

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 23.11.2016

Revision: 23.11.2016

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

1.1 Product identifier

Trade name: **Grease Out v.1**

Article number: 101703

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

Application of the substance / the mixture: Degreaser

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

Theochem Laboratories
7373 Rowlett Park Drive
Tampa, FL 33610
Phone: 813-237-6463



1.4 Emergency telephone number:

ChemTel Inc.
(800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the Globally Harmonized System within the United States.

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

The following pictogram(s) are only for use within Europe: GHS09.



GHS07 GHS09

Signal word Warning

Hazard-determining components of labelling:

Orange oil

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- **Hazard statements**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

P261 Avoid breathing mist/vapours/spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection.

P272 Contaminated work clothing should not be allowed out of the workplace.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 0

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 0

Reactivity = 0

- **2.3 Other hazards** There are no other hazards not otherwise classified that have been identified.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Components:**

CAS: 68439-46-3

EC number: 614-482-0

Reg.nr.: 01-2119980051-45-XXXX

alcohols, C9-11, ethoxylated

⚠ Eye Irrit. 2, H319

5-10%

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| | | |
|--|--|------|
| CAS: 34590-94-8 EINECS: 252-104-2 Reg.nr.: 01-2119450011-60-XXXX | (2-methoxymethylethoxy)propanol substance with a Community workplace exposure limit | 1-5% |
| CAS: 8008-57-9 EC number: 616-926-9 | Orange oil  Flam. Liq. 3, H226  Asp. Tox. 1, H304  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Skin Irrit. 2, H315; Skin Sens. 1, H317 | 1-5% |
| CAS: 61791-10-4 EC number: 612-393-1 | cocoalkylmethyl PEG-15 ammonium chloride  Eye Dam. 1, H318  Aquatic Chronic 2, H411 | <3% |
| CAS: 37971-36-1 EINECS: 253-733-5 Reg.nr.: 01-2119436643-39-XXXX | 2-phosphonobutane-1,2,4-tricarboxylic acid  Met. Corr. 1, H290  Eye Irrit. 2, H319 | < 3% |

Additional information:

For the wording of the listed Hazard Statements refer to section 16.

For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret.

SECTION 4: First aid measures**4.1 Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:**

Immediately rinse with water.

If skin irritation continues, consult a doctor.

- **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

- **4.2 Most important symptoms and effects, both acute and delayed**

Headache

Slight irritant effect on skin and mucous membranes.

Irritant to eyes.

Nausea

Allergic reactions

Gastric or intestinal disorders when ingested.

- **4.3 Indication of any immediate medical attention and special treatment needed**

Contains Orange oil. May produce an allergic reaction.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
The product is not flammable.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment as required.
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
Ensure adequate ventilation
- **6.2 Environmental precautions**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable receptacles.
Clean the affected area carefully; suitable cleaners are:
Warm water
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Use only in well ventilated areas.
Avoid contact with the eyes and skin.
Keep out of reach of children.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Avoid storage near extreme heat, ignition sources or open flame.

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- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidising agents.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

34590-94-8 (2-methoxymethylethoxy)propanol

| | |
|------------|---|
| IOELV (EU) | Long-term value: 308 mg/m ³ , 50 ppm Skin |
| PEL (USA) | Long-term value: 600 mg/m ³ , 100 ppm Skin |
| REL (USA) | Short-term value: 900 mg/m ³ , 150 ppm Long-term value: 600 mg/m ³ , 100 ppm Skin |
| TLV (USA) | Short-term value: 909 mg/m ³ , 150 ppm Long-term value: 606 mg/m ³ , 100 ppm Skin |

37971-36-1 2-phosphonobutane-1,2,4-tricarboxylic acid

| | |
|------------|--|
| WEEL (USA) | Long-term value: 10 mg/m ³ (H) |
|------------|--|

- **DNELs:** No further relevant information available.
- **PNECs:** No further relevant information available.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Avoid breathing mist/vapours/spray.
Avoid contact with the eyes and skin.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:**
Not required under normal conditions of use.
Use suitable respiratory protective device in case of insufficient ventilation.
Use suitable respiratory protective device when aerosol or mist is formed.
For spills, respiratory protection may be advisable.
- **Protection of hands:**



Protective gloves

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Wear protective gloves to handle contents of damaged or leaking units.

· Eye protection:

Safety glasses

· Body protection: Protective work clothing**· Limitation and supervision of exposure into the environment:**

No further relevant information available.

· Risk management measures: See Section 7 for additional information.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties**· Appearance****Form:** Liquid**Colour:** Orange**· Odour:** Citrus.**· Odour threshold:** Not determined.**· pH-value:** 8,00 - 9,00**· Melting point/Melting range:** Not determined.**· Boiling point/Boiling range:** Not determined.**· Flash point:** Not applicable.**· Flammability (solid, gaseous):** Not determined.**· Auto/Self-ignition temperature:** Not determined.**· Decomposition temperature:** Not determined.**· Danger of explosion:** Product does not present an explosion hazard.**· Explosion limits****Lower:** Not determined.**Upper:** Not determined.**· Vapour pressure:** Not applicable.**· Density at 20 °C (68 °F):** 1,01 - 1,03 g/cm³ (8,428 - 8,595 lbs/gal)**· Relative density:** Not determined.**· Vapour density:** Not applicable.**· Evaporation rate:** Not applicable.**· Solubility in / Miscibility with water:**

Soluble.

· Partition coefficient (n-octanol/water): Not determined.**· Viscosity****Dynamic:** Not applicable.

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Kinematic:

Not applicable.

· **9.2 Other information**

No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Reacts with strong acids and oxidising agents.
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong alkali.
Reacts with fats and oils.
- **10.4 Conditions to avoid** Excessive heat.
- **10.5 Incompatible materials** Oxidisers, strong bases, strong acids
- **10.6 Hazardous decomposition products**
Carbon monoxide and carbon dioxide
Chlorine
Phosphorus oxides (e.g. P2O5)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity:** Based on available data, the classification criteria are not met.
 - **LD/LC50 values relevant for classification:**
- | | | |
|--|------|--------------------|
| 61791-10-4 cocoalkylmethyl PEG-15 ammonium chloride | | |
| Oral | LD50 | > 2000 mg/kg (rat) |
- **Primary irritant effect**
 - **Skin corrosion/irritation:** Slight irritant effect on skin and mucous membranes.
 - **Serious eye damage/irritation:**
Causes serious eye irritation.
 - **Respiratory or skin sensitisation:**
May cause an allergic skin reaction.
 - **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **NTP (National Toxicology Program):**

75-21-8 ethylene oxide

K

75-07-0 acetaldehyde

R

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| | |
|---|----------------|
| · OSHA-Ca (Occupational Safety & Health Administration): | |
| 75-21-8 | ethylene oxide |

- **Probable routes of exposure:**

- Ingestion.

- Inhalation

- Eye contact.

- Skin contact.

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

- **Carcinogenicity:** Based on available data, the classification criteria are not met.

- **Reproductive toxicity:** Based on available data, the classification criteria are not met.

- **STOT-single exposure:** Based on available data, the classification criteria are not met.

- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

- **Aspiration hazard:** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

- Toxic to aquatic life with long lasting effects.

| | |
|--|--|
| 61791-10-4 cocoalkylmethyl PEG-15 ammonium chloride | |
| EC50 | 10 - 100 mg/kg (daphnia) |
| | 1-10 mg/kg (Green Algae (chlorophyta)) |

- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

- Avoid transfer into the environment.

- Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

- The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN-Number

- DOT Not Regulated
- ADR, IMDG, IATA UN3082

· 14.2 UN proper shipping name

- DOT Not Regulated
- ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Orange oil)
- IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Orange oil), MARINE POLLUTANT
- IATA Environmentally hazardous substance, liquid, n.o.s. (Orange oil)

· 14.3 Transport hazard class(es)

- DOT Not Regulated
- Class

· ADR



- Class 9 (M6) Miscellaneous dangerous substances and articles.
- Label 9

· IMDG, IATA



- Class 9 Miscellaneous dangerous substances and articles.
- Label 9

· 14.4 Packing group

- DOT Not Regulated
- ADR, IMDG, IATA III

· 14.5 Environmental hazards:

Product contains environmentally hazardous substances: Orange oil

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| | |
|--|--|
| · Marine pollutant: | Yes Symbol (fish and tree) |
| · 14.6 Special precautions for user | Warning: Miscellaneous dangerous substances and articles. |
| · Danger code (Kemler): | 90 |
| · EMS Number: | F-A,S-F |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · Transport/Additional information: | Not regulated when carried in single or combination packaging containing a net quantity of 5 L or less for liquids or 5 kg or less for solids per the following: DOT: 171.4(c)(2) ADR: SP 375 IMDG: 2.10.2.7 IATA: special provision A197 |
| · DOT | |
| · Remarks: | Transport labeling is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) for a liquid and a maximum net mass greater than 400kg (882 pounds) for a solid. |

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- United States (USA)
- SARA

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65 (California):

· Chemicals known to cause cancer:

Present in trace quantities.

75-21-8 ethylene oxide

75-07-0 acetaldehyde

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· **Chemicals known to cause reproductive toxicity for females:**

Present in trace quantities.

| | |
|---------|----------------|
| 75-21-8 | ethylene oxide |
|---------|----------------|

· **Chemicals known to cause reproductive toxicity for males:**

Present in trace quantities.

| | |
|---------|----------------|
| 75-21-8 | ethylene oxide |
|---------|----------------|

· **Chemicals known to cause developmental toxicity:**

Present in trace quantities.

| | |
|---------|----------------|
| 75-21-8 | ethylene oxide |
|---------|----------------|

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients are listed.

· **IARC (International Agency for Research on Cancer)**

Present in trace quantities.

| | | |
|---------|----------------|---|
| 75-21-8 | ethylene oxide | 1 |
|---------|----------------|---|

| | | |
|---------|--------------|----|
| 75-07-0 | acetaldehyde | 2B |
|---------|--------------|----|

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Present in trace quantities.

| | |
|---------|----------------|
| 75-21-8 | ethylene oxide |
|---------|----------------|

| | |
|---------|--------------|
| 75-07-0 | acetaldehyde |
|---------|--------------|

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients are listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H226 Flammable liquid and vapour.

H290 May be corrosive to metals.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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H411 Toxic to aquatic life with long lasting effects.

- **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 LDLo: Lowest Lethal Dose Observed
 Flam. Liq. 3: Flammable liquids – Category 3
 Met. Corr. 1: Corrosive to metals – Category 1
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Skin Sens. 1: Skin sensitisation – Category 1
 Asp. Tox. 1: Aspiration hazard – Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- **Sources**

Website, European Chemicals Agency (echa.europa.eu)
 Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor_internet/registry/substreg/home/overview/home.do)
 Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
 Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.
 Safety Data Sheets, Individual Manufacturers

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