

PRODUCT INFORMATION SHEET

BRINE-AID

Revision Date 7/21/16

SECTION 1. IDENTIFICATION

Trade Name BRINE-AID
Manufacturer DCC Solutions, Inc.
5806 Slashwood Lane
Spring, TX 77379
USA
Tel: 775-287-9724
Fax: 832-717-6436
Validation date 7/1/16
EMERGENCY PHONE NUMBER 775-287-9724
Recommended use Used for remediation of sodium-damaged soil.

SECTION 2. HAZARDS IDENTIFICATION

Physical Hazards None
Health Hazards SKIN-Category 2; EYES - Category 2



Skin Irritant
Eye Irritant

WARNING

Can cause skin irritation. Can cause serious eye irritation. Prolonged inhalation of concentrated mist may cause upper respiratory tract irritation. Could be harmful if large amounts are swallowed. Avoid eye or skin contact. Use proper safety equipment. Wash thoroughly after handling.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name
No hazardous ingredients
Additional information CAS numbers: 39368-85-9
Contains water
Also contains a proprietary blend of additives.

SECTION 4. FIRST AID MEASURES

Eye contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use. Clean shoes thoroughly before re-use. Get medical attention immediately.

Inhalation Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Protection of first aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 5. FIRE FIGHTING MEASURES

Flammability of the product	May be combustible at high temperature.
<u>Extinguishing media</u>	
Suitable	Use an extinguishing agent suitable for the surrounding fire.
Products of combustion	These products are nitrogen oxides metal oxide / oxides
Fire fighting media and instructions	Use an extinguishing agent suitable for the surrounding fire.
Special protective equipment for fire fighters	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	Avoid dispersal of undiluted spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air.)
<u>Methods for cleaning up</u>	
Small spill	Stop leak if without risk. Material free from contamination can be used for its original purpose. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows: Contain and collect spillage with non-combustible, absorbent material (e.g., sand, earth, vermiculite or diatomaceous earth) and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: See Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7. HANDLING AND STORAGE

Handling	Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep away from heat and direct sunlight.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before re-using. Ensure eyewash facilities are located close to the working environment.
<u>Personal protection</u>	
Eyes	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles.
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
Respiratory	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. <8 hours (breakthrough time): butyl rubber, natural rubber (latex), nitrile rubber.

Consult local authorities for acceptable exposure limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid. [Clear to slightly hazy liquid.]
Color	Colorless
Odor	Odorless
pH	5.0 Concentrate
Boiling/condensation point	219° Fahrenheit
Melting/freezing point	0 to -10° Fahrenheit
Specific gravity	1.5
Density (lbs/gal)	12.0 (20° Celsius / 68° Fahrenheit)
VOC	0% (w/w)

SECTION 10. STABILITY AND REACTIVITY

Stability and reactivity	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur
Incompatibility with various substances	Reactive or incompatible with the following materials: combustible materials, acids and alkalis.
Hazardous decomposition products	Under normal circumstances of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	Under normal circumstances of storage and use, hazardous polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATIONPotential acute health effects

Inhalation	Slightly irritating to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.			
Ingestion	Harmful if swallowed.			
Skin contact	Slightly irritating to the skin.			
Eye contact	Slightly irritating to the eyes.			

<u>Product / ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>	<u>Exposure</u>
Preparation	LD50 Oral	RAT	>2000 mg/kg	

SECTION 12. ECOLOGICAL INFORMATION

Environmental effects No known significant effects or critical hazards.

Aquatic ecotoxicity

<u>Product / ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Species</u>	<u>Exposure</u>
Preparation		Acute LC50>100 mg/L	Fish	96 hours

Conclusion / Summary Not available

Biodegradability

Conclusion / Summary Most inorganic compounds are not biodegradable. The product does not show any bioaccumulation phenomena.

Toxicity of the products of biodegradation The product itself and its products of degradation are not toxic.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residue. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should, at all times, comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of undiluted spilled material and run-off and contact with soil, waterways, drains and sewers.

Consult your local or regional authorities.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION for additional handling information and protection of employees.

SECTION 14. TRANSPORT INFORMATION

Regulatory information	UN number
DOT classification	Not regulated
TDG Classification	Not regulated
Mexico Classification	Not regulated

SECTION 15. REGULATORY INFORMATION

HCS Classification	Not regulated		
U.S. Federal regulations	United States Inventory (TSCA 8b): All components are listed or exempted. SARA 302/304/311/312 extremely hazardous substances: No products found. SARA 302/304 emergency planning and notification: No products found. SARA 302/304/311/312 hazardous chemicals: calcium nitrate SARA 311/312 MSDS distribution - chemical inventory - hazard identification calcium nitrate: Fire hazard. Clean Water Act (CWA) 307: No products found. Clean Water Act (CWA) 311: No products found Clean Air Act (CAA) 112 accidental release prevention: No products found. Clean Air Act (CAA) 112 regulated flammable substances: No products found.		
Clean Air Act Section 112(b)			
Hazardous Air Pollutants (HAPs)	Not listed		
Clean Air Act Section 602			
Class I Substances	Not listed		
Clean Air Act Section 602			
Class II Substances	Not listed		
DEA List I Chemicals			
(Precursor Chemicals)	Not listed		
DEA LIST II Chemicals			
(Essential Chemicals)	Not listed		
Clean Air Act (CAA) 112			
Regulated toxic substances	No products found		
<u>SARA 313</u>			
	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
Form R - Reporting requirements	Calcium nitrate	10124-37-5	49.8
Supplier notification	Calcium nitrate	10124-37-5	49.8
	SARA 313 notifications must not be detached from this MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.		
State regulations	Connecticut Carcinogen Reporting: None of the components are listed. Connecticut Hazardous Material Survey: None of the components are listed. Florida substances: None of the components are listed. Illinois Chemical Safety Act: None of the components are listed. Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed. Louisiana Reporting: None of the components are listed. Louisiana Spill: None of the components are listed. Massachusetts Spill: None of the components are listed. Massachusetts Substances: None of the components are listed. Michigan Critical Material: None of the components are listed. Minnesota Hazardous Substances: None of the components are listed. New Jersey Hazardous Substances: The following components are listed: calcium nitrate. New Jersey Spill: None of the components are listed.		

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.

New York Acutely Hazardous Substances: None of the components are listed.

New York Toxic Chemical Release Reporting: None of the components are listed.

Pennsylvania RTK Hazardous Substances: None of the components are listed.

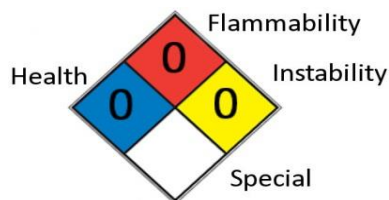
Rhode Island Hazardous Substances: None of the components are listed.

United States Inventory
(TSCA 8b)

All components are listed or exempted.

SECTION 16. OTHER INFORMATION

National Fire Protection
Association (U.S.A.)



References

European Chemical Bureau, Annex 1 EU Directive 67/548/EEC

National Institute for Occupational Safety and Health, U.S. Dept of Health, Education and Welfare, Reports and Memoranda

Registry of Toxic Effects of Chemical Substances

Atrion International Inc. 4777 Levy St., St. Laurent, Quebec HAR 2P9, Canada

Date of issue

7/1/2016

Notice to reader

To the best of our knowledge, the information provided in this Product Information Sheet is accurate at the date of its issue.

The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may represent unknown hazards and should be used with caution. DCC Solutions disclaims any liability for loss or damage resulting from the use of any data, information or recommendations set out in this Product Information Sheet.