



# CERTIFICATE

## SAFETY DATA SHEET

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## SECTION 1 - IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

<b>1.1 Product Identifier:</b>	CON-AID.
<b>REACH Registration Number:</b>	This product is a mixture, therefore not subject to the registration requirements under REACH.
<b>1.2 Relevant identified uses of the product and uses advised:</b>	Industrial use.
<b>Relevant identified uses:</b>	Soil stabiliser, dust suppressant and fire suppressant: Motorways, Roads, Airports, Railway lines, Harbours, Housing developments, Agriculture sector, Mining sector, Oil platforms and other applications.
<b>Uses advised against:</b>	Do not use in a concentrate liquid form. Do not apply without the manufacturer's specifications.
<b>1.3 Details of Manufacturer:</b>	Agent CBR Plus Technologies International (Pty) Ltd Plot No. 23 Vieira Street, Amorosa A/H Roodepoort South Africa P O Box 6673 Westgate, 1734, South Africa Email : <a href="mailto:conaid@iafrica.com">conaid@iafrica.com</a> Tel: +27 11 9581308 / Cell: +27 79 507 6007 (24/7) Email: <a href="mailto:fleitao@telkomsa.net">fleitaot@telkomsa.net</a>
<b>1.4 Emergency contacts:</b>	Con-Aid * 92.05.18.
<b>1.5 This document replaces MSDS number:</b>	Date : April 29, 2020.
<b>1.6 Date of preparation of SDS:</b>	

## SECTION 2 – HAZARDS IDENTIFICATION

<b>2.1 Classification of Substance or Mixture:</b>	Classification according to regulation 1272/2008 (CLP) Not a hazardous substance or mixture according to regulation 1272/2008/EC (CLP).
<b>2.2 Label elements:</b>	EC Hazards EUH210 - Safety Data Sheet available upon request. EUH208- Contains Anionic Active Matter. May produce skin and eye sensitization in contact with liquid. This mixture does not meet the criteria for PBT/vPvB according to REACH Annex 13.
<b>2.3 Other Hazards:</b>	May produce skin and eye sensitization in contact with liquid, especially if liquid is allowed to dry out. Observe general precautions when handling chemicals. Observe first aid measures, section 4 of this SDS.
Statements of Hazard	

## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<b>Chemical Characterization:</b>	Organic acid solution in water.
<b>3.1 Substances:</b>	Not applicable
<b>3.2 Mixtures:</b>	See chemical characterization
<b>Components:</b>	
Product Group:	Surfactant.
Component:	Sulphonic Acid Derivatives < 15%
Molecular Weight:	340.
Chemical Formula:	R - SO <sub>3</sub> H where R is a Hydrocarbon.
Cas No:	None known: Compound.
Material/Component:	The main active ingredient is an organic sulphonate.
Hazardous Ingredient:	None known.
% Ratio:	None known
Chemical Name:	The CAS Numbers of all components of this compound appear on the Canadian Domestic Substances List, but not on the

**WHMIS Classification:**
**NFPA Hazard Ratings:**

USEPA Toxic Substances List. This means that the product is not considered toxic or hazardous.

Not Classified.

Fire: None known

Toxicity: None known

Reactivity: None known

Special: None known

## SECTION 4 - FIRST AID MEASURES

### 4.1 Description of First Aid Measures:

General Information:

Inhalation:

Skin:

Eyes:

Ingestion:

Remove soaked clothing, launder and re-use once dry.

None known. Odourless, Neutral.

Rinse skin with plenty fresh water.

Rinse eyes soonest with plenty fresh water for at least 10 minutes retracting eyelids often. Tilt head to prevent product from spilling into intact eye. If sensitization persists after rinsing, seek medical advice.

If swallowed, drink 1 or 2 glasses of fresh water. **Do not** induce vomiting. Seek medical advice, and present this SDS.

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

Main symptoms:

None known.

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

None known. Treat symptomatically, if necessary.

## SECTION 5 - FIREFIGHTING MEASURES

### 5.1 Flammability:

None known. Non-flammable. Assists with fire suppression.

### 5.2 Extinguishing Media:

Suitable Extinguishing media: Use firefighting standard methods e.g. water spray, foam or carbon dioxide.

### 5.3 Special hazards arising from the substance or mixture:

Drums may burst (H229) if heated and may produce sulphur oxide vapors. Vapors not flammable.

### 5.4 Advice for firefighters:

Spilled surface may become slippery. Non-emergency personnel should be kept clear of the area. Do not enter fire area without proper protection including self-contained breathing apparatus if necessary, and protective equipment for firefighters.

### 5.5 Flashpoint (°C):

None known.

### 5.6 Method:

OPEN CUP.

### 5.7 Upper Flammable Limit (% vol.):

None known.

### 5.8 Lower Flammable Limit (% vol.):

None known.

### 5.9 Auto-Ignition Temp. (°C):

None known.

### 5.10 Explosion – Sensitivities to Impact:

None known. None known.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

Product is biodegradable. Surfaces may become slippery.

Non-emergency personnel:

Non-emergency personnel should be kept clear of the area.

Emergency responders:

Spilled surfaces may become slippery. Avoid liquid contact with the skin and the eyes. Wear complete and proper personnel protective equipment as per recommendations of Section 8 of this SDS.

### 6.2 Environmental precautions:

Rinse spilled surfaces with water into sanitary sewers as diluted solution. Solution is no more harmful than water. Diluted solution not harmful to human, animal and plant life. **Alternatively!** Observe guidance on 6.3 below.

### 6.3 Methods and materials for containment and cleaning up:

Dike with suitable absorbent material (e.g. sand or sawdust).  
Clean up and dispose in a suitable waste container.

## SECTION 7 - HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling:

Hygiene measures: Rinse hands before breaks and at the end of the workday. Avoid contact with foodstuffs and drinks. Avoid contact with skin and eyes. Remove soaked clothing and wash before re-use.

### 7.2 Conditions for Safe Storage, including compatibilities:

Store in cool dry normal ventilated location.

Incompatible products or materials:

None known.

Storage Conditions:

Store at temperatures between  $\leq -10^{\circ}\text{C}$  and  $70^{\circ}\text{C}$ . Keep drums tightly closed with the original cap when not in use. Agitate before use.

Technical Measures:

No special technical measures are required.

Storage Class:

Non-combustible liquids.

### 7.3 Specific End Uses:

Soil stabilizer and dust suppression.

## SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

### 8.1 Control Parameters:

#### EC Exposure Limit Values:

No exposure limits established

#### National occupational exposure limits:

DNELs

No exposure limits established

PNECs

None known

Others

None known

Exposure Limit (ACGIH TLV) for Sulphonic Acid 500 ppm in air.

### 8.2 Exposure Controls:

Engineering measures:

Provide local exhaust ventilation - mechanical ventilation (general) not required.

Personal Protective Equipment:

Avoid contact with skin and eyes. Do not allow liquid to dry out.

Hygiene measures:

Rinse hands before breaks and at the end of the workday. Avoid contact with foodstuffs and drinks. Remove soaked clothing and wash before re-use.

Eye protection:

Safety glasses

Hand protection:

Nitrile garden type gloves. Snug fit, water resistant, scratch resistant gloves or chemical resistant gloves.

Suitable materials:

Nitrile palm coating for extra protection and superior grip.

Environmental exposure controls:

Rinse spilled surfaces with water into sanitary sewers as diluted solution. Solution is no more harmful than water. Diluted solution not harmful to human, animal and plant life. **Alternatively!** Observe guidance on 6.3 above.

Environmental precautions:

Rinse spilled surfaces with water into sanitary sewers as diluted solution. Solution is no more harmful than water.

**Respiratory protection:**

Diluted solution not harmful to human, animal and plant life. **Alternatively!** Observe guidance on 6.3 above.

**Respirator type:**

Not applicable

**Thermal hazards:**

Not applicable

Not applicable

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

<b>9.1</b> Appearance:	Clear Red Viscous Liquid
<b>9.2</b> Physical State:	Liquid.
<b>9.3</b> Colour:	Florescent red viscous liquid
<b>9.4</b> Odour:	No Odour.
<b>9.5</b> Solubility in water:	100% water soluble
<b>9.6</b> Vapour Density:	+1,0 (air = 1).
<b>9.7</b> Vapour Pressure:	20 m Hg.
<b>9.8</b> Freezing Point (°C):	< -10 °C
<b>9.10</b> Viscosity:	25°C (centipoise) = 750 (800 ±100)
<b>9.11</b> Boiling Point (°C):	100°C (212 F)
<b>9.12</b> Flashpoint (°C):	None known.
<b>9.13</b> Odour Threshold:	Ambient.
<b>9.14</b> pH:	Diluted 5,8 – 6.1 @ 22.8 °C (R – SO <sub>3</sub> H 2,5ml / 1,000ml H <sub>2</sub> O)
<b>9.15</b> Auto Ignition Temperature:	None known.
<b>9.16</b> Volatile Percentage:	83% by vol.
<b>9.17</b> Evaporation Rate:	As for water.
<b>9.18</b> Flammability:	None known.
<b>9.19</b> Specific Gravity:	25°C = 1,011 (1,011 ±0,005)
<b>9.20</b> Coeff Water/Oil:	100% water soluble
<b>9.21</b> Percent Soluble:	100% soluble @ 20°C.
<b>9.22</b> Others:	Anion active 12% minimum (hyamine method).

## SECTION 10 – STABILITY AND REACTIVITY DATA

<b>10.1</b> Reactivity:	Stable under normal conditions.
<b>10.2</b> Chemical Stability:	Stable under normal conditions.
<b>10.3</b> Possibility of Hazardous Reactions:	None known.
<b>10.4</b> Conditions to avoid:	None known.
<b>10.5</b> Incompatible materials:	Alkalies and oxidising agents.
<b>10.6</b> Hazardous Decomposition Products:	No decomposition if stored and applied as directed.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Information on toxicological effects:

<b>11.1</b> Acute toxicity:	None known. See Section 12 of this SDS.
<b>11.2</b> Carcinogen by NTP:	None known.
<b>11.3</b> OSHA controlled:	None known.
<b>11.4</b> Skin irritation:	Non-irritant. May produce skin and eye sensitization in contact with liquid, especially if liquid is allowed to dry out.
<b>11.5</b> Eye irritation:	Non-irritant. May produce skin and eye sensitization in contact with liquid, especially if liquid is allowed to dry out.
<b>11.6</b> Sensitisation:	Low by test on guinea pigs.
<b>11.7</b> Carcinogenicity:	None known. Non-carcinogenic by SACS hazardous material source.

#### 11.8 Synergistic Products:

None known.

### SECTION 12 – ECOLOGICAL INFORMATION

#### 12.1 Biodegradation:

Product is biodegradable.

#### 12.2 Acute toxicity:

None known, according to the following tests:

- a) EPA, a study evaluated the acute toxicity of the material, CON-AID, and the leachate of soil samples treated with CON-AID to Rainbow trout, Daphnia Magna and Microtox. For the actual concentration of CON-AID (at its normal dilution for application of 0.01 to 3 mg/l) to be used in the field, and the leachate water for all tests proved to be non-toxic.
- b) Argentina, Ministerio de Producción, laboratorio INTI QUIMICA, method: IRAM 29111, utilising Pseudokirchneriella subcapitata, during 72 hours @ 24°C, CI 50 concentración inhibitoria 50, and CON-AID 430 mg/l. The tests proved that CON-AID is not dangerous for aquatic life according to GHS.
- c) Brasil Selo Verde IMPI n. 821814818. The tests proved that CON-AID causes no environmental impact compared to existing products available in the market.
- d) Italy Eurolab RDP N° 13791 del 13/11/2019, compared with lime, CON-AID causes no environmental impact.

### SECTION 13 - DISPOSAL CONSIDERATIONS

#### 13.1 Waste Treatment Methods:

Disposal Methods:

Product is biodegradable. Disposal required in compliance with all waste management in accordance to Federal, State, Provincial and/or Local regulations.

Waste codes/Waste designations:

No data available.

Empty packaging:

Re-usable once rinsed with water.

Uncleaned empty packaging:

Dispose of empty packaging in accordance to Federal, State, Provincial and/or Local regulations.

### SECTION 14 – TRANSPORTATION / SHIPPING INFORMATION

#### 14.1 Special Shipping Info:

None known. None Dangerous Goods.

ADR / RID; ICAO/IATA and IMDG

Not regulated.

### SECTION 15 - REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by those regulations.

#### 15.2 Chemical Safety Assessment:

Not required.

## SECTION 16 - OTHER INFORMATION

**Revision Date:**

29 April 2020

**Other information:**

CON-AID contains no dioxins, furans, known carcinogens or any agent likely to create a pollution problem in the field of use.

**Further information:**

The information provided on this SDS is based on our current state and knowledge. This data does not apply when diluted product is used. The data contained in the SDS is based on data, which is considered to be accurate. However, there is no guarantee or warranty, either expressed or implied of the accuracy or completeness of this information. Any loss incurred during storage, handling, transportation, use or disposal is expressly disclaimed.

**Expiry date:**

No expiry date. Unlimited shelf life

**Note:**

This product safety data applies to the **PRODUCT ONLY**. CON-AID, when diluted for application is **no more harmful than water**.

**Keep away from children. Store in safe place. Use for intended purposes.**



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