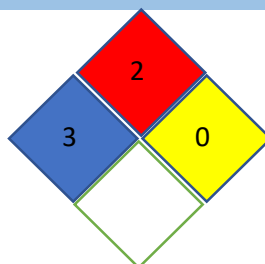
| Country     | National Inventories | Listing |
|-------------|----------------------|---------|
| AUSTRALIA   | AICS                 | Listed  |
| CANADA      | DSL                  | Listed  |
| CHINA       | IECSC                | Listed  |
| EUROPE      | EC                   | Listed  |
| JAPAN       | ENCS                 | Listed  |
| NEWZEALAND  | NZIoC                | Listed  |
| PHILIPPINES | PICCS                | Listed  |
| SOUTH KOREA | KECI                 | Listed  |
| TAIWAN      | TCSI                 | Listed  |
| USA         | TSCA                 | Listed  |

### SECTION 16: Other information

#### 16.1 Hazard Statement

H226 : Flammable liquid and vapor.  
H290 : May be corrosive to metals.  
H314 : Causes severe skin burns and eye damage.  
H318 : Causes serious eye damage.  
H332 : Harmful if inhaled.  
H412 : Harmful to aquatic life with long lasting effects.

#### 16.2 NFPA Rating



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### 16.3 Abbreviations and acronyms

|   |                                                                                             |
|---|---------------------------------------------------------------------------------------------|
| : | PBT =Persistent Bioaccumulative and Toxic                                                   |
|   | vPvB= Very Persistent and Very Bioaccumulative                                              |
|   | 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 Programm                                                            |
|   | 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                                                                  |
|   | 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 .Authorisation and Restriction of Chemicals                |
|   | CLP = Classification, Labelling and Packaging                                               |
|   | LD / LC = Lethal Doses / Lethal Concentration                                               |
|   | GHS = Globally Harmonised System                                                            |
|   | ADR = Accord europeen 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:

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and Godavari Biorefineries Ltd. assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.