According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 and Regulation 2023/707, and aligned to GHS/OSHA HazCom principles for mixture classification Issue Date: 20.08.2026 Revision Date: 20.08.2026 Version: 20.08.2026

SAFETY DATA SHEET - COVER PAGE

Standard GHS or REACH/EU Compliant SDS begins on the following page.
This page is provided to customers for their assistance and is not part of the Standard Safety Data Sheet.

Product: **Orange Degreaser OD-500**	**Manufacturer:** **Engineered Fluids, Inc.** **4917 Profit Drive** **Tyler, TX** **+1-725-218-1981**

Description: Orange Degreaser OD-500 is an aqueous, alkaline citrus industrial cleaner and degreaser. It is nonflammable and non-hazardous. It's formulated with citrus solvent, alcohol, sodium metasilicate and water for industrial heavy-duty cleaning applications.

Emergency Telephone Number: +1-352-323-3500 Available 24 hours
Factory telephone Number: +1-725-218-1981 Available 8-5 CST

Here is a Quick Guide to Important Information Contained in the SDS:

Health (Blue)	2	Moderate Risk
Fire (Red)	0	Nonflammable
Environment	0	Low Risk

Characteristic	OD-500 PowerWash	See SDS Section
Major Hazards	Corrosive. Causes skin burns and eye damage. Harmful if swallowed. May cause allergic skin reaction.	Section 2 and 11
Handling	Use chemical-resistant gloves, protective clothing, eye/face protection and adequate ventilation.	Section 7.1 and 8.2.2
In Case of Spills	Contain and absorb with liquid-binding material. Avoid release to drains and environment.	Section 6
In case of Fire	Water-based mixture. May become involved in fires of other materials; thermal decomposition may produce sodium oxides.	Section 5
Transportation	Not regulated as finished mixture based on available information; verify against local modal rules before shipment.	Section 14
Biodegradation	Not expected to be persistent in the environment.	Section 12.2

Contact Engineered Fluids, Inc. for more information.

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Orange Degreaser OD-500

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 and Regulation 2023/707, and aligned to GHS/OSHA HazCom principles for mixture classification Issue Date: 20.08.2026 Revision Date: 20.08.2026 Version: 20.08.2026

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:	**OD-500 PowerWash** Identification of the product: See section 3 Index Number: See section 3 REACH registration No.: See section 3
1.2 Relevant identified uses:	Industrial aqueous cleaner/degreaser. For use by professionals only.
1.3 Supplier:	Engineered Fluids, Inc. 4917 Profit Drive, Tyler, TX 75707 USA Contact E-mail: support@engineeredfluids.com Telephone: +1-725-218-1981
1.4 Emergency telephone Number:	+1-352-323-3500

Section 2 Hazards identification

2.1 Classification of the mixture:	Hazard classes/Hazard categories: Met. Corr. 1; Skin Corr. 1B; Acute Tox. 4; Skin Sens. 1; STOT SE 1; Aquatic Chronic 3 Hazard statements: H290, H314, H302, H317, H370, H412
2.2 Label elements:	Signal word: Danger -None- H304 H290 Health Hazard May be Corrosive to Metal   H314 May Cause severe skin burns and eye damage. H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H370 May Cause damage to organs (optic nerve, nervous system). H412 May be Harmful to aquatic life with long lasting effect
	PREVENTION: P262: Do not get in eyes, on skin, or on clothing. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. **RESPONSE:** P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. 312: Call a POISON CENTER or physician if you feel unwell. P331: Do NOT induce vomiting. P302 + P350: IF ON SKIN: Gently wash with plenty of soap and water. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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	STORAGE: P404: Store in a closed container. P405: Store locked up.
2.3 Other hazards:	The mixture does not contain PBT/vPvB substance based on available information. The mixture does not contain known endocrine disruptors based on available information. High alkalinity may increase corrosive hazard.

Section 3 Composition/information on ingredients

Substance/Mixture: Mixture

Chemical Name	CAS No.	EC No.	Concentration	Classification	Specific Concentration limits / ATE
Water	7732-18-5	231-791-2	>50%	Not Classified	N/A
Methanol	67-56-1	200-659-6	2 -15 %	H225 H301 H311 H331 H370	STOT SE 1; H370: C >= 10% STOT SE 2; H371: 3% <= C < 10%
Trade Secret	Mixture of citrus distillate and surfactants	N/A	2-15%	Contains citrus solvent components typically classified H226 H315 H317 H304 H411	N/A
Sodium metasilicate	6834-92-0 / 13517-24-3	229-912-9	2-15%	H290 H314 H335	Finished mixture is classified as corrosive based on alkalinity/pH contribution and component hazards

Section 4 First aid measures

4.1 Description of first aid measures:	In all cases of doubt, exposure, or when symptoms persist, seek medical attention.
Inhalation:	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if exposed, concerned, or unwell.
Skin contact:	Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Get immediate medical advice/attention if the person feels unwell.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
Ingestion:	Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor immediately.
4.2 Most important symptoms/effects:	Causes skin burns and eye damage. Harmful if swallowed. May cause an allergic skin reaction. Causes damage to organs.
4.3 Immediate medical attention:	Immediate medical attention is required for eye contact, ingestion, burns or significant exposure. Treat symptomatically.

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Section 5 Firefighting measures

5.1 Extinguishing media:	Suitable extinguishing media: Dry chemical, carbon dioxide, alcohol-resistant foam, water spray as appropriate for surrounding fire. Unsuitable: Water with full jet where it may spread contamination.
5.2 Special hazards:	Water-based mixture. Hazardous decomposition products formed under fire conditions may include carbon oxides, sodium oxides and irritating/toxic fumes.
5.3 Advice for firefighters:	In the event of fire, wear self-contained breathing apparatus and full protective gear. Use personal protective equipment. Cool containers/tanks with water spray.

Section 6 Accidental release measures

6.1 Personal precautions:	Prevent further leakage or spillage if safe to do so. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ventilate the area. Wear suitable protective clothing, gloves and eye/face protection.
6.2 Environmental precautions:	Should not be released into the environment. Do not flush into surface water or sanitary sewer system. If product contaminates rivers, lakes or drains, inform respective authorities.
6.3 Containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Collect in suitable, closed, corrosion-resistant containers for disposal. Neutralization should only be performed by trained personnel.
6.4 Reference:	See Section 8 for personal protection. See Section 13 for disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:	Ensure good ventilation/exhaustion at the workplace. Avoid breathing mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
7.2 Conditions for safe storage:	Store locked up. Keep container tightly closed in a dry, cool and well-ventilated place. Keep only in original or corrosion-resistant packaging. Store away from acids, strong oxidizing agents and incompatible materials.
7.3 Specific end use(s):	Industrial, marine and heavy-duty cleaner/degreaser. Not intended for food, drug, pesticide or biocidal use.

Section 8 Exposure controls/personal protection

Country	Substance	EC No.	CAS No.	8-hour ppm	8-hour mg/m3	Note
Ireland	Methanol	200-659-6	67-56-1	200	260	-
USA OSHA PEL	Methanol	200-659-6	67-56-1	200	260	Skin notation may apply by jurisdiction

8.2.1 Engineering controls:	Ensure adequate ventilation. Apply technical measures to comply with occupational exposure limits. Eyewash stations and safety showers should be available.

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8.2.2 Eye/face protection:	Chemical safety goggles and face protection.
Hand protection:	Wear chemical-resistant protective gloves. Confirm glove material compatibility with methanol and high-pH aqueous cleaners.
Body protection:	Wear suitable protective clothing to prevent skin exposure.
Respiratory protection:	Use suitable respiratory protection if exposure limits are exceeded, ventilation is inadequate, or mist/vapor is generated.
8.2.3 Environmental exposure controls:	Avoid discharge into the environment. Follow local, national and official regulations.

Section 9 Physical and chemical properties

Physical state:	Liquid
Color:	Orange-amber
Odor:	Citrus/alcohol
Odor threshold:	Not available
pH:	Strongly alkaline
Melting point/freezing point:	Not available
Boiling point/range:	100C / 212F
Flash point:	None; aqueous mixture
Flammability:	Not classified as flammable based on water content
Relative Density:	Not available
Solubility in water:	Soluble/dispersible in water
Partition coefficient:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Particle characteristics:	Not applicable
Oxidizing properties:	Not oxidizing

Section 10 Stability and Reactivity

10.1 Reactivity:	The mixture is stable under normal storage and handling conditions. Corrosive to some metals may occur.
10.2 Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
10.3 Hazardous reactions:	No dangerous reactions known under normal processing.
10.4 Conditions to avoid:	Incompatible materials. High temperatures. Proximity to sources of ignition. Avoid drying residues and mist generation.

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10.5 Incompatible materials:	Strong oxidizing agents, acids, reactive metals and materials incompatible with alkaline methanol-containing mixtures.
10.6 Hazardous decomposition:	Carbon oxides, sodium oxides and irritating/toxic fumes.

Section 11 Toxicological information

Acute toxicity:	Classified Acute Tox. 4 (oral). Harmful if swallowed.
Skin corrosion/irritation:	Classified Skin Corr. 1B. Causes severe skin burns and eye damage.
Serious eye damage/irritation:	Classified Eye Damage through Skin Corr. 1B / corrosive mixture classification.
Respiratory or skin sensitization:	May cause an allergic skin reaction due to citrus components.
Germ cell mutagenicity:	Not classified based on available information.
Carcinogenicity:	Not classified based on available information.
Reproductive toxicity:	Not classified based on available information.
STOT-single exposure:	Classified STOT SE 1. Causes damage to organs (optic nerve, central nervous system), driven by methanol concentration >=10%.
STOT-repeated exposure:	Not classified based on available information.
Aspiration hazard:	Not classified based on available information.
Other information:	Methanol exposure may cause central nervous system effects and optic nerve injury. High alkalinity may cause burns by all exposure routes.

Section 12 Ecological information

12.1 Toxicity:	Classified Aquatic Chronic 3. Harmful to aquatic life with long lasting effects. Citrus solvent components contribute aquatic chronic hazard. Sodium metasilicate may affect aquatic systems through pH shift.
12.2 Persistence and degradability:	This product is not expected to be persistent in the environment based on available component information.
12.3 Bioaccumulative potential:	No significant bioaccumulation potential expected based on available information.
12.4 Mobility in soil:	Expected to be mobile due to water solubility.
12.5 PBT/vPvB assessment:	The mixture does not contain PBT/vPvB substance based on available information.
12.6 Endocrine disrupting properties:	The mixture does not contain known endocrine disruptors based on available information.
12.7 Other adverse effects:	Avoid uncontrolled release. High pH may be harmful to aquatic organisms.

Section 13 Disposal considerations

13.1 Waste treatment methods:	Dispose of in accordance with all applicable local and national regulations. Use recovery/recycling where feasible. Empty containers may contain hazardous residues. Do not cut, puncture or weld on or near the container. Contaminated containers should be cleaned by

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	appropriate methods and then re-used or disposed of as appropriate. Do not incinerate closed containers.

Section 14 Transport Information

	Land transport (ADR/RID/DOT)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
14.1 UN number	Not regulated*	Not regulated*	Not regulated*	Not regulated*
14.2 UN proper shipping name	Not regulated*	Not regulated*	Not regulated*	Not regulated*
14.3 Transport hazard class(es)	Not regulated*	Not regulated*	Not regulated*	Not regulated*
14.4 Packing group	Not regulated*	Not regulated*	Not regulated*	Not regulated*
14.5 Environmental hazards	No	No	No	No
14.6 Special precautions	See section 2.2	See section 2.2	See section 2.2	See section 2.2
14.7 Maritime transport in bulk	Not regulated	Not regulated	Not regulated	Not regulated

*Finished-mixture transport classification should be verified using measured pH/corrosion-to-metals data and applicable modal regulations before shipment.

Section 15 Regulatory information

15.1 Safety, health and environmental regulations:	Relevant authorization: Not applicable. Relevant restriction: Methanol and sodium metasilicate may be subject to jurisdiction-specific workplace, consumer product, transport and REACH restrictions. Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.
15.2 Chemical Safety Assessment:	No chemical safety assessment has been carried out for this mixture.

Section 16 Other information

16.1 Indication of changes:	Version 1.0. New SDS for Orange Degreaser OD-500.
16.2 Abbreviations:	ADR, RID, ADN, IMDG, ICAO, IATA, UFI, LC50, EC50, NOEC, DNEL, PNEC, ATE, PBT, vPvB.
16.3 Key references:	Citrus Terpene SDS, 2024. Sodium metasilicate nonahydrate SDS, Fisher Scientific, revision 18-Dec-2025. Supplier formulation information for OD-500.
16.4 Classification procedure:	Met. Corr. 1 H290: component/pH/conservative assessment. Skin Corr. 1B H314: pH/component/conservative assessment. Acute Tox. 4 H302: calculation method, methanol contribution. Skin Sens. 1 H317: calculation method, citrus component contribution. STOT SE 1 H370: methanol concentration >=10%. Aquatic Chronic 3 H412: calculation method, citrus component contribution.
16.5 Relevant H-statements:	H314 May Cause severe skin burns and eye damage. H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H370 May Cause damage to organs (optic nerve, nervous system). H412 May be Harmful to aquatic life with long lasting effect H412 Harmful to aquatic life with long lasting effects.
16.6 Training instructions:	Personnel should be trained in handling corrosive, methanol-containing alkaline cleaners and in the use of appropriate PPE.

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16.7 Further information:	This information is based upon the present state of our knowledge and is intended for this product as described.
16.8 Notice to reader:	Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability to ensure proper use and protect health and safety. This SDS is a technical draft and should be reviewed by a qualified SDS/regulatory professional before external distribution.

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