



SAFETY DATA SHEET

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 SDS No. 8002
 Date Created: January 4, 2019
 Supersedes: January 15, 2014

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Dakota Prep Concentrate
General Use: Finish Restoration
Product Description: Green, Opaque Liquid

MANUFACTURER

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

EMERGENCY TELEPHONE NUMBER:

1-800-424-9300 CHEMTREC

2. HAZARD IDENTIFICATION

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

Component	EXPOSURE LIMITS 8 hrs TWA (ppm)		
	OSHA PEL	ACGIH TLV	NIOSH REL
Deionized Water	NE	NE	NE
Tetrahydrofuran	200 ppm	50 ppm	200 ppm
Alcohol	NE	NE	NE
Surfactant	NE	NE	NE
Sodium Silicate	NE	NE	NE
Sodium Xylene Sulfonate	NE	NE	NE
Ethoxylated Alcohols	NE	NE	NE

NE - None Established

EMERGENCY OVERVIEW

GHS CLASSIFICATION OF SUBSTANCE

Flammable	Not Applicable
Aspiration Toxicity	Not Applicable
Skin Irritation	Category 2
Eye Irritation	Category 2A
Carcinogenicity	Not Rated
Specific Organ Toxicity Repeated Exp.	Not Rated
Specific Organ Toxicity Single Exp.	Not Rated
Reproductive Toxicity	Not Rated
Acute Toxicity	Not Rated
Germ Cell mutagenicity	Not Rated
Hazardous to the aquatic env.	Category 3 - Acute; Not Rated - Chronic

GHS LABEL ELEMENTS**Signal Word - WARNING****Hazard Statement - Causes skin Irritation; Causes serious eye irritation**

Hazard Statements H315+H320 - Causes skin and eye irritation
H402 - Harmful to aquatic life

Precautionary Statements

Prevention: P101-If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read label before use.
P273 - Avoid release to the environment.
P264 - Wash hands thoroughly after handling.

Response: P332+313 - If skin irritation occurs: get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.

Storage/Disposal: P501 - Dispose of contents/container in accordance with regulatory requirements

UN GHS

ACCORDING TO THE GLOBALLY HARMONIZED STANDARD FOR CLASSIFICATION AND LABELING (GHS) THIS PRODUCT IS CONSIDERED IRRITATING TO EYES AND SKIN BASED ON ALKALINITY

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>wt%</u>	<u>CAS Registry #</u>
Deionized Water	>90	7732-18-5
Alcohol	<5	Mixture
Tetrahydrofuran	<0.1	109-99-9
Surfactant	<1	Mixture
Sodium Silicate	<1	6834-92-0
Sodium Xylene Sulfonate	<0.1	1300-72-7
Ethoxylated Alcohols	<2	Mixture

4. FIRST AID MEASURES**INHALATION:**

Allow the victim to rest in a well-ventilated area. Seek immediate medical attention if symptoms persist. This is an unlikely route of exposure based on low amount of volatile components unless product is used in a manner to produce a mist.

EYE CONTACT:

Material contains surfactant and is alkaline. Alkaline materials can be damaging to the eye if not washed out immediately. Flush eyes with plenty of water for at least 15 minutes occasionally lifting the upper and lower eyelids. Check for and remove contact lenses. See medical attention if irritation persists.

SKIN CONTACT:

Material contains a surfactant. Frequent direct contact with concentrated material can result in drying of the skin. Normal use of skin care products should alleviate the dryness. If skin does not improve after application of skin care products, seek medical attention.

INGESTION:

If concentrated product is ingested, seek medical attention. Product is alkaline and may result in gastrointestinal tract irritation.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: >200 F
Flammable Limits: Not Applicable
Autoignition Temperature: Not Applicable

GENERAL HAZARD:

Product is water-based and not likely to support combustion.

FIRE FIGHTING INSTRUCTIONS:

Product is water-based and is not likely to support combustion. If involved in a fire, heating may volatilize some of the organic components like tetrahydrofurfuryl alcohol. As with any 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.

FIRE FIGHTING EQUIPMENT:

Fire fighting equipment routinely used for fire fighting can be used with this material.

FURTHER INFORMATION:

None

HAZARDOUS COMBUSTION PRODUCTS:

carbon monoxide and carbon dioxide

6. ACCIDENTAL RELEASE MEASURES**LAND SPILL RESPONSE:**

Product is miscible with water and small spills will soak into the land before attempts are made to collect the spill. If spill occurs on impermeable surface, the spill can be absorbed with an absorbent media. Unless mixed with something meeting the regulatory definition of a hazardous waste, the spilled material can be disposed of as regular waste material.

WATER SPILL:

Product is water based and spilled material will mix with water immediately. Product contains surfactants that are toxic to aquatic organisms. Avoid using the product in a location where there is a possibility of introducing it into a water body.

RECOMMENDED DISPOSAL:

This product is defined as a RCRA hazardous waste based on pH. Neutralization and sewerage may be a disposal option depending on the quantity to be disposed of and municipal wastewater disposal regulations.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE: Ambient

STORAGE PRESSURE: Atmospheric

GENERAL:

- (1) Keep container closed when not in use.
- (2) Follow all SDS/label warnings. Empty container is not expected to present a hazard.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)**

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Ethoxylated Alcohols	NE	NE	NE

NE - None Established

ENGINEERING CONTROLS:

Provide eyewash and hand washing facilities. Product does not contain sufficient volatile components to suggest the need for local exhaust ventilation.

PERSONAL PROTECTION:

Safety glasses and impermeable gloves are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	similar to water	Vapor Density:	Unknown
Specific Gravity:	approx. 1.0	Evaporation Rate:	similar to water
Solubility in Water:	100%	Freezing Point:	similar to water
pH:	12.6	Odor:	Fragrant
Boiling Point:	similar to water	Appearance:	Opaque green
Viscosity:	Unknown	Physical State:	Liquid
Flash Point:	>200 F	Flammable Range:	Not Applicable

10. STABILITY AND REACTIVITY**GENERAL:**

Stable under normal conditions.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Mixing with acid may generate some heat

HAZARDOUS DECOMPOSITION:

None

11. TOXICOLOGICAL INFORMATION**TOXICITY TO ANIMALS:**

<u>Component</u>	<u>Acute Test</u>	<u>Value</u>	<u>Species</u>
Tetrahydrofuran	LD50 Oral	1650 mg/kg	Rat
Tetrahydrofuran	LC50 - 3H	37,800 ppm	Rat
Ethoxylated Alcohols	LD50 Oral	5,300 mg/kg	Rat
Ethoxylated Alcohols	skin irritation	No skin irritation	Rabbit
Ethoxylated Alcohols	eye irritation	No eye irritation	Rabbit
Sodium Silicate	LD50 Oral Dermal	4640 mg/kg	Rabbit

ROUTES OF ENTRY: Skin contact or accidental ingestion.

CHRONIC EFFECTS ON HUMANS:

Eyes:

Product is alkaline; failure to wash from eyes could result in eye damage

Skin:

Chronic skin exposure may cause contact dermatitis

Ingestion:

None known. Not expected to have significant long term effects.

Inhalation:

Contents not sufficiently volatile to be a significant route of exposure.

12. ECOLOGICAL INFORMATION

Species	Test Information	concentration	Stat Sig Level	compound
Danio rerio (zebra fish)	LC50- 96H	1.0 mg/L	toxic to aquatic	Ethoxylated Alcohols
Rasbora heteromorpha	LC50-48H	3,400 mg/L	Not acutely toxic	alcohol
Selenastrum capricornutum (algae)	EC50-21day	30 mg/l	91% inhibition of growth	Surfactant
Fathead minnow	LC50- 24H	0.8 to 17 mg/l		Surfactant

Product has aquatic toxicity.

PRODUCTS OF BIODEGRADATION:

Less toxic than the product. Components are generally rapidly biodegradable.

13. DISPOSAL CONSIDERATIONS

This product is defined as a RCRA hazardous waste based on pH. Neutralization and sewerage may be a disposal option depending on the quantity to be disposed of and municipal wastewater disposal regulations.

14. TRANSPORT INFORMATION

The following proper shipping name, hazard class and packing group are in accordance to transportation regulations.

Mode of Transportation	Domestic Surface (USDOT)	Water (IMDG)	International Air (IATA)
UN Number	Not Regulated		
Proper Shipping Name	NA		
Hazard Class	NA		
Packing Group			
Hazard Label			
Handling Label(s)			
ERG#:			
Packaging Instructions:			

15. REGULATORY INFORMATION

Chemical Inventory Status

All components of this product are listed on or exempt from the following inventories: TSCA (United States), DSL (Canada), AICS (Australia), IECSC (China)

Section 313 Toxic Chemicals: None

California Proposition 65:

No components listed

16. OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION

Health: 1
Fire: 0
Reactivity: 0

CREATION/REVISION SUMMARY:

Reviewed on January 4, 2019

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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.