

SAFETY DATA SHEET

SECTION I: IDENTIFICATION

Product: Drag Slat Cleaner
Description: Drag/Slat Cleaner
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

OSHA/HCS Status: This Material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS CLASSIFICATION

Skin Corrosion/Irritation: Category 2

GHS LABEL ELEMENTS

Signal Word: Warning

Hazard Pictogram:



Hazardous Statements: Causes skin irritation. - H315
 Causes serious eye irritation. - H319

PRECAUTIONARY STATEMENTS

General: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

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

Response: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.

Storage: Not applicable.

Disposal: Not applicable.

Hazards Not Classified: None known.

SECTION III: COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Chemical Name: Fatty Acid Methyl Esters

Other Means of Identification: Methyl Esters of Soybean Oil
CAS Numbers / Other Identifiers: **CAS Number:** 67784-80-9
Product Code: 2200139

Ingredient Name	Percentage	CAS Number
Fatty Acid Methyl Esters	100%	67784-80-9

Occupational exposure limits if available, are listed in Section 8.

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

SECTION IV: FIRST AID MEASURES

DESCRIPTION OF NECESSARY FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persists or are severe. Maintain open airway. Loosen tight

clothing such as collar, tie, belt or waistband.

Skin Contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in respiratory position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

MOST IMPORTANT SYMPTOMS/EFFECT, ACUTE AND DELAYED

Eye Contact: Causes serious eye irritation.

Inhalation: No known effects or critical hazards.

Skin Contact: Causes skin irritation.

OVER-EXPOSURE SIGNS/SYMPTOMS

Eye Contact: Adverse symptoms may include pain or irritation, watering and redness.

Inhalation: No specific data.

Skin Contact: Adverse symptoms may include irritation and redness.

Ingestion: No specific data.

INDICATIONS OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

Note to Physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific Treatments: No special treatment.

Protection of First-Aiders: No action should 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. See toxicological information (Section 11).

SECTION V: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Suitable Extinguishing Media:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable Extinguishing Media:	None known.
Specific Hazards Arising from the Chemical:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous Thermal Decomposition Products:	No specific data.
Special Protective Actions for Firefighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action should be taken involving any personal risk or without suitable training.
Special Protective Equipment for Firefighters:	Firefighters should wear appropriate equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.
Remarks:	Soaked rags will cause spontaneous combustion if not handled properly. Keep soaked rags in an approved safety container or let dry individually in well ventilated area.

SECTION VI: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Non-Emergency Personnel:	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 personal protective equipment.
Emergency Responders:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For Non-Emergency Personnel".
Environmental Precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the appropriate authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP

Small Spill:	Stop leak if without risk. Move containers from the spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, 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 licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: See Section 1 for any emergency contact information and Section 13 for waste disposal.

SECTION VII: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Protective Measures:	Wear appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative container made from a compatible material. Keep tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
General Occupational Hygiene:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas. See Section 8 for additional information on hygiene measures.
Conditions for Safe Storage, Including any Incompatibilities:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10), food and drink. Keep container tightly closed and sealed until ready to use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION**CONTROL PARAMETERS**

Occupational Exposure Limits: None

Appropriate Engineering Controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental Controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of the environmental protection legislation. In some cases fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

INDIVIDUAL PROTECTION MEASURES

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 work period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection: 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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

SKIN PROTECTION

Hand Protection: 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other Skin Protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection: 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.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Color	Liquid / Light Straw
Odor	Ester
Odor Threshold	No information available
pH	No information available
Melting Point / Freezing Point	No information available
Boiling Point / Boiling Range	204° C (399.2° F)
Flash Point	Closed Cup: 218° C (424.4° F). (Pensky-Martens)
Burning Time	No information available
Burning Rate	No information available
Evaporation Rate	No information available
Flammability (Solid, gas)	Soaked rags will cause spontaneous combustion if not handled properly. Keep soaked rags in an approved safety container or let dry individually in well ventilated area.
Upper Flammability Limit	No information available
Lower Flammability Limit	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	0.87 (Water = 1)
Solubility	No information available
Solubility in Water	No information available
Partition Coefficient	No information available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
SADT	No information available
Viscosity	No information available

SECTION X: STABILITY AND REACTIVITY

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability:	The product is stable.
Possibility of Hazardous Reaction:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to Avoid:	No specific data.
Incompatible Material:	No specific data.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION XI: TOXICOLOGICAL INFORMATION**INFORMATION ON TOXICOLOGICAL EFFECTS**

Acute Toxicity:	Not available.
Irritation/Corrosion:	Not available.
Sensitization:	Not available.
Mutagenicity:	Not available.
Carcinogenicity:	Not available.
Reproductive Toxicity:	Not available.
Teratogenicity:	Not available.
Specific Target Organ Toxicity:	Single Exposure: Not available. Repeated Exposure: Not available.
Aspiration Hazard:	Not available.
Likely Routes of Exposure:	Not available.

POTENTIAL ACUTE HEALTH EFFECTS

Eye Contact:	Causes serious eye irritation.
Inhalation:	No known significant effects or critical hazards.
Skin Contact:	Causes skin irritation.
Ingestion:	Irritating to mouth and stomach.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

Eye Contact:	Adverse symptoms may include pain or irritation, watering and redness.
Inhalation:	No specific data.
Skin Contact:	Adverse symptoms may include irritation and redness.
Ingestion:	No specific data.

DELAYED, IMMEDIATE AND CHRONIC EFFECTS FROM SHORT TERM AND LONG TERM EXPOSURE

Short Term Exposure:	Potential Immediate Effects: Not available. Potential Delayed Effects: Not available.
Long Term Exposure:	Potential Immediate Effects: Not available. Potential Delayed Effects: Not available.

POTENTIAL CHRONIC HEALTH EFFECTS

General:	No known significant effects or critical hazards.
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Developmental Effects:	No known significant effects or critical hazards.
Fertility Effects:	No known significant effects or critical hazards.

NUMERICAL MEASURES OF TOXICITY

Acute Toxicity Estimates:	Not available.
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SECTION XII: ECOLOGICAL INFORMATION

Toxicity:	Not available.
Persistence and Degradability:	Not available.
Bioaccumulative Potential:	Not available.
Mobility in Soil:	Not available.
Soil/Water Partition Coefficient (K_{oc}):	Not available.
Other Adverse Effects:	No known significant effects or critical hazards.

SECTION XIII: DISPOSAL CONSIDERATIONS

Disposal Methods:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of the environmental protection and waste disposal legislation and any regional and local authority requirements. Disposal of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities and jurisdictions. Waste packaging should be recycled. Incineration of landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe manner. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residue. Avoid dispersal of spilled material and runoff and/or contact with soil, waterways, drains and sewers.
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SECTION XIV: TRANSPORT INFORMATION

DOT:	Not regulated.
UN/ID #:	
Proper Shipping Name:	
Hazard Class:	
Packing Group:	

SPECIAL PRECAUTIONS FOR USERS

Transport Within User's Premises:	Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
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SECTION XV: REGULATORY INFORMATION

US FEDERAL REGULATIONS

TSCA 8(a) CDR Exempt/Partial Exemption: Not determined.
United States Inventory (TSCa 8b): Not determined.
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean Air Act (CAA) 112 Regulated Flammable Substances: No products were found.
Clean Air Act (CAA) 112 Regulated Toxic Substances: No products were 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.

SARA 302/304

Composition/Information on Ingredients: No products were found.
SARA 304 RQ: Not applicable.

SARA 311/312

Classification: Not applicable.
Canada Inventory: Not determined.

INTERNATIONAL REGULATIONS

Chemical Weapons Convention List Schedule I Chemicals: Not listed.
Chemical Weapons Convention List Schedule II Chemicals: Not listed.
Chemical Weapons Convention List Schedule III Chemicals: Not listed.

SECTION XVI: OTHER INFORMATION

Issue Date: 06/01/15 **HAZARD RATINGS:**
Version #: 1 **NFPA:** Health: 0 Flammability: 1 Reactivity: 0
 HMIS: Health: 0 Flammability: 1 Physical Hazard: 0

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