

# NAPA MAC'S ENGINE DEGREASER 16 OZ.

## Safety Data Sheet

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

Issue date: 08/21/2023

Revision date: 04/03/2023

Supersedes: 07/27/2023

Version: 1.3

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : NAPA MAC'S ENGINE DEGREASER 16 OZ.  
Product code : 6210

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

Use of the substance/mixture : Degreaser

#### 1.3. Details of the supplier of the safety data sheet

NAPA Auto Parts  
2999 Wildwood Pkwy  
Atlanta, GA 30339  
T 678-934-5000

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Gases under pressure Compressed gas	H280	Contains gas under pressure; may explode if heated
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2B	H320	Causes eye irritation
Germ cell mutagenicity Category 1B	H340	May cause genetic defects
Carcinogenicity Category 1A	H350	May cause cancer

Full text of H- and EUH-statements: see section 16

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H280 - Contains gas under pressure; may explode if heated  
H315 - Causes skin irritation  
H320 - Causes eye irritation  
H340 - May cause genetic defects  
H350 - May cause cancer

Precautionary statements (GHS US) :

P201 - Obtain special instructions  
P202 - Do not handle until all safety precautions have been read and understood.  
P264 - Wash affected areas thoroughly after handling  
P280 - Wear protective gloves, protective clothing, eye protection, face protection  
P302+P352 - If on skin: 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.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P321 - Specific treatment: See section 4.1 on SDS  
P332+P313 - If skin irritation 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.  
P405 - Store locked up.  
P410+P403 - Protect from sunlight. Store in a well-ventilated place.  
P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

#### 2.3. Other hazards

Other hazards which do not result in classification : Contains gas under pressure; may explode if heated. None under normal conditions.

#### 2.4. Unknown acute toxicity (GHS US)

No data available

# NAPA MAC'S ENGINE DEGREASER 16 OZ.

## Safety Data Sheet

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

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Water	(CAS-No.) 7732-18-5	85 – 95	Not classified
Petroleum Gases, Liquefied, Sweetened	(CAS-No.) 68476-86-8	1 – 5	Flam. Gas 1, H220 Press. Gas (Comp.), H280 Muta. 1B, H340 Carc. 1A, H350
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:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Tergitol NP-9	(CAS-No.) 127087-87-0	< 1	Acute Tox. 4 (Oral), H302
Nonlyphenol Ethoxylate	(CAS-No.) 127087-87-0	< 1	Not classified
Ammonium Hydroxide, Aqueous Solution, Conc=25%	(CAS-No.) 1336-21-6	< 1	Skin Corr. 1B, H314 Aquatic Acute 1, H400
Sodium Hydroxide, Conc=50%, Aqueous Solution	(CAS-No.) 1310-73-2	< 1	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401
Polyethylene Glycol 200-600	(CAS-No.) 25322-68-3	≤ 0.029	Not classified
Nonyl Nonoxynol-5	(CAS-No.) 9014-93-1	≤ 0.019	Not classified
1,4-Dioxane	(CAS-No.) 123-91-1	≤ 0	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335
Ethylene Oxide	(CAS-No.) 75-21-8	≤ 0	Flam. Gas 1, H220 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1, H314 Muta. 1B, H340 Carc. 1A, H350 STOT SE 3, H336 STOT SE 3, H335 STOT RE 1, H372

### SECTION 4: First aid measures

#### 4.1. 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).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: May cause irritation or asthma-like symptoms.
Symptoms/effects after skin contact	: Itching. Red skin. Skin rash/inflammation. Causes skin irritation.
Symptoms/effects after eye contact	: Irritation of the eye tissue. Redness of the eye tissue. Inflammation/damage of the eye tissue. Causes eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed and enters airways.

#### 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	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

# NAPA MAC'S ENGINE DEGREASER 16 OZ.

## Safety Data Sheet

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

### 5.2. Special hazards arising from the substance or mixture

### 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.
- Other information : NFPA Aerosol Level 1.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Use special care to avoid static electric charges.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Gloves. Safety glasses.
- 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 : Dam up the liquid spill. Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply.
- Methods for cleaning up : Store away from other materials.

### 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

- Additional hazards when processed : Pressurized container: Do not pierce or burn, even after use.
- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Always wash hands after handling the product. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Take off immediately all contaminated clothing and wash it before reuse. Observe normal hygiene standards. Keep container tightly closed. Observe strict hygiene. Observe very strict hygiene - avoid contact. Reduce/avoid exposure and/or contact. Avoid prolonged and repeated contact with skin. Wash affected areas thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.
- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.
- Storage area : Store in a well-ventilated place.

### 7.3. Specific end use(s)

Follow Label Directions.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>NAPA MAC'S ENGINE DEGREASER 16 OZ.</b>	
No additional information available	
<b>Petroleum Gases, Liquefied, Sweetened (68476-86-8)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA [ppm]	1000 ppm Listed under Aliphatic hydrocarbon gases alkane C1-C4
<b>USA - OSHA - Occupational Exposure Limits</b>	
OSHA PEL (TWA) [1]	1800 mg/m <sup>3</sup>

# NAPA MAC'S ENGINE DEGREASER 16 OZ.

## Safety Data Sheet

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

OSHA PEL (TWA) [2]	1000 ppm
<b>USA - NIOSH - Occupational Exposure Limits</b>	
NIOSH REL (TWA)	1800 mg/m <sup>3</sup>
NIOSH REL TWA [ppm]	1000 ppm
<b>2-Butoxyethanol (111-76-2)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA	97 mg/m <sup>3</sup>
ACGIH OEL TWA [ppm]	20 ppm (2-Butoxyethanol (EGBE); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
<b>USA - OSHA - Occupational Exposure Limits</b>	
OSHA PEL (TWA) [1]	240 mg/m <sup>3</sup>
OSHA PEL (TWA) [2]	50 ppm
<b>USA - NIOSH - Occupational Exposure Limits</b>	
NIOSH REL (TWA)	24 mg/m <sup>3</sup>
NIOSH REL TWA [ppm]	5 ppm
<b>Polyethylene Glycol 200-600 (25322-68-3)</b>	
No additional information available	
<b>Nonyl Nonoxynol-5 (9014-93-1)</b>	
No additional information available	
<b>Nonlyphenol Ethoxylate (127087-87-0)</b>	
No additional information available	
<b>Ammonium Hydroxide, Aqueous Solution, Conc=25% (1336-21-6)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA [ppm]	24 ppm
ACGIH OEL STEL [ppm]	35 ppm
<b>USA - OSHA - Occupational Exposure Limits</b>	
OSHA PEL (TWA) [2]	50 ppm
<b>Water (7732-18-5)</b>	
No additional information available	
<b>Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)</b>	
No additional information available	
<b>Tergitol NP-9 (127087-87-0)</b>	
No additional information available	
<b>1,4-Dioxane (123-91-1)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA [ppm]	20 ppm
<b>Ethylene Oxide (75-21-8)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA [ppm]	1 ppm

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Local exhaust ventilation, vent hoods . Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Gloves. Safety glasses. Avoid all unnecessary exposure.

#### Materials for protective clothing:

Excellent resistance:

#### Hand protection:

Wear protective gloves

#### Eye protection:

Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing

# NAPA MAC'S ENGINE DEGREASER 16 OZ.

## Safety Data Sheet

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

### Respiratory protection:

Wear appropriate mask

### Personal protective equipment symbol(s):



### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Gas
Appearance	: Liquid.
Color	: Milky.
Odor	: Mild . Characteristic.
Odor threshold	: No data available
pH	: 11
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: -31.1 °C (Propellant)
Flash point	: -128.9 °C (Propellant)
Auto-ignition temperature	: 237.8 °C (Propellant)
Decomposition temperature	: No data available
Flammability	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.99
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

### 9.2. Other information

VOC content	: < 8 %
Gas group	: Compressed gas

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide.

# NAPA MAC'S ENGINE DEGREASER 16 OZ.

## Safety Data Sheet

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

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

<b>2-Butoxyethanol (111-76-2)</b>	
LD50 oral rat	1300 mg/kg
LD50 dermal rat	> 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
LD50 dermal rabbit	435 mg/kg (435 mg/kg bodyweight; Rabbit; Rabbit; Experimental value,435 mg/kg bodyweight; Rabbit; Rabbit; Experimental value)
LC50 Inhalation - Rat	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)	1300 mg/kg body weight
ATE US (dermal)	435 mg/kg body weight
ATE US (vapors)	2.17 mg/l/4h
ATE US (dust, mist)	2.17 mg/l/4h

<b>Polyethylene Glycol 200-600 (25322-68-3)</b>	
LD50 oral rat	> 15000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 20000 mg/kg (Rabbit, Dermal)

<b>Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)</b>	
ATE US (dermal)	1100 mg/kg body weight

<b>1,4-Dioxane (123-91-1)</b>	
LC50 Inhalation - Rat	> 155 mg/l (Equivalent or similar to OECD 403, 1 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))

<b>Ethylene Oxide (75-21-8)</b>	
LD50 oral rat	330 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Aqueous solution, Oral, 14 day(s))
LC50 Inhalation - Rat [ppm]	1741 ppm (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (gases), 14 day(s))
ATE US (oral)	100 mg/kg body weight
ATE US (gases)	1741 ppmV/4h
ATE US (vapors)	3 mg/l/4h
ATE US (dust, mist)	0.5 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.  
pH: 11  
Serious eye damage/irritation : Causes eye irritation.  
pH: 11  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : May cause genetic defects.  
Carcinogenicity : May cause cancer.

<b>2-Butoxyethanol (111-76-2)</b>	
IARC group	3 - Not classifiable

<b>1,4-Dioxane (123-91-1)</b>	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

<b>Ethylene Oxide (75-21-8)</b>	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	Known Human Carcinogens

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

<b>Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)</b>	
STOT-single exposure	May cause respiratory irritation.

<b>1,4-Dioxane (123-91-1)</b>	
STOT-single exposure	May cause respiratory irritation.

# NAPA MAC'S ENGINE DEGREASER 16 OZ.

## Safety Data Sheet

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

<b>Ethylene Oxide (75-21-8)</b>	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
STOT-repeated exposure	: Not classified
<b>Ethylene Oxide (75-21-8)</b>	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects after inhalation	: May cause irritation or asthma-like symptoms.
Symptoms/effects after skin contact	: Itching. Red skin. Skin rash/inflammation. Causes skin irritation.
Symptoms/effects after eye contact	: Irritation of the eye tissue. Redness of the eye tissue. Inflammation/damage of the eye tissue. Causes eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed and enters airways.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Polyethylene Glycol 200-600 (25322-68-3)</b>	
LC50 - Fish [1]	> 5000 mg/l (24 h, Carassius auratus)
<b>1,4-Dioxane (123-91-1)</b>	
LC50 - Fish [1]	10800 mg/l (96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	> 1000 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Nominal concentration)
<b>Ethylene Oxide (75-21-8)</b>	
LC50 - Fish [1]	84 mg/l (EPA 660/3 - 75/009, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Lethal)
ErC50 algae	240 mg/l (EPA 660/3 - 75/009, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)

### 12.2. Persistence and degradability

<b>NAPA MAC'S ENGINE DEGREASER 16 OZ.</b>	
Persistence and degradability	Not established.
<b>Petroleum Gases, Liquefied, Sweetened (68476-86-8)</b>	
Persistence and degradability	Not established.
<b>2-Butoxyethanol (111-76-2)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.71 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.2 g O <sub>2</sub> /g substance
ThOD	2.305 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.31
<b>Polyethylene Glycol 200-600 (25322-68-3)</b>	
Persistence and degradability	Biodegradability in water: no data available. Not established.
<b>Nonyl Nonoxynol-5 (9014-93-1)</b>	
Persistence and degradability	Not established.
<b>Nonlyphenol Ethoxylate (127087-87-0)</b>	
Persistence and degradability	Not established.
<b>Ammonium Hydroxide, Aqueous Solution, Conc=25% (1336-21-6)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established.
<b>Water (7732-18-5)</b>	
Persistence and degradability	Not established.
<b>Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)</b>	
Persistence and degradability	Not established.

# NAPA MAC'S ENGINE DEGREASER 16 OZ.

## Safety Data Sheet

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

<b>1,4-Dioxane (123-91-1)</b>	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil. Photooxidation in the air. Not established.
BOD (% of ThOD)	0
<b>Ethylene Oxide (75-21-8)</b>	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.06 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.74 g O <sub>2</sub> /g substance
ThOD	2.02 g O <sub>2</sub> /g substance

### 12.3. Bioaccumulative potential

<b>NAPA MAC'S ENGINE DEGREASER 16 OZ.</b>	
Bioaccumulative potential	Not established.
<b>Petroleum Gases, Liquefied, Sweetened (68476-86-8)</b>	
Bioaccumulative potential	Not established.
<b>2-Butoxyethanol (111-76-2)</b>	
Partition coefficient n-octanol/water (Log Pow)	0.81 (Experimental value; BASF test; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>Polyethylene Glycol 200-600 (25322-68-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.2
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
<b>Nonyl Nonoxynol-5 (9014-93-1)</b>	
Bioaccumulative potential	Not established.
<b>Nonlyphenol Ethoxylate (127087-87-0)</b>	
Bioaccumulative potential	Not established.
<b>Ammonium Hydroxide, Aqueous Solution, Conc=25% (1336-21-6)</b>	
Bioaccumulative potential	Not bioaccumulative. Not established.
<b>Water (7732-18-5)</b>	
Bioaccumulative potential	Not established.
<b>Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)</b>	
Bioaccumulative potential	Not established.
<b>1,4-Dioxane (123-91-1)</b>	
BCF - Fish [1]	0.2 – 0.7 (OECD 305: Bioconcentration: Flow-Through Fish Test, Cyprinus carpio, Flow-through system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	-0.42 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500). Not established.
<b>Ethylene Oxide (75-21-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	-0.3 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Not bioaccumulative.

### 12.4. Mobility in soil

<b>2-Butoxyethanol (111-76-2)</b>	
Surface tension	0.027 N/m (25 °C)
<b>Ammonium Hydroxide, Aqueous Solution, Conc=25% (1336-21-6)</b>	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the component(s) available.
<b>Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)</b>	
Ecology - soil	No (test)data on mobility of the component(s) available.
<b>1,4-Dioxane (123-91-1)</b>	
Surface tension	37 mN/m (20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.42 (log Koc, SRC PCKOCWIN v2.0, Estimated value)
Ecology - soil	Highly mobile in soil.

# NAPA MAC'S ENGINE DEGREASER 16 OZ.

## Safety Data Sheet

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

Ethylene Oxide (75-21-8)	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.51 – 0.67 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

### 12.5. Other adverse effects

Effect on global warming : No known effects from this product.

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. . Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

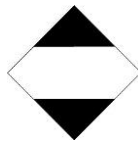
US DOT (ground) (DOT) : UN1950 Aerosols (Non-flammable, (each not exceeding 1 L capacity)), 2.2, Limited Quantity

UN-No.(DOT) : UN1950

Proper Shipping Name (DOT) : Aerosols  
Non-flammable, (each not exceeding 1 L capacity)

Class (DOT) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115

Hazard labels (DOT) : LTD QTY - Limited quantity



DOT Packaging Non Bulk (49 CFR 173.xxx) : None

DOT Packaging Bulk (49 CFR 173.xxx) : None

DOT Packaging Exceptions (49 CFR 173.xxx) : 306

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other : 48 - Stow "away from" sources of heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials

Other information : No supplementary information available.

### Transport by sea

UN-No. (IMDG) : 1950

Proper Shipping Name (IMDG) : Aerosols

Class (IMDG) : 2.2 - Non-flammable, non-toxic gases

### Air transport

UN-No. (IATA) : 1950

Proper Shipping Name (IATA) : Aerosols

Class (IATA) : 2.2 - Gases : Non-flammable, non-toxic

# NAPA MAC'S ENGINE DEGREASER 16 OZ.

## Safety Data Sheet

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

Hazard labels (IATA)

: LTD QTY - Limited Quantity



### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

<b>NAPA MAC'S ENGINE DEGREASER 16 OZ.</b>	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Sudden release of pressure hazard
<b>Petroleum Gases, Liquefied, Sweetened (68476-86-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard Sudden release of pressure hazard
<b>2-Butoxyethanol (111-76-2)</b>	
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 Fire hazard
<b>Polyethylene Glycol 200-600 (25322-68-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
<b>Nonyl Nonoxynol-5 (9014-93-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
<b>Nonlyphenol Ethoxylate (127087-87-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	5 % Glycol Ethers
<b>Ammonium Hydroxide, Aqueous Solution, Conc=25% (1336-21-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1000 lb
<b>Water (7732-18-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
CERCLA RQ	1000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
<b>1,4-Dioxane (123-91-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	100 lb
SARA Section 313 - Emission Reporting	1 %

# NAPA MAC'S ENGINE DEGREASER 16 OZ.

## Safety Data Sheet

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

### Ethylene Oxide (75-21-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Subject to reporting requirements of United States SARA Section 313

CERCLA RQ	10 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb
SARA Section 313 - Emission Reporting	1 %

## 15.2. International regulations

### CANADA

#### NAPA MAC'S ENGINE DEGREASER 16 OZ.

WHMIS Classification | Class A - Compressed Gas

#### Petroleum Gases, Liquefied, Sweetened (68476-86-8)

Listed on the Canadian DSL (Domestic Substances List)

#### 2-Butoxyethanol (111-76-2)

Listed on the Canadian DSL (Domestic Substances List)

#### Polyethylene Glycol 200-600 (25322-68-3)

Listed on the Canadian DSL (Domestic Substances List)

#### Nonyl Nonoxynol-5 (9014-93-1)

Listed on the Canadian DSL (Domestic Substances List)

#### Nonlyphenol Ethoxylate (127087-87-0)

Listed on the Canadian DSL (Domestic Substances List)

#### Ammonium Hydroxide, Aqueous Solution, Conc=25% (1336-21-6)

Listed on the Canadian DSL (Domestic Substances List)

#### Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

#### Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification | Class E - Corrosive Material

#### 1,4-Dioxane (123-91-1)

Listed on the Canadian DSL (Domestic Substances List)

#### Ethylene Oxide (75-21-8)

Listed on the Canadian DSL (Domestic Substances List)

## EU-Regulations

#### 2-Butoxyethanol (111-76-2)

#### Polyethylene Glycol 200-600 (25322-68-3)

#### Nonyl Nonoxynol-5 (9014-93-1)

#### Nonlyphenol Ethoxylate (127087-87-0)

#### Ammonium Hydroxide, Aqueous Solution, Conc=25% (1336-21-6)

#### Water (7732-18-5)

#### Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)

#### 1,4-Dioxane (123-91-1)

#### Ethylene Oxide (75-21-8)

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

Not classified

## Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

### 15.2.2. National regulations

#### 2-Butoxyethanol (111-76-2)

#### Polyethylene Glycol 200-600 (25322-68-3)

#### Nonyl Nonoxynol-5 (9014-93-1)

#### Nonlyphenol Ethoxylate (127087-87-0)

#### Ammonium Hydroxide, Aqueous Solution, Conc=25% (1336-21-6)

# NAPA MAC'S ENGINE DEGREASER 16 OZ.

## Safety Data Sheet

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

### Water (7732-18-5)

### Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)

### 1,4-Dioxane (123-91-1)

Listed on IARC (International Agency for Research on Cancer)  
Listed as carcinogen on NTP (National Toxicology Program)  
Listed on EPA Hazardous Air Pollutant (HAPS)

### Ethylene Oxide (75-21-8)

Listed on IARC (International Agency for Research on Cancer)  
Listed as carcinogen on NTP (National Toxicology Program)  
Listed on EPA Hazardous Air Pollutant (HAPS)

## 15.3. US State regulations

### NAPA MAC'S ENGINE DEGREASER 16 OZ.( )

U.S. - California - Proposition 65 - Carcinogens List	Yes
U.S. - California - Proposition 65 - Developmental Toxicity	Yes
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	Yes
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Yes
State or local regulations	U.S. - California - Proposition 65

### Petroleum Gases, Liquefied, Sweetened (68476-86-8)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

### 2-Butoxyethanol (111-76-2)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

### Polyethylene Glycol 200-600 (25322-68-3)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

### Nonyl Nonoxynol-5 (9014-93-1)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

### Nonlyphenol Ethoxylate (127087-87-0)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

### Ammonium Hydroxide, Aqueous Solution, Conc=25% (1336-21-6)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

# NAPA MAC'S ENGINE DEGREASER 16 OZ.

## Safety Data Sheet

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

<b>Water (7732-18-5)</b>				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
<b>Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)</b>				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
<b>1,4-Dioxane (123-91-1)</b>				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	
<b>Ethylene Oxide (75-21-8)</b>				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	Yes	Yes	Yes	
<b>2-Butoxyethanol (111-76-2)</b>				
<b>State or local regulations</b>				
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New York City - Right to Know Hazardous Substances List U.S. - Pennsylvania - RTK (Right to Know) List				
<b>Ammonium Hydroxide, Aqueous Solution, Conc=25% (1336-21-6)</b>				
<b>State or local regulations</b>				
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS) U.S. - New York City - Right to Know Hazardous Substances List U.S. - Pennsylvania - RTK (Right to Know) List				
<b>Sodium Hydroxide, Conc=50%, Aqueous Solution (1310-73-2)</b>				
<b>State or local regulations</b>				
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New York City - Right to Know Hazardous Substances List U.S. - Pennsylvania - RTK (Right to Know) List				
<b>1,4-Dioxane (123-91-1)</b>				
<b>State or local regulations</b>				
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Idaho - Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New York City - Right to Know Hazardous Substances List U.S. - Pennsylvania - RTK (Right to Know) List				
<b>Ethylene Oxide (75-21-8)</b>				
<b>State or local regulations</b>				
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Idaho - Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS)				

# NAPA MAC'S ENGINE DEGREASER 16 OZ.

## Safety Data Sheet

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

### Ethylene Oxide (75-21-8)

U.S. – New York City – Right to Know Hazardous Substances List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - West Virginia - Air Quality - Toxic Air Pollutant Emission Limits

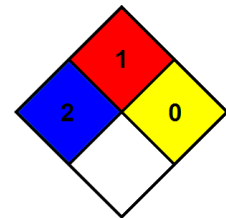
## SECTION 16: Other information

Other information : None.

Full text of H-phrases:

H220	Extremely flammable gas
H225	Highly flammable liquid and vapor
H227	Combustible liquid
H280	Contains gas under pressure; may explode if heated
H301	Toxic if swallowed
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
H320	Causes eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.  
NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.  
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



### Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur  
Flammability : 1 Slight Hazard  
Physical : 1 Slight Hazard  
Personal protection : B