

SAFETY DATA SHEET



SDS No.: 19118003
 Revision: October 28, 2019
 Date Created: January 15, 2014

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Dakota Shine
General Use: Finish Restoration
Product Description: Flammable Liquid

MANUFACTURER

Dakota Ag Innovations, LLC
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 Mitchell, South Dakota 57301
 605-996-7800

EMERGENCY TELEPHONE NUMBER:

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2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

GHS CLASSIFICATION OF SUBSTANCE

Flammable Liquid	Category 2 flammable liquid
Aspiration Toxicity	Category 1
Skin Corrosion/Irritation	Category 3
Eye Corrosion/Irritation	Not Rated Under GHS
Carcinogenicity	Not Rated Under GHS
Specific Organ Toxicity Repeated Exposure	Category 1 - CNS system
Specific Organ Toxicity Single Exposure	Category 1 - CNS system
Reproductive Toxicity	Not Rated Under GHS
Acute Toxicity	Category 5
Germ Cell mutagenicity	Not Rated Under GHS
Corrosive to Metals	Not Rated Under GHS
Hazardous to the aquatic environment	See Section 14

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 a 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" does not have characteristics that fall into any of the categories for that hazard class.

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GHS LABEL ELEMENTS



DANGER

Hazard Statements

- H225 - Highly flammable liquid and vapour
- H242 - Heating may cause a fire
- H304 - May be fatal if swallowed and enters airways
- H315 - Causes skin irritation
- H333 - May be harmful if inhaled
- H336 - May cause drowsiness or dizziness
- H373 - May cause damage to the CNS system through prolonged or repeated exposure
- H402 - Harmful to aquatic life

Precautionary Statements

General:

- 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.

Prevention:

- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P211 - Do not spray on an open flame or other ignition source.
- P233 - Keep container tightly closed.
- P261 - Avoid breathing vapors

Response:

- P301+331 - If swallowed, seek medical attention. Do not induce vomiting!
- P302 - If on skin, wash with neutral soap
- P304 - If inhaled, remove victim to fresh air.
- P305+338+351 - If in eyes, rinse eyes for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P370+P378 - In case of fire: use fire extinguishing media suitable for hydrocarbon fires.

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

This product is considered hazardous based on flammability and aspiration hazard and damage to CNS system with long term high exposure

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>wt%</u>	<u>CAS Registry #</u>
Acetone	20 - 25	67-64-1
1-Methyl-2-Pyrrolidinone, 2,2'-Bipyridine Mixture	<1	Mixed
Epon Resin	<1	25036-25-3
Metallic 2-Ethylhexanoic Acids Mix	1 - 5	Mixed
Solvent Naphtha (Petroleum), Medium aliphatic	2 - 7	64742-88-7
Propylene Glycol Monomethyl Ether Acetate	8 - 15	108-65-6
Parachlorobenzotrifluoride	33 - 50	98-56-6
2-Hydroxy-4-n-octoxybenzophenone	<1	1843-05-6
Natural oil copolymer	8 - 15	68213-53-6

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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. Seek medical attention following initial eye washing. Product is caustic and irreversible eye damage can occur if material is not successfully removed from the eyes.

SKIN CONTACT:

Immediately wash skin with mild soap solution to remove material from skin. Remove affected clothing and launder prior to re-use. If skin damage occurs other than redness, seek medical attention and provide this SDS to attending medical personnel.

INGESTION:

Ingestion is not a likely route of exposure based on commercial product use. If ingestion occurs, seek immediate medical attention. Do not induce vomiting or give anything but water by mouth without being directed to do so by POISON CONTROL or attending medical personnel.

5. FIRE FIGHTING MEASURES

Flashpoint and Method:	70 F (ASTMD93 Pensky Marten Closed Cup)
Flammable Limits:	Not Determined
Autoignition Temperature:	Not Determined

GENERAL HAZARD:

Product contains flammable solvents. Use of this product near any ignition source can cause a flash fire.

FIRE FIGHTING INSTRUCTIONS:

Suitable extinguishing media include: carbon dioxide or dry chemical or other media suitable for hydrocarbon fires. Unsuitable extinguishing media include: water spray. However, if water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible explosion when exposed to extreme heat.

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 any SCBA may not be necessary.

FURTHER INFORMATION:

During a fire, smoke may contain the original material in addition to combustion products which might be more irritating. Residue remaining following a fire needs to be evaluated for disposal options.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon monoxide, carbon dioxide, and organics such as aldehydes depending on the heat of the fire.

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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. Materials saturated with this material may spontaneously combust. Do not use combustible materials to absorb spilled material.

WATER SPILL:

Isolate water spill with booms. Remove from water surface by skimming with suitable absorbents. Expected container size makes sizable water spills unlikely.

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. Product "as is" is a hazardous waste based on ignitability.

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, reducing agents, alkalis, and acids. Preferable storage is in a location designed for liquids with secondary spill containment away from heat, sparks, or flames. Remaining residue in empty containers may present a fire hazard. Avoid breathing mist or vapor.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200 and other agencies)

Component	EXPOSURE LIMITS 8 hrs TWA (ppm)				
	OSHA PEL	ACGIH TLV	NIOSH REL	AIHA WEEL	Other
Acetone	1000 ppm	500 ppm	250 ppm		
1-Methyl-2-Pyrrolidinone; 2,2'-Bipyridine	None Established	None Established	None Established		
Solvent Naphtha (Petroleum), Medium Aliphatic	500 ppm	None Established	87.5 ppm		
Propylene Glycol Monomethyl Ether Acetate	None Established	None Established	100 ppm		
Parachlorobenzotrifluoride	None Established	None Established	None Established		25 ppm ¹

¹-supplier suggested exposure limit

ENGINEERING CONTROLS:

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

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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 the chemical 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 solvent 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:

Exposures depend on activities being performed and the ventilation in the area. Components in the product are volatile and will evaporate into the air during use.

Personal exposure monitoring can be performed by the employer to determine his/her employee exposures to the product during routine use at the facility. It is beyond the responsibility of the product supplier to estimate/determine airborne exposure in a user's facility.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	Not Determined	Vapor Density:	Heavier than air
Specific Gravity:	approx. 0.9	Evaporation Rate:	Not Determined
Solubility in Water:	Negligible	Freezing Point:	Not Determined
		Odor:	solvent
pH:	NA	Appearance:	Clear amber
Boiling Point:	Not Determined	Physical State:	Liquid
Viscosity:	Not Determined	Flammable Range:	Not Determined
Flash Point:	70 F (ASTM D93 Pensky Martins)	VOC content:	Not Determined

10. STABILITY AND REACTIVITY

GENERAL:

No dangerous reactions known under normal use conditions.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong acids and strong oxidizers

HAZARDOUS DECOMPOSITION:

None

11. TOXICOLOGICAL INFORMATION

TOXICITY TO ANIMALS:

<u>Component</u>	<u>Acute Test</u>	<u>Value</u>	<u>Species</u>
Solvent Naphtha (petroleum), medium aliphatic	LD50 Oral	>5000 mg/kg	Rat
Solvent Naphtha (petroleum), medium aliphatic	LD50 Dermal	3000 mg/kg	Rabbit

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Solvent Naphtha (petroleum), medium aliphatic	LC50 inhalation	>5,280 mg/m ³ -4h	Rat
Parachlorobenzotrifluoride	LD50 oral	>6800 mg/kg	Rat
Parachlorobenzotrifluoride	LD50 Dermal	>2,700 mg/kg	Rabbit
Parachlorobenzotrifluoride	LC50 inhalation	>4490 ppm	Rat
Acetone	LD50 oral	5800 mg/kg	Rat
Acetone	LD50 Dermal	>15800 mg/kg	Rabbit
Acetone	LC50 inhalation	76,000 mg/m ³ -4h	Rat
Propylene Glycol Monomethyl Ether Acetate	LD50 oral	8,532 mg/kg	Rat
Propylene Glycol Monomethyl Ether Acetate	LD50 dermal	>2,000 mg/kg	Rat

ROUTES OF ENTRY:

Normal use routes of entry include skin and respiratory tract.

CHRONIC EFFECTS ON HUMANS:

The product contains acetone. Repeated over-exposure to acetone targets the kidneys, liver, spleen and blood. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea, and vomiting.

Eyes:

Could cause short term irritation but no long term effects identified.

Skin:

Chronic skin exposure may cause contact dermatitis.

Ingestion:

Product is an aspiration hazard with the potential of causing chemical pneumonitis if aspirated into the lungs.

Inhalation:

Chronic inhalation of product components may cause liver, kidney neurological damage.

12. ECOLOGICAL INFORMATION

<u>Species</u>	<u>Test Information</u>	<u>Concentration</u>	<u>Component</u>
Oncorhynchus mykiss	LC50 - 96hr	5540 mg/L	acetone
Alburnus alburnus	LC50- 96 hr	11,000 mg/L	acetone
Leuciscus idus	LC50 - 48hr	11,300 mg/L	acetone
Rainbow Trout	LC50 - 96hr	13.5 mg/L	parachlorotribenzotrifluoride
Water flea	LC50 - 48hr	12.4 mg/L	parachlorotribenzotrifluoride
Green&Blue Algae	LC50 - 72hr	500 mg/L	parachlorotribenzotrifluoride
Pseudokirchneriella	EC50 - 96hr	450 mg/L	solvent naphtha (pet) med. Aliphatic
Pimephales promelas	LC50 - 96hr	800 mg/L	solvent naphtha (pet) med. Aliphatic
Daphnia magna	EC50 - 48hr	100 mg/L	solvent naphtha (pet) med. Aliphatic
Daphnia magna	EC50 - static 96 hr	>500 mg/L	Propylene glycol monomethyl ether acetate
Salmo gairdneri	LC50 - 96 hr	100 - 180 mg/L	Propylene glycol monomethyl ether acetate

PRODUCTS OF BIODEGRADATION:

Components readily biodegrade and products of biodegradation are less toxic than the chemicals, themselves.

Solvent components readily evaporate into the air from a spill.

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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	Dakota Shine
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	UN1263
Proper Shipping Name	Paint Related Material
Hazard Class	3
Packing Group	II
Label Codes	3
Special Provisions (172.102)	149, B52, IB2, T4, TP1, TP8, TP28
Packaging - Exceptions	173.150
Packaging - Nonbulk	173.173
Packaging - bulk	173.242
Quantity Limitations - Passenger aircraft/rail	5 L
Quantity Limitations - Cargo aircraft only	60 L
Vessel stowage - Location	B
Vessel stowage - Other	Blank

INTERNATIONAL AIR TRADE ASSOCIATION (IATA)

IATA 58th Edition Information	Dakota Shine
UN Number	UN1263
Proper Shipping Name Description	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)
Class or Division	3
Hazard Label(s)	Flammable liquid
Packing Group	II
EQ - 2.6 Dangerous Goods in Excepted Quantities	E2
Passenger Aircraft - Limited Quantity Packing Instructions	Y341
Passenger Aircraft - Limited Quantity Max net Qty/Pkg	1 L
Passenger Aircraft - Packing Instructions	353
Passenger Aircraft - Quantity Max Net Qty/Pkg	5 L

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Cargo Aircraft only - Packing Instructions	364
Cargo Aircraft only - Max Net Qty/Pkging	60 L
Special Provisions 4.4	A72
ERG Code	3L

INTERNATIONAL MARITIME DANGEROUS GOODS CODE (IMDG CODE)

IMDG 2016 EDITION	Dakota Shine
UN Number	UN1263
Proper Shipping Name Description	PAINT RELATED MATERIAL
Class or Division	3
Subsidiary Risks	components not listed as marine pollutants
Packing Group	II
Special Provisions	163, 367
Limited Quantities	5 L
Excepted Quantities	E2
Packing Instructions	P001
Packing Provisions	PP1
IBC Instructions 4.1.4	IBC02
IBC Provisions 4.1.4	Blank
Portable tanks and bulk containers - tank instructions	T4
Portable tanks and bulk containers - provisions	TP1, TP8, TP28
EmS	F-E, S-E
Stowage and Handling	Category B
Segregation	Blank
Properties and observations	Miscibility with water depends upon the composition

15. REGULATORY INFORMATION

Chemical Inventory Status

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

SARA Section 302 - Emergency Planning Notification -

SARA Section 304 - Emergency Release Notification -

SARA 311/312 - Hazard categories for SARA Section 311/312 Reporting - Acute and chronic health, fire hazard

CERCLA - Hazardous Substance - Acetone

RCRA Hazardous Waste Classification - Ignitable

California Proposition 65:

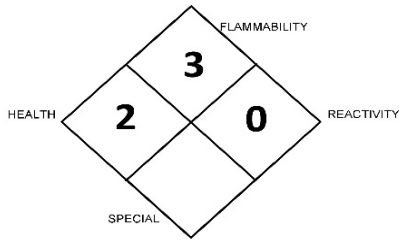
No known ingredients are on the California Proposition 65 list.

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.

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NFPA rating explanation as applied to Dakota Shine

FLAMMABILITY 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions (e.g. gasoline, acetone). Liquids having a flash point below 22.8 C/73 F and having a boiling point at or above 37.8 C/100 F or having a flash point between 22.8 and 37.8 C (73 and 100 F).

HEALTH 2 - Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury.

REACTIVITY 0 - Normally stable, even under fire exposure conditions, and is 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:

January 14, 2015. Revised to include additional hazard statements for aspiration and change DOT packing group to "II". Reformatted.

10-28-19 revision - changed formulation excludes toluene and xylene from the product.

Cheryl Sykora, CIH, CSP, CHMM

Registered Specialist, SDS and Label Authoring #118534

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