

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 4/25/2016

SECTION 1: IDENTIFICATION

Product Identifier Product Form: Mixture Product Name: Grease Solv III (AFCO 6435)

Product Code: AFCO 6435

Intended Use of the Product

Use of the Substance/Mixture: Alkaline degreaser. For professional use only.

Name, Address, and Telephone of the Responsible Party

Company

Alex C. Fergusson, LLC. 800 Development Avenue Chambersburg, PA 17201 T 800-345-1329

www.afcocare.com

Emergency Telephone Number Emergency number : 1-800-424-9300 (CHEMTREC)

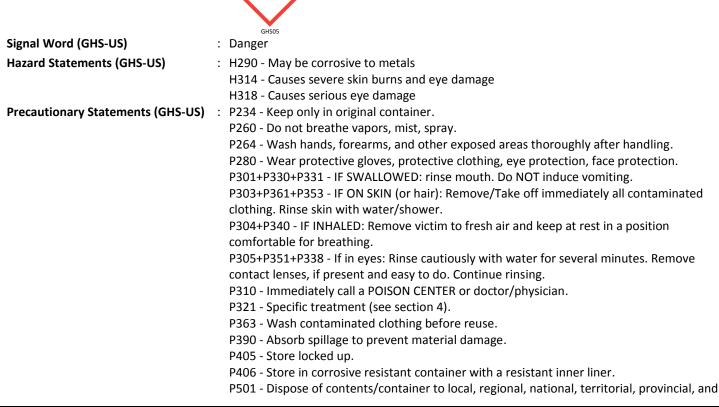
SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture Classification (GHS-US) Met. Corr. 1 H290 Skin Corr. 1 H314

Eye Dam. 1 H318 Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Version: 1.0

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

international regulations.P406 - Store in corrosive resistant container with a resistant inner liner.

Other Hazards

Other Hazards Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. When heated to decomposition, emits toxic fumes. Corrosive vapors.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

<u>Mixture</u>

Name	Product identifier	% (w/w)	Classification (GHS-US)
Water	(CAS No) 7732-18-5	80-90	Not classified
2-Butoxyethanol	(CAS No) 111-76-2	1-5	Flam. Liq. 4, H227
			Acute Tox. 4 (Oral), H302
			Acute Tox. 4 (Dermal), H312
			Acute Tox. 4 (Inhalation:vapour), H332
			Skin Irrit. 2, H315
			Eye Irrit. 2A, H319
Potassium hydroxide	(CAS No) 1310-58-3	1-5	Met. Corr. 1, H290
			Acute Tox. 4 (Oral), H302
			Skin Corr. 1A, H314
			Eye Dam. 1, H318
Alkyl napthalene sodium sulfonate	(CAS No) 25638-17-9	1-5	Eye Irrit. 2A, H319
Triethanolamine dodecylbenzenesulfonate	(CAS No) 27323-41-7	1-5	Acute Tox. 4 (Oral), H302
			Skin Irrit. 2, H315
			Eye Irrit. 2A, H319
Sodium polyacrylate	(CAS No) 9003-04-7	0.1-1	Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Immediately call a POISON CENTER or doctor/physician.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: Corrosive. Causes burns. Causes serious eye damage.

Inhalation: May cause slight irritation to respiratory tract.

Skin Contact: Contact may cause immediate severe irritation progressing quickly to chemical burns.

Eye Contact: Causes serious eye damage.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Not available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide, foam, dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: When heated to decomposition, emits toxic fumes. In contact with soft metals, emits flammable hydrogen gas.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Corrosive vapors. Sodium oxides, potassium oxides, sulfur oxides, nitrogen oxides.

Other information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapour or mist.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Absorb and/or contain spill with inert material, then place in suitable container. Cautiously neutralize spilled liquid.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Contact competent authorities after a spill. Cautiously neutralize spilled liquid.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: When heated to decomposition, emits toxic fumes. Corrosive vapors are released. Contact with soft metals may evolve flammable hydrogen gas.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do no eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a well-ventilated place. Keep container tightly closed. Keep/Store away from heat, extremely low temperatures, incompatible materials.

Incompatible Materials: Strong acids, strong oxidizers, and soft metals.

Specific End Use(s)

Alkaline degreaser. For professional use only.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters					
2-Butoxyethanol (111-76-2)	2-Butoxyethanol (111-76-2)				
Mexico	OEL TWA (mg/m³)	120 mg/m ³			
Mexico	OEL TWA (ppm)	26 ppm			
Mexico	OEL STEL (mg/m³)	360 mg/m ³			
Mexico	OEL STEL (ppm)	75 ppm			
USA ACGIH	ACGIH TWA (ppm)	20 ppm			
USA OSHA	OSHA PEL (TWA) (mg/m³)	240 mg/m ³			
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm			
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	24 mg/m ³			
USA NIOSH	NIOSH REL (TWA) (ppm)	5 ppm			
USA IDLH	US IDLH (ppm)	700 ppm			
Ontario	OEL TWA (ppm)	20 ppm			
Québec	VEMP (mg/m ³)	97 mg/m³			
Québec	VEMP (ppm)	20 ppm			

Potassium hydroxide (1310-58-3)			
USA ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m³	
USA NIOSH	NIOSH REL (ceiling) (mg/m ³)	2 mg/m ³	
Ontario	OEL Ceiling (mg/m ³)	2 mg/m ³	
Québec	PLAFOND (mg/m³)	2 mg/m ³	

Exposure Controls PRODUCT as SOLD

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined area. If user operations generate fumes, vapors, gas, or spray use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or regulatory limits.

Personal Protective Equipment: Protective clothing. Protective goggles. Gloves. Face shield.



Materials for Protective Clothing: Chemically resistant materials and fabrics. Corrosionproof clothing.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: A respirator is not needed under normal and intended conditions of product use. Whenever worker exposure may exceed established regulatory exposure limits, use a NIOSH-approved respirator.

Thermal Hazard Protection: Wear suitable protective clothing.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

	Information on	Basic Physical and	Chemical Properties	
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Physical State	:	Liquid
Appearance	:	Clear, pale yellow
Odor	:	Citrus
Odor Threshold	:	Not available
рН	:	13.0
Relative Evaporation Rate (butylacetate=1)	:	Not available
Melting Point	:	Not available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

:	Not available
:	102°C (216°F)
:	None
:	None
:	Not available
:	1.03
:	Complete.
:	Not available
:	Not available
:	Not expected to present an explosion hazard due to mechanical impact.
:	Not expected to present an explosion hazard due to static discharge.
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SECTION 10: STABILITY AND REACTIVITY

Reactivity: When heated to decomposition, emits toxic fumes. In contact with soft metals, emits flammable hydrogen gas. **Chemical Stability:** Stable at standard temperature and pressure.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Extremely low temperatures. Incompatible materials.

Incompatible Materials: Strong acids. Strong oxidizers.

Hazardous Decomposition Products: Carbon oxides (CO, CO2). Corrosive vapors. Sodium oxides, sulfur oxides, potassium oxides, nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes severe skin burns and eye damage. pH: 13.0

Serious Eye Damage/Irritation: Causes serious eye damage. pH: 13.0

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause slight irritation to respiratory tract.

Symptoms/Injuries After Skin Contact: Contact may cause immediate severe irritation progressing quickly to chemical burns.

Symptoms/Injuries After Eye Contact: Causes serious eye damage.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Water (7732-18-5)

LD50 Oral Rat

LD50 Oral Rat

> 90000 mg/kg

214 mg/kg

Potassium hydroxide (1310-58-3)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ATE (oral)

333.000 mg/kg body weight

Alkyl napthalene sodium sulfonate (25638-17-9)			
LD50 Oral Rat	>2000 mg/kg		
2-Butoxyethanol (111-76-2)			
LD50 Oral Rat	470 mg/kg		
LD50 Dermal Rat	1680 mg/kg		
LC50 Inhalation Rat (ppm)	450 ppm/4h		
ATE (dermal)	0.680 mg/kg body weight		
ATE (gases)	450.000 ppmV/4h		
ATE (vapors)	11.000 mg/l/4h		
Triethanolamine dodecylbenzenesulfonate (27323-41-7)			
LD50 Oral Rat	2320 mg/kg		
2-Butoxyethanol (111-76-2)			
IARC Group	3		
National Toxicity Program (NTP) Status	Evidence of Carcinogenicity.		
SECTION 12: ECOLOGICAL INFORMATION			

Toxicity Not classified

2-Butoxyethanol (111-76-2)	
LC50 Fish 1	1490 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

Alkyl napthalene sodium sulfonate (25638-17-9)		
LC50 Fish 1 >100 mg/l (Exposure time: 96 h)		
LC50 Algae >100 mg/l (Exposure time: 76 h)		

Persistence and Degradability Not available

Bioaccumulative Potential Grease Solv III (AFCO 6435) Bioaccumulative Potential Not established. Potassium hydroxide (1310-58-3) Log Pow 0.65

2-Butoxyethanol (111-76-2)		
Log Pow	0.81 (at 25 °C)	

Mobility in Soil Not available

Other Adverse Effects

Other Information: None

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Ecology – Waste Materials: Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION 14.1 In Accordance with DOT Proper Shipping Name : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium hydroxide) Hazard Class : 8 Identification Number : UN3266

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Label Codes	: 8
Packing Group	: 111
ERG Number	: 154
14.2 In Accordance with II	MDG
Proper Shipping Name	: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium hydroxide,)
Hazard Class	: 8
Identification Number	: UN3266
Packing Group	: 111
Label Codes	: 8
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
14.3 In Accordance with I	
Proper Shipping Name	: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium hydroxide,)
Packing Group	: III
Identification Number	: UN3266
Hazard Class	: 8
Label Codes	: 8
ERG Code (IATA)	: 8L
14.4 In Accordance with T	ſDG
Proper Shipping Name	: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.(Potassium hydroxide,)
Packing Group	: 111
Hazard Class	: 8
Identification Number	: UN3266
Label Codes	: 8
SECTION 15: REGULATOR	RY INFORMATION

US Federal Regulations

Grease Solv III (AFCO 6435)			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard		
Water (7732-18-5)			
Listed on the United States TSCA (Toxic Substances Control Act)	inventory		
2-Butoxyethanol (111-76-2)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Potassium hydroxide (1310-58-3)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Triethanolamine dodecylbenzenesulfonate (27323-41-7)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Sodium polyacrylate (9003-04-7)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Alkyl napthalene sodium sulfonate (25638-17-9)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			

US State Regulations

2-Butoxyethanol (111-76-2)

- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Acute
- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. New York Occupational Exposure Limits Skin Designations

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
U.S New York - Occupational Exposure Limits - TWAs
U.S Pennsylvania - RTK (Right to Know) List
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
Potassium hydroxide (1310-58-3)
U.S New Jersey - Discharge Prevention - List of Hazardous Substances
U.S New Jersey - Right to Know Hazardous Substance List
U.S New Jersey - Special Health Hazards Substances List
U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances
U.S North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S Pennsylvania - RTK (Right to Know) List
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
Triethanolamine dodecylbenzenesulfonate (27323-41-7)
U.S New Jersey - Discharge Prevention - List of Hazardous Substances
U.S New Jersey - Right to Know Hazardous Substance List
U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S Pennsylvania - RTK (Right to Know) List
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Long Term U.S Texas - Effects Screening Levels - Short Term Sodium polyacrylate (9003-04-7) U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Long Term U.S Texas - Effects Screening Levels - Short Term Sodium polyacrylate (9003-04-7)

Grease Solve III (AFCO 643	15)
WHMIS Classification	Class E - Corrosive Material
Water (7732-18-5)	
Listed on the Canadian DSI	. (Domestic Substances List) inventory.
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
2-Butoxyethanol (111-76-2	2)
Listed on the Canadian DSI	. (Domestic Substances List) inventory.
Listed on the Canadian Ing	redient Disclosure List
WHMIS Classification	Class B Division 3 - Combustible Liquid
	Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Potassium hydroxide (131	0-58-3)
Listed on the Canadian DSI	. (Domestic Substances List) inventory.
Listed on the Canadian Ing	redient Disclosure List
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects
	Class E - Corrosive Material
Triethanolamine dodecylb	enzenesulfonate (27323-41-7)
Listed on the Canadian DSI	. (Domestic Substances List) inventory.
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Sodium polyacrylate (9003-04-7)			
Listed on the Canadian DSL (Domestic Substances List) inventory.			
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects		
Alkyl napthalene sodium sulfonate (25638-17-9)			
Listed on the Canadian DSL (Domestic Substances List) inventory.			
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria		

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

: 4/25/2016

Revision date Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4	Acute toxicity (inhalation:vapour) Category 4
(Inhalation:vapour)	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
H227	Combustible liquid
H290	May be corrosive to metals
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled

NFPA Health Hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA Fire Hazard	: 0 - Materials that will not burn.
NFPA Reactivity	 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard
Physical	: 1 Slight Hazard
Party Responsible for the Prepa	aration of This Document

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS 2