SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Date of Revision: 10-January-2018

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name: Dicamba 98% TC
CAS No.: 1918-00-9
EC No.: 217-635-6

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

Recommended Use: Herbicide; Laboratory Chemicals; Manufacture of Substances

1.3. Details of the supplier of the safety data sheet

Supplier Address: Cropnosys India Pvt Ltd
Plot No. 5303, GIDC Estate, Phase IV, District: Valsad
Vapi- 396195, Gujarat, INDIA

Tel No.: Tel: +91 22 652 26797

Email address: info@cropnosysindia.com
Website: www.cropnosysindia.com

1.4. Emergency telephone number

Emergency Telephone: +91 22 652 26797

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

Acute toxicity, oral: Category 4 - (H302)
Serious eye damage or eye irritation: Category 1 - (H318)
Hazardous to the aquatic environment: Category 3 - (H412)

For the full text of the H-Statements mentioned in this Section, see Section 16.
2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

![Hazard pictograms]

Signal Word

Danger

Hazard Statements

- H302 - Harmful if swallowed
- H318 - Causes serious eye-damage
- H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements

- P264 - Wash hands thoroughly after handling
- P270 - Do not eat, drink or smoke when using the product
- P273 - Avoid release to the environment
- P280 - Wear protective gloves/protective clothing/ eye protection/ face protection
- P310 - Immediately call a POISON CENTRE/doctor if you feel unwell.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
- P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

2.3. Other hazards

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

Section 3: COMPOSITION/ INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>EC No</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dicamba 98% Technical*</td>
<td>131860-33-8</td>
<td>217-635-6</td>
<td>Acute Tox, oral 4 (H302) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)</td>
<td>100%</td>
</tr>
</tbody>
</table>

*Synonym: 3,6-Dichloro-α-anisic acid
*Molecular Formula: C₈H₆Cl₂O₃

Substances for which there are Community workplace exposure limits.
For the full text of the H-Statements mentioned in this Section, see Section 16.
Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation
Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately.

Skin Contact
Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting: contains petroleum distillates and/or aromatic solvents.

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

Symptoms
Described in labelling (see section 2.2.) and/or in section 11.

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

Treatment
There is no specific antidote. Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media - large fires Use alcohol-resistant foam or water spray. Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen chloride gas

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4. Further information

No data available
Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2. Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). If the product contaminates rivers and lakes or drains inform respective authorities.

6.4. Reference to other Sections
Refer to protective measures listed in sections 7 and 8. Refer to disposal considerations listed in section 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
No special protective measures against fire required. Avoid contact with skin and eyes. Avoid appropriate exhaust ventilation at places where dust is formed. When using do not eat, drink or smoke. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended Storage Temperature: 2-8 °C

7.3. Specific end use(s)
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
Components with workplace control parameters.

8.2. Exposure controls
Engineering measures Handle in accordance to general industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White to tan or grey crystals or powder</td>
</tr>
<tr>
<td>Odour</td>
<td>Mild sweet odour</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>112-116 °C - lit</td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>&gt; 200 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper/lower flammability or</td>
<td>Not flammable or explosive</td>
</tr>
<tr>
<td>explosive limits</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No applicable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>8.6 x 10^-4 mPa (20 °C); 2 x 10^-3 mPa (25 °C)</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.35 g/cm³ (22.5 °C)</td>
</tr>
<tr>
<td>Water solubility</td>
<td>pH 4 buffer = 14.9g/L; pH7 buffer = 13.8g/L; pH9 buffer = 9.5g/L</td>
</tr>
<tr>
<td>Partition Coefficient n-octanol</td>
<td></td>
</tr>
<tr>
<td>water</td>
<td>pH 4 buffer = 0.4; pH7 buffer = -1.8; pH9 buffer = -2.0</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not oxidizing</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive under use conditions</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

No data available
Section 10: STABILITY AND REACTIVITY

10.1. Reactivity
No information available

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
No information available.

10.4. Conditions to avoid
No information available

10.5. Incompatible materials
Strong oxidizing agents.

10.6. Hazardous decomposition
Hazardous decomposition products formed under fire conditions - Carbon oxides, Hydrogen Chloride gas
Other decomposition products - no data available
In the event of fire - refer section 5

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute oral toxicity
LD50 Oral - Rat - 1,039 mg/kg (Dicamba)
LD50 Dermal - Rabbit -> 2,000 mg/kg (Dicamba)

Skin corrosion/irritation
No data available (Dicamba)

Serious eye damage/eye irritation
No data available (Dicamba)

Respiratory or skin sensitisation
No data available (Dicamba)

Germ cell mutagenicity
Histidine reversion (Ames) (Dicamba)
Rat (Dicamba)
Lymphocyte
Unscheduled DNA synthesis (Dicamba)
Rat DNA damage (Dicamba)
Mouse Cytogenetic analysis

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 (Dicamba)

Specific target organ toxicity
- Single exposure
No data available (Dicamba)
- Repeated exposure
No data available

Aspiration hazard
No data available

Additional information
RTECS: DG7525000
Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Toxicity to fish  
LC50 - Oncorhynchus mykiss (rainbow trout) - 28 mg/l - 96.0 h (Dicamba)

Toxicity to daphnia & other aquatic invertebrates  
EC50 - Daphnia magna (Water flea) - 96.8mg/l - 48.0 h (Dicamba)

12.2. Persistence and degradability
No data available

12.3. Bioaccumulative potential
No data available

12.4. Mobility in soil
No data available (Dicamba)

12.5. PBT and vPvB assessment
PBT and vPvB assessment not available
Chemical safety assessment is not required

12.6. Other adverse effects
Harmful to aquatic life with long lasting effects.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustive solvent and burn in chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

Section 14: TRANSPORT CONSIDERATIONS

ADR/RID/ADN
14.1 UN number 3077
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
14.3 Transport hazard class(es) 9
14.4 Packing group III
14.5 Environmental Hazards Environmentally hazardous

IMDG
14.1 UN number 3077
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
14.3 Transport hazard class(es) 9
14.4 Packing group III
14.5 Environmental Hazards Marine Pollutant

Cropnosys India
IATA
14.1 UN number 3077
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
14.3 Transport hazard class(es) 9
14.4 Packing group III

14.6 Special precautions for user
None

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
No transport in bulk according to the IBC Code.

Section 15: REGULATORY INFORMATION

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

Labeling according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Hazard pictograms

![Pictograms]

Signal word Danger

Hazard Statements
H302 - Harmful if swallowed
H318 - Causes serious eye-damage
H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using the product
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P501 - Dispose of contents/ container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

15.2 Chemical Safety Assessment
A Chemical Safety Assessment is not required for this substance.
Section 16: OTHER INFORMATION

Text of the hazard statements mentioned in Section 3

Further information
Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed
H318 Causes serious eye damage
H412 Harmful to aquatic life with long lasting effects
Acute Tox. Oral 4 Acute toxicity, oral, Category 4
Eye Dam. 1 Serious eye damage or eye irritation, Category 1
Aquatic Chronic 3 Hazardous to the aquatic environment, long term hazard, Category 3

Revision Note
*** - Change from previous version.

The material safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008 [CLP/GUH]

Disclaimer
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet