

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : Mop & Strip No Rinse Stripper

Product code : 3665

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Floor Stripper Degreaser

1.3. Details of the supplier of the safety data sheet

Flo-Kem

19402 Susana Rd.

Rancho Dominguez, CA 90221 - USA T 310-632-7124 - F 310-631-7496

http://www.flo-kem.com

1.4. Emergency telephone number

Emergency number : CHEMTEL: 800-255-3924

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Flam. Liq. 4 H227 Skin Corr. 1C H314 Eye Dam. 1 H318 Skin Sens. 1 H317 STOT SE 3 H335

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms





GHS05

GHS07

Signal word : Danger

Hazard statements : Combustible liquid.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Causes serious eye damage.

May cause respiratory irritation.

Precautionary statements : Keep away from heat, hot surfaces, open flames, sparks. - No smoking.

Do not breathe mist, vapors.

Keep cool.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear eye protection, face protection, protective clothing, protective gloves, protective boots.

If swallowed: rinse mouth. Do NOT induce vomiting.

Wash with plenty of soap and water.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: 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. Call a POISON CENTER/doctor/physician if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention.

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In case of fire: Use alcohol resistant foam, BC-powder, carbon dioxide (CO2), dry chemical,

sand to extinguish.

Store in a well-ventilated place. Keep container tightly closed.

Take off contaminated clothing and wash before reuse.

Store locked up.

Dispose of contents/container in accordance with Local, State, and Federal regulations.

Hazard not otherwise classified (HNOC)

No additional information available

Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

Not applicable

(NOTE: If component displays the * (asterisk) symbol, the following statement applies.)

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-phrases: see section 16

3.2. **Mixture**

Name	Product identifier	%	Classification (GHS-US)
2-butoxyethanol	(CAS No) 111-76-2	5 - 10	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
2-aminoethanol	(CAS No) 141-43-5	5 - 10	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314
2-phenoxyethanol	(CAS No) 122-99-6	5 - 10	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
sodium xylenesulfonate	(CAS No) 1300-72-7	1 - 5	Skin Irrit. 2, H315 STOT SE 3, H335
(+)-limonene	(CAS No) 5989-27-5	0.1 - 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

(NOTE: If component displays the * (asterisk) symbol, the following statement applies.)

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First aid measures

Description of first aid measures

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).

Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON First-aid measures after inhalation CENTER/doctor/physician if you feel unwell. Immediately call a POISON CENTER or

First-aid measures after skin contact Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Immediately call a POISON CENTER or doctor/physician.

First-aid measures after 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.

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or First-aid measures after ingestion

doctor/physician.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage.

Symptoms/injuries after inhalation : May cause respiratory irritation. Symptoms/injuries after skin contact : Causes burns/corrosion of the skin. Symptoms/injuries after eye contact : Causes serious eye damage.

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Symptoms/injuries after ingestion

Abdominal pain. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints. Nausea.
 Vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam. BC powder. Carbon dioxide. Dry chemical powder. Sand/earth.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard

: Combustible liquid.

Reactivity

Reacts with (strong) oxidizers and with (some) acids. Reacts with (some) halogen compounds.

Thermal decomposition generates: Corrosive vapors.

5.3. Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting

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

Although product has a flash point <200° F, it is an aqueous solution and does not sustain

combustion.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Other information

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Isolate from fire, if possible, without unnecessary risk. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Protective equipment

Protective goggles.
 Protective gloves.
 Protective clothing.
 Respiratory protection.
 Protective boots.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment

: Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment

: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dilute combustible/toxic gases/vapors with water spray.

Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Wash down leftovers with plenty of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Do not get in eyes, on skin, or on clothing. Do not breathe mist, vapors. Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Observe normal hygiene standards. Provide good ventilation in process area to prevent formation of vapor. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required.

Hygiene measures

: Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and forearms thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation. Take precautionary measures against static

discharge. Comply with applicable regulations.

Incompatible products : Strong acids. Oxidizing agent.

Storage area : Store in a cool, dry well-ventilated area. Keep container tightly closed when not in use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-aminoethanol (141-43-5)		
ACGIH	ACGIH TWA (ppm)	3 ppm
ACGIH	ACGIH STEL (ppm)	3 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	0.46 ppm

2-butoxyethanol (111-76-2)		
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (ppm)	20 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	97 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	20 ppm

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or face shield.
Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear approved mask. Where exposure through inhalation may occur from use, respiratory

protection equipment is recommended.

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

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and at the end of workday.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Clear blue
Odor : Lemon

Odor threshold : No data available pH : 12.5 - 13.5

Melting point : No data available receiping point : No data available receiping point : No data available

Boiling point : $> 212 \, ^{\circ}\text{F}$ Flash point : $> 140 \, ^{\circ}\text{F}$

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available Explosive limits : No data available Vapor pressure : No data available Vapor density : No data available

Specific Gravity @ 77° F : 1.010 - 1.030
Solubility : Soluble in water.

Partition Coefficient n-Octanol-Water : No data available
Auto-ignition temperature : No data available

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Decomposition temperature : No data available Viscosity : No data available

9.2. Other information

VOC content : < 175 g/l CARB VOC

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with (strong) oxidizers and with (some) acids. Reacts with (some) halogen compounds. Thermal decomposition generates: Corrosive vapors.

10.2. Chemical stability

Stable under recommended conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures. Heat. Open flame. Sparks.

10.5. Incompatible materials

Strong acids. Oxidizers. Halogenated organic solvents.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides. Sulfur oxides. Thermal decomposition generates: Corrosive vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

(+)-limonene (5989-27-5)		
LD50 oral rat	4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Read-across)	
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402)	
ATE US (oral)	4400.000 mg/kg body weight	
sodium xylenesulfonate (1300-72-7)		
LD50 oral rat	3346 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
ATE US (oral)	3346.000 mg/kg body weight	
2-phenoxyethanol (122-99-6)		
LD50 oral rat	1260 mg/kg (Rat)	
LD50 dermal rat	14422 mg/kg (Rat)	
LD50 dermal rabbit	5500 mg/kg (Rabbit)	
ATE US (oral)	1260.000 mg/kg body weight	
ATE US (dermal)	5500.000 mg/kg body weight	
2-aminoethanol (141-43-5)		
LD50 oral rat	1720 mg/kg (Rat)	
LD50 dermal rabbit	1018 mg/kg (Rabbit)	
ATE US (oral)	1720.000 mg/kg body weight	
ATE US (dermal)	1018.000 mg/kg body weight	
ATE US (gases)	4500.000 ppmV/4h	
ATE US (vapors)	11.000 mg/l/4h	
ATE US (dust, mist)	1.500 mg/l/4h	
2-butoxyethanol (111-76-2)		
LD50 oral rat	530 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 1746 mg/kg bodyweight; Rat; Experimental value)	
LD50 dermal rat	> 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)	
LD50 dermal rabbit	435 mg/kg body weight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity; 435 mg/kg bodyweight; Rabbit; Weight of evidence; Equivalent or similar to OECD 402)	
LC50 inhalation rat (mg/l)	2.17 mg/l/4h (Rat; Experimental value; 2.35 mg/l/4h; Rat; Experimental value)	
LC50 inhalation rat (ppm)	450-486,Rat; Weight of evidence	
ATE US (oral)	530.000 mg/kg body weight	
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2-butoxyethanol (111-76-2)	
435.000 mg/kg body weight	
700.000 ppmV/4h	
2.170 mg/l/4h	
2.170 mg/l/4h	

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 12.5 - 13.5

Serious eye damage/irritation : Causes serious eye damage.

pH: 12.5 - 13.5

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

(+)-limonene (5989-27-5)	
IARC group	3 - Not Classifiable

2-butoxyethanol (111-76-2)	
IARC group	3 - Not Classifiable

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met

Symptoms/injuries after inhalation : May cause respiratory irritation. Symptoms/injuries after skin contact Causes burns/corrosion of the skin.

Symptoms/injuries after eye contact Causes serious eye damage.

Symptoms/injuries after ingestion Abdominal pain. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints. Nausea. Vomiting.

SECTION 12: Ecological information

12.1. **Toxicity**

(+)-limonene (5989-27-5)		
LC50 fish 1	720 μg/l (96 h; Pimephales promelas; Lethal)	
EC50 Daphnia 1	0.36 mg/l (48 h; Daphnia magna; GLP)	
LC50 fish 2	702 µg/l (96 h; Pimephales promelas)	
Threshold limit algae 1	150 mg/l (72 h; Desmodesmus subspicatus; GLP)	
Threshold limit algae 2	2.62 mg/l (72 h; Desmodesmus subspicatus)	
sodium xylenesulfonate (1300-72-7)		
LC50 fish 1	> 1580 mg/l (Rainbow trout)	
EC50 Daphnia 1	> 1020 mg/l	
ErC50 (algae)	758 mg/l	
NOEC chronic algae	240 mg/l	
2-phenoxyethanol (122-99-6)		
LC50 fish 1	345 mg/l (96 h; Pimephales promelas)	
EC50 Daphnia 1	357 mg/l (96 h; Chaetogammarus marinus)	
2-aminoethanol (141-43-5)		
LC50 fish 1	150 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 1	140 mg/l (24 h; Daphnia magna)	
LC50 fish 2	329.16 mg/l (96 h; Lepomis macrochirus)	
TLM fish 1	100 - 1000,96 h; Pisces	
TLM other aquatic organisms 1	100 - 1000,96 h	

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2-butoxyethanol (111-76-2)	
Log Pow	0.81 (Experimental value; BASF test; 25 ℃)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with Local, State, and Federal regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN Number

UN-No.(DOT) : 2491

Other information : Under 49 CFR 173.154(c) and (b)(2): This product may be shipped as ORM-D or Limited

Quantity if the inner packagings do not exceed 5 L (1.3 gallons) or 5.0 kg (11 lbs). This provision does not apply to transportation by vessel or aircraft, except where other means of

transportation is impracticable.

14.2. UN proper shipping name

DOT Proper Shipping Name : UN2491, Ethanolamine Solutions, 8, PGIII

Hazard labels (DOT) : 8 - Corrosive



SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory

(+)-limonene (5989-27-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	
sodium xylenesulfonate (1300-72-7)		
Listed on the United States TSCA (Toxic Substar	nces Control Act) inventory	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
2-phenoxyethanol (122-99-6)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard	
2-aminoethanol (141-43-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	
2-butoxyethanol (111-76-2)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	

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15.2. International regulations

CANADA

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

Prop 65 Comments

:Diethanolamine (CAS#111-42-2): < 150 ppm

SECTION 16: Other information

Abbreviations Legend:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Asp. Tox. 1	Aspiration hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Disclaimer

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Safety Data Sheet

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