SAFETY DATA SHEET

Dakota AG Innovations, LLC

SDS No.: 99300D
Date Created: February 9, 2017
Supercedes: None

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: **Cement Remover HD SUPER Concentrate**
General Use: **Cement, Calcium, and Lime Scale Remover**
Product Description: **Blue Liquid**

MANUFACTURER
Dakota Ag Innovations, LLC
40690 253rd Street
Mitchell, South Dakota 57301

EMERGENCY TELEPHONE NUMBER:
(800)-424-9300 CHEMTREC USA & CANADA
+1(703)-741-5970 CHEMTREC INTERNATIONAL

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

GHS CLASSIFICATION OF SUBSTANCE

Flammable Liquid	Not Rated Under GHS
Aspiration Toxicity	Not Rated Under GHS
Skin Irritation	Category 3
Eye Irritation	Category 2B
Carcinogenicity	Not Rated Under GHS
Specific Organ Toxicity Repeated Exposure	Not Rated Under GHS
Specific Organ Toxicity Single Exposure	Not Rated Under GHS
Reproductive Toxicity	Not Rated Under GHS
Acute Toxicity	Not Rated Under GHS
Germ Cell mutagenicity	Not Rated Under GHS
Hazardous to the aquatic environment	Not Rated Under GHS

Hazard Category - means the division of criteria within each hazard class, e.g. acute toxicity includes five hazard categories and flammable liquids include four hazard categories. These categories compare hazard severity within hazard class. "GHS Classification of Substance" means the material hazard class under that particular category and should not be taken as a comparison of hazard categories more generally. Degree of severity under GHS is "1" being the most severe and sequential numbers indicating correspondingly less severity. "Not Classified Under GHS" doe not have characteristics that fall into any of the categories for that hazard class.

GHS LABEL ELEMENTS

Symbol - No applicable symbol

Signal Word - **WARNING**

Hazard Statements
H316 - Causes mild skin irritation
H320 - Causes eye irritation

Precautionary Statements

General:

P101-If medical advice is needed, have product container or label at hand.

P103-Read label before use.

Prevention:

P264 - Wash hands thoroughly after handling.

Response:

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

Storage/Disposal:

P403+235+404-Store in well-ventilated place. Keep cool. Store in closed container.

P501-Dispose of contents/container in accordance with local/regional/federal regulations.

UN GHS According to the Globally Harmonized Standard for Classification and Labeling (GHS), this product is considered hazardous based on potential for eye irritation with direct contact with the concentrated liquid product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	wt%	CAS Registry #
Salt Complex	12 - 15	Mixed
Urea Monohydrochloride	10 - 15	506-89-8
Alcohols, C9-11 ethoxylated, < 2.5 EO	1 - 3	68439-46-3
Organic Acid Mixture	1 - 6	Mixed
Mineral Acids	<1	7664-38-2, 7647-01-0

balance is water and components at <1%

4. FIRST AID MEASURES

INHALATION:

Remove to fresh air and keep at rest in a comfortable position. Get medical attention if symptoms persist after moving to fresh air. Give oxygen if available, symptoms persist, and medical attention is not immediate.

EYE CONTACT:

Remove contact lens (if present). Rinse eyes immediately with plenty of clean water for at least 15 minutes.
If necessary, gently hold the eyelid open during the flush. If eye irritation persists, seek medical attention.

SKIN CONTACT:

Wash skin with mild soap solution to remove material. Product is acidic and can irritate skin with prolonged contact. Wash immediately with mild soap and water to remove from skin.

INGESTION:

Ingestion is not a likely route of entry if used in accordance with manufacturer's instructions. If ingestion occurs, seek immediate medical attention as acidity may cause gastrointestinal distress.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not Applicable
Flammable Limits: Not Applicable
Autoignition Temperature: Not Applicable

GENERAL HAZARD:
Product is water based and not likely to contribute to a fire.

FIRE FIGHTING INSTRUCTIONS:
Water fog or fine spray; dry chemical fire extinguishers; carbon dioxide fire extinguishers; foam; alcohol resistant foams (ATC type). Use water fog or fine spray for cooling exposed containers to control heating.

FIRE FIGHTING EQUIPMENT:
In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. For small outdoor fires, which may be easily extinguished with a portable fire extinguisher, use of protective equipment is generally unnecessary.

FURTHER INFORMATION:
During a fire, hot liquid presents a splash and irritating burn hazard.

HAZARDOUS COMBUSTION PRODUCTS:
Carbon monoxide, carbon dioxide, and some organics depending on the heat of the fire.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL RESPONSE:
Absorb small spills with inert material such as sand or earth. Containerize waste material. Dike large spills to contain the area of the spill. Use clean up procedures that minimize contamination to earth or water bodies.

WATER SPILL:
Material is water based and is expected to mix immediately with the water body. Collection will be difficult but restrict transfer to the localized spill area in the case of a large spill (many gallons) by diking or other means as this product is aquatically toxic.

RECOMMENDED DISPOSAL:
Disposal options may be dictated by other materials mixed with this material. Dispose of in accordance with local, state, and federal regulations using methods which consider recycling/reclamation.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE: Ambient **STORAGE PRESSURE:** Atmospheric

GENERAL:
Keep the container tightly closed. Store in a dry, cool, and well-ventilated place away from incompatible materials such as oxidizing agents and bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200 and other agencies)

	EXPOSURE LIMITS 8 hrs TWA (ppm)				
Component	OSHA PEL	ACGIH TLV	NIOSH REL	AIHA WEEL	Other
Urea Monohydrochloride	None Established	None Established	None Established	None Established	
Alcohols, C9-11 ethoxylated	None Established	None Established	None Established	None Established	
Organic Acids	None Established	None Established	None Established	None Established	
Hydrogen Chloride	7 mg/m3	2.98 mg/m^3	7 mg/m3	None Established	3 mg/m^3 (DFG DAK)

DFG MAK - Federal Republic of Germany Maximum Concentration Values at the Workplace

ENGINEERING CONTROLS:
Provide adequate general and local exhaust ventilation to maintain exposure below established exposure limits. Provide eyewash stations and safety showers in locations available to material users. Provide hand washing facilities for routine use by personnel using the material.

PERSONAL PROTECTION:
Splash goggles and apron should be worn when pouring this material to avoid contact with the liquid. Hand protection is recommended when there is possible direct contact with the liquid. Glove choice should be appropriate for acidic blend and the specific activity being performed. NOTE: nitrile gloves are a general purpose glove available in a wide variety of thicknesses and protect against most chemicals. Respiratory protection should be appropriate for exposure and utilized if ventilation cannot be established to adequately maintain exposure within exposure limits such as might occur when cleaning up spills.

EXPOSURE EVALUATION:
This product in concentrated form is not expected to create a respiratory hazard other than as a mist. Primary hazard is direct contact with skin and eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	Not Available	**Vapor Density:**	Not Available
Specific Gravity:	approx. 1.1 gm/cc	**Evaporation Rate:**	No Available
Solubility in Water:	Miscible with water	**Freezing Point:**	Not Available
		Odor:	Citrus
pH:	2.5	**Appearance:**	Blue
Boiling Point:	Not Available	**Physical State:**	Liquid

Viscosity:	Not Available	**Flammable Range:**	Not Applicable
Flash Point:	Not Applicable	**VOC content:**	Low

10. STABILITY AND REACTIVITY

GENERAL:
No dangerous reactions known under normal use conditions.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:
Will produce heat if concentrated product is mixed with strong bases. Do not mix with strong oxidizers or solvents.

HAZARDOUS DECOMPOSITION:
Decomposition products are expected to be less hazardous than the product, itself.

11. TOXICOLOGICAL INFORMATION

TOXICITY TO ANIMALS:

Component	Acute Test	Value	Species
Urea monohydrochloride	LD50 oral	1121 mg/kg	rat
2-hydroxypropanoic acid	LD50 oral	4875 mg/kg	mouse
2-hydroxypropanoic acid	LD50 oral	3543 mg/kg	rat
2-hydroxypropanoic acid	LD50 skin	>2 gm/kg	rabbit
2-hydroxypropanoic acid	Draize test-eye	750 ug - severe	rabbit
2-hydroxypropanoic acid	Draize test-skin	5 mg/24h - severe	rabbit

ROUTES OF ENTRY:
Primary routes of entry are skin and eyes. Volatile components are not of sufficient concentration for vapor to be an inhalation hazard. A mist will present an inhalation hazard irritating to respiratory tissue.

CHRONIC EFFECTS ON HUMANS:
Not expected to have chronic effects on humans.

Eyes:
Concentrated liquid is irritating to the eyes. Not expected to result in eye damage if eyes are washed out promptly.

Skin:
Irritating to the skin but not expected to have long lasting effects on the skin unless left in place for long periods of time.

Ingestion:
Not an expected route of exposure. Large quantities of the acidic material may cause digestive issues.

Inhalation:

Not an important route of exposure unless introduced as a mist. Product is acidic and will be irritating to the respiratory system in mist form. Vapor is not expected to be appreciable based on low concentration of volatile components.

12. ECOLOGICAL INFORMATION

Species	Test Information	Concentration	Component
No data available			

PRODUCTS OF BIODEGRADATION:
Product is expected to readily biodegrade with products of biodegradation expected to be less toxic than the product, itself. Large volume of spilled material in a water body may temporarily alter pH.

13. DISPOSAL CONSIDERATIONS

Dispose of any waste in compliance with local, state, and federal regulations. Determine EPA RCRA waste categorization at the time of disposal as mixing with other materials may change its categorization. Containers may contain residue that needs to be addressed at time of disposal. Recycling containers needs to address any remaining residues.

14. TRANSPORT INFORMATION

The following proper shipping name, hazard class and packing group are in accordance to 49 CFR Department of Transportation (U.S. DOT) regulatory requirements from 172.101 Hazardous Materials Table

49 CFR Shipping Information	Cement Remover HD SUPER
Symbols	"G" - identifies proper shipping names for which one or more technical names of the hazardous material must be entered in parantheses, in association with the basic description. See 172.203(k).
UN Number	Not Regulated
Proper Shipping Name	
Hazard Class	
Packing Group	
Label Codes	
Special Provisions (172.102)	
Packaging - Exceptions	
Packaging - Nonbulk	

Packaging - bulk	
Quantity Limitations - Passenger aircraft/rail	
Quantity Limitations - Cargo aircraft only	
Vessel stowage - Location	
Vessel stowage - Other	

15. REGULATORY INFORMATION

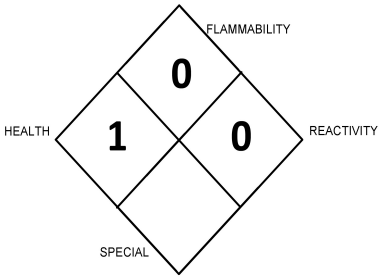
Chemical Inventory Status
Ingredients listed on: TSCA, DSL, Japan, and EC inventories.

SARA Section 302 - Emergency Planning Notification - None
SARA Section 304 - Emergency Release Notification - None
SARA 311/312 - Hazard categories for SARA Section 311/312 Reporting -
CERCLA - Hazardous Substance -
RCRA Hazardous Waste Classification - None

California Proposition 65:
Ethylene oxide may be a trace contaminant in an ingredient. Ethylene oxide is on the Prop 65 chemical list.
No other known components are on the CA Prop 65 list.

16. OTHER INFORMATION

UNITED STATES NATIONAL FIRE PROTECTION ASSOCIATION (U.S. NFPA)
NFPA 704 "fire diamond" is used by emergency personnel to quickly identify the risks posed by the material during response to a fire or a spill or other unusual event.



NFPA rating explanation as applied to

FLAMMABILITY 0 - Materials that will not burn under typical fire conditions. Materials will not burn in air when exposed to a temperature of 1500 F/820 C for a period of 5 minutes.

HEALTH 1 - Exposure would cause irritation with only minor residual injury.

REACTIVITY 0 - Normally stable, even under fire exposure conditions, an not reactive with water.

SPECIAL - contains special symbols applicable to the material. In this case there are no applicable special conditions.

CREATION/REVISION SUMMARY:
Created on:

Cheryl Sykora, CIH, CSP,CHMM
Registered Specialist, SDS and Label Authoring #118534
LEGEND TECHNICAL SERVICES, INC.
88 Empire Drive, Saint Paul, Minnesota 55103
651-221-4085

#118534 SDS and Label Authoring
AIHA Registry Programs®

THE INFORMATION RELATES TO THIS SPECIFIC INFORMATION. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.