

SAFETY DATA SHEET

SECTION I: IDENTIFICATION

Product: Reefer Washout
Description: Equipment/Vehicle Wash
Company Identification: Solutions² LLC
1621 N. 1st St.
Winterset, IA 50273
Phone: 515-493-1153
Website: www.Solutions2llc.com



Company Emergency Telephone Number: CHEMTREC 1-800-424-9300

SECTION II: HAZARD(S) IDENTIFICATION

GHS CLASSIFICATION

Skin Corrosion/Irritation: Category 2

Eye Damage/Eye Irritation: Category 2

GHS LABEL ELEMENTS

Signal Word: **Warning**

Hazard Symbol:



Hazard Statements: Causes skin irritation.
Causes serious eye damage/irritation.

PRECAUTIONARY STATEMENTS

Prevention: Wash hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Skin: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water or shower.

Inhalation: Not applicable.

Ingestion: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Spill: Absorb spillage to prevent material damage.

Storage: Not applicable.

Disposal: Dispose of contents and container in accordance with local, state and federal regulations.

Hazards Not Classified: Not applicable.

Additional Information: Not applicable.

SECTION III: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight - %
Water	7732-18-5	82-87%
Alcohols, C9-11, Ethoxylated	68439-46-3	1-5%
Dipropylene glycol Monomethyl Ether	34590-94-8	2-7%

Specific chemical identity and/or exact percentage of mixture has been withheld as a trade secret.

SECTION IV: FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention.
Skin Contact:	Wash off with soap and water. Get medical attention if irritation develops or persists.
Inhalation:	Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion:	Rinse mouth. Get medical attention if symptoms occur.
Note to Physician:	Ensure that medical personnel are aware of the product(s) involved, and take precautions to protect themselves. Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SYMPTOMS OF EXPOSURE

Eye Contact:	Causes serious eye irritation.
Skin Contact:	No adverse effects due to skin contact are expected.
Inhalation:	Prolonged inhalation may be harmful.
Ingestion:	Expected to be a low ingestion hazard.

SECTION V: FIRE-FIGHTING MEASURES

Extinguishing Media:	Water fog, foam, dry chemical powder, carbon dioxide (CO ₂). Do not use water jet as an extinguisher, as this will spread the fire.
Specific Hazards from the Chemical:	During fire, gases hazardous to health may be formed.
Hazardous Combustion Products:	No unusual fire or explosion hazards noted.
Protective Equipment / Precautions for Firefighters:	Self contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other materials involved.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do Not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8.
Environmental Precautions:	Never return spills to original containers for re-use. For waste disposal, see Section 13. Avoid discharge into drains, water courses or onto the ground.
Methods for Cleaning Up:	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

SECTION VII: HANDLING AND STORAGE

Safe Handling: Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.

Storage Conditions for Safe Storage, Including any Incompatibilities: Store in original tightly closed container. Store away from incompatible materials (see Section 10).

SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: None established.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Dipropyleneglycol Monomethyl Ether	150 ppm (STEL) / 100 ppm (TWA)	600 mg/m ³ ; 100 ppm	900 mg/m ³ ; 150 ppm (STEL) / 600 mg/m ³ ; 100 ppm (TWA)

Engineering Controls: Good general ventilation (typically 10 air exchanges per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eye wash station.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection: Wear splash goggles. For product usage over head wear a face shield over goggles.

Skin/Body Protection: Wear rubber or other chemical resistant gloves. Use of apron, boots and other protective equipment should be considered to prevent or minimize product exposure.

Respiratory Protection: Not required with adequate ventilation. If occupational exposure limits are exceeded or respiratory irritation occurs, use MSHA/NIOSH approved respirator according to conditions and chemicals in Section 3.

General Hygiene: Wash hands and any other exposed skin thoroughly after handling. For further guidance reference 29 CFR 1910.132-138.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Color	Liquid / Clear
Odor	Mild
pH	11.0
Melting Point / Freezing Point	No information available
Boiling Point / Boiling Range	212° F
Flash Point	> 100° C / > 212° F
Evaporation Rate	No information available
Flammability (Solid, gas)	No information available
Upper Flammability Limit	No information available
Lower Flammability Limit	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	1.03
Solubility(ies)	No information available
Partition Coefficient	No information available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

SECTION X: STABILITY AND REACTIVITY

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reaction:	No dangerous reaction known under conditions of normal use.
Conditions to Avoid:	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible Material:	Strong oxidizing agents.
Hazardous Decomposition Products:	No hazardous decomposition products are known.

SECTION XI: TOXICOLOGICAL INFORMATION

NUMERICAL MEASURES OF TOXICITY

Acute Toxicity Estimates (ATE):	ATEmix (oral):	> 2,000 mg/kg
	ATEmix (dermal):	> 2,000 mg/kg

INFORMATION ON TOXICOLOGICAL EFFECTS

Component Acute Toxicity:

Chemical Name	Oral LD50	Dermal LD50
Alcohols, C9-11, Ethoxylated	> 5,050 mg/kg (Rat)	> 2,000 mg/kg (Rat)
Dipropyleneglycol Monomethyl Ether	5.4 ml/kg (Rat)	10 ml/kg (Rabbit)

LIKELY ROUTES OF EXPOSURE

Inhalation:	Prolonged inhalation may be harmful.
Skin Contact:	No adverse effects due to skin contact are expected.
Eye Contact:	Causes serious eye irritation.
Ingestion:	Expected to be low ingestion hazard.
Skin Corrosion/Irritation:	Prolonged skin contact may cause temporary irritation.
Serious Eye Damage/Eye Irritation:	Causes serious eye irritation.

SYMPTOMS OF EXPOSURE

Eye Contact:	Causes serious eye irritation.
Skin Contact:	No adverse effects due to skin contact are expected.
Inhalation:	Prolonged inhalation may be harmful.
Ingestion:	Expected to be a low ingestion hazard.

IMMEDIATE, DELAYED, CHRONIC EFFECTS

Product Information:	Prolonged inhalation may be harmful.
Target Organ Effects:	Not classified.
Carcinogenicity:	This product is not expected to be a carcinogen by IARC, ACGHI, NTP or OSHA.
U.S. OSHA Specifically Regulated Substances (29 CFR 11910.1001-1050):	Not listed.

SECTION XII: ECOLOGICAL INFORMATION

Ecotoxicity:

Chemical Name	Algae/Aquatic Plants	Fish	Microtoxicity	Crustacea
Alcohols, C9-11, Ethoxylated	1.4 mg/l, 96 hours	5-7 mg/l, 96 hours		2.5 mg/l, 48 hours

Persistence and Degradability: Not available.

Bioaccumulative Potential: Not available.

Mobility in Soil: Not available.

SECTION XIII: DISPOSAL CONSIDERATIONS

Disposal of Waste: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

SECTION XIV: TRANSPORT INFORMATION

DOT: Not regulated.

UN/ID #:

Proper Shipping Name: Compound, Cleaning Liquids, N.O.S.

Hazard Class:

Packing Group:

SECTION XV: REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory):

All chemical components in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313: This product does not contain listed substances above the "de minimus" level.

SARA 311/312 HAZARD CATEGORIES

Immediate Health Hazard: Yes

Delayed Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

California Proposition 65: California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

SECTION XVI: OTHER INFORMATION

Issue Date: 06/01/15

HAZARD RATINGS:

Version #: 1

NFPA:	Health: 1	Flammability: 0	Instability: 0
HMIS:	Health: 1	Flammability: 0	Physical Hazards: 0

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