

00/00/0044 Versio

	Revision date: 08/26/2014 : Version
SECTION 1: Identification of the sub	ostance/mixture and of the company/undertaking
.1. Product identifier	
Product form	: Mixture
rade name	: MASTER ENGINE DEGREASER 15 OZ.
Product code	: EC-16
.2. Relevant identified uses of the sub	stance or mixture and uses advised against
Jse of the substance/mixture	: Degreaser
.3. Details of the supplier of the safety	-
Aaster Chemical 635 Willow Drive Aedina, MN 55340 - USA 7: 612-478-2360	
.4. Emergency telephone number	
mergency number	: CHEMTREC 24 Hour 1-800-424-9300
SECTION 2: Hazards identification	
2.1. Classification of the substance or r	nixtura
	IIIAMIV
Classification (GHS-US)	
Compressed gas H280 Skin Irrit. 2 H315 Sye Irrit. 2B H320 Auta. 1B H340 Carc. 1A H350	
ull text of H-phrases: see section 16	
.2. Label elements	
GHS-US labeling	
	GHS04 GHS07 GHS08
Signal word (GHS-US)	: Danger
lazard 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 this label P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362 - Take off contaminated clothing and wash 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.
.3. Other hazards	
Other hazards not contributing to the lassification	: Contains gas under pressure; may explode if heated.
2.4. Unknown acute toxicity (GHS-US)	

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. **Mixture Product identifier Classification (GHS-US)** Name % 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 Flam. Liq. 1, H224 Muta. 1B, H340 Carc. 1A, H350 Flam. Liq. 4, H227 2-butoxyethanol (CAS No) 111-76-2 1 - 5 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Nonlyphenol Ethoxylate (CAS No) 127087-87-0 Eye Irrit. 2B, H320 < 1 ammonium hydroxide, aqueous solution, conc=25% (CAS No) 1336-21-6 < 1 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 sodium hydroxide, conc=50%, aqueous solution (CAS No) 1310-73-2 0.0132 -0.1236 Aquatic Acute 2, H401 polyethylene glycol 200-600 (CAS No) 25322-68-3 <= 0.0288 Not classified Not classified NONYL NONOXYNOL-5 <= 0.0192 (CAS No) 9014-93-1 sodium chloride 0 - 0.012 (CAS No) 7647-14-5 Not classified

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	: Assure fresh air breathing. 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 eff	ects, both acute and delayed
Symptoms/injuries	: May cause genetic defects.
Symptoms/injuries after inhalation	: May cause cancer by inhalation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
4.3. Indication of any immediate medic	al 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.
5.2. Special hazards arising from the substance or mixture	
No additional information available	
5.3. Advice for firefighters	
	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
5.3. Advice for firefighters Firefighting instructions Protection during firefighting	

6.1.	Personal preca	utions, protective equipment and emergency procedures
General	measures	: Remove ignition sources. Use special care to avoid static electric charges.

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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. No	tify authorities if liquid enters sewers or public waters.	
6.3. Methods and material for contain	nent and cleaning up	
For containment	: Dam up the liquid spill.	
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.	
6.4. Reference to other sections		
See Heading 8. Exposure controls and person	al protection.	
SECTION 7: Handling and storage		
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SECTION 7: Handling and storage7.1.Precautions for safe handling		
	: Pressurized container: Do not pierce or burn, even after use.	
7.1. Precautions for safe handling	 Pressurized container: Do not pierce or burn, even after use. 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. Obtain special instructions . Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. 	
7.1. Precautions for safe handling Additional hazards when processed	: 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. Obtain special instructions . Do not handle until all safety precautions have been read and	
7.1. Precautions for safe handling Additional hazards when processed 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. Obtain special instructions . Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Wash affected areas thoroughly after handling. 	
7.1.Precautions for safe handlingAdditional hazards when processedPrecautions for safe handlingHygiene measures	 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. Obtain special instructions . Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Wash affected areas thoroughly after handling. 	
7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inclusion	 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. Obtain special instructions . Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Wash affected areas thoroughly after handling. ding any incompatibilities Keep only in the original container in a cool, well ventilated place away from : Keep container 	
7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inclue Storage conditions	 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. Obtain special instructions . Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Wash affected areas thoroughly after handling. ding any incompatibilities Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. 	

Specific end use(s) 7.3.

Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Petroleum gases, liquefied, sweetened (68476-86-8)		
USA ACGIH	ACGIH TWA (ppm)	1000 ppm Listed under Aliphatic hydrocarbon gases alkane C1-C4
USA OSHA	OSHA PEL (TWA) (mg/m³)	1800 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

2-butoxyethanol (111-76-2)		
USA ACGIH	ACGIH TWA (mg/m³)	97 mg/m³
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA ACGIH	ACGIH STEL (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	240 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm

sodiu	sodium hydroxide, conc=50%, aqueous solution (1310-73-2)		
USA ACGIH		ACGIH Ceiling (mg/m³)	2 mg/m³
8.2.	8.2. Exposure controls		

Appropriate engineering controls

Personal protective equipment

- : Local exhaust venilation, vent hoods.
- : Gloves. Safety glasses. Avoid all unnecessary exposure.



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Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear appropriate mask.
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	
рН	: 10	
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: -31.1 °C (Lowest Component)	
Flash point	: -128.9 °C (Lowest Component)	
Auto-ignition temperature	: 237.8 °C (Lowest Component)	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: 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.	
Log Pow	: No data available	
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	
Explosive limits	: No data available	
9.2. Other information		
VOC content	: 7.7 %	

SECTIO	N 10: Stability and reactivity		
10.1. I	Reactivity		
No addition	No additional information available		
10.2.	Chemical stability		
Not establi	Not established.		
10.3. I	Possibility of hazardous reactions		
Not establi	Not established.		
10.4.	Conditions to avoid		
Direct sun	Direct sunlight. Extremely high or low temperatures.		
10.5. I	. Incompatible materials		
Strong aci	ds. Strong bases.		
10.6. I	Hazardous decomposition products		
Toxic fume Carbon monoxide. Carbon dioxide.			
SECTION 11: Toxicological information			
11.1. I	Information on toxicological effects		
Acute toxic	city :	Not classified	

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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 (435 mg/kg bodyweight; Rabbit; Rabbit; Experimental value,435 mg/kg bodyweight; Rabbit; Rabbit; Experimental value)	
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	
polyethylene glycol 200-600 (25322-68-3)		
LD50 oral rat	> 15000 mg/kg (Rat)	
LD50 dermal rabbit	> 20000 mg/kg (Rabbit)	
sodium chloride (7647-14-5)		
LD50 oral rat	3000 mg/kg (Rat; Experimental value; 3550 mg/kg bodyweight; Rat; Experimental value)	
LD50 dermal rabbit	> 10000 mg/kg (Rabbit; Experimental value)	
Skin corrosion/irritation	: Causes skin irritation.	
	pH: 10	
Serious eye damage/irritation	: Causes eye irritation.	
	pH: 10	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: May cause genetic defects. Based on available data, the classification criteria are not met	
Carcinogenicity	: May cause cancer.	
2-butoxyethanol (111-76-2)		
IARC group	3	
Reproductive toxicity	: Not classifiedBased on available data, the classification criteria are not met	
Specific target organ toxicity (single exposure)	: Not classified	
Specific target organ toxicity (repeated exposure)	: Not classifiedBased on available data, the classification criteria are not met	
Aspiration hazard	: Not classifiedBased on available data, the classification criteria are not met	
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.	
Symptoms/injuries after inhalation	: May cause cancer by inhalation.	
Symptoms/injuries after skin contact	: Causes skin irritation.	

Symptoms/injuries after eye contact : Causes eye irritation.

SECTION 12: Ecological information

^{12.1.} Toxicity

2-butoxyethanol (111-76-2)		
LC50 fish 1	116 ppm (96 h; Cyprinodon variegatus; Nominal concentration)	
EC50 Daphnia 1	1700 mg/l (48 h; Daphnia sp.; Nominal concentration)	
LC50 fish 2	1341 ppm (96 h; Lepomis macrochirus)	
EC50 Daphnia 2	1720 mg/l (24 h; Daphnia magna)	
TLM fish 1	100 - 1000,96 h; Pisces	
TLM other aquatic organisms 1	100 - 1000,96 h	
Threshold limit algae 1	900 mg/l (168 h; Scenedesmus quadricauda)	
Threshold limit algae 2	35 mg/l (192 h; Microcystis aeruginosa)	
polyethylene glycol 200-600 (25322-68-3)		
LC50 fish 1	> 1000 mg/l (96 h; Pisces)	
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)	
LC50 fish 2	> 5000 mg/l (24 h; Carassius auratus)	
Threshold limit other aquatic organisms 1	<= 100 mg/l (96 h; Plankton)	
Threshold limit other aquatic organisms 2	> 1000 mg/l	
Threshold limit algae 2	500 mg/l (720 h; Algae; No effect)	
sodium hydroxide, conc=50%, aqueous so	lution (1310-73-2)	
LC50 fish 1	45.4 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
LC50 other aquatic organisms 1	100 mg/l (48 h; Daphnia magna; Pure substance)	
LC50 fish 2	189 mg/l (48 h; Leuciscus idus)	
TLM fish 1	125 ppm (96 h; Gambusia affinis; Pure substance)	
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sodium hydroxide, conc=50%, aqueous sol	lution (1310-73-2)
TLM fish 2	99 mg/l (48 h; Lepomis macrochirus; Pure substance)
Threshold limit other aquatic organisms 1	100 mg/l (48 h; Daphnia magna; Pure substance)
sodium chloride (7647-14-5)	
LC50 fish 1	11100 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	1000 mg/l (48 h; Daphnia magna)
LC50 fish 2	5840 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 2	340.7 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	4967 mg/l (72 h; Algae; Inhibitory)
Threshold limit algae 2	2430 mg/l (120 h; Algae)
2.2. Persistence and degradability	
MASTER ENGINE DEGREASER 15 OZ.	
Persistence and degradability	Not established.
• •	
Petroleum gases, liquefied, sweetened (684	-
Persistence and degradability	Not established.
2-butoxyethanol (111-76-2)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.71 g O ₂ /g substance
Chemical oxygen demand (COD)	2.20 g O ₂ /g substance
ThOD	2.305 g O ₂ /g substance
BOD (% of ThOD)	0.31 % ThOD
polyethylene glycol 200-600 (25322-68-3)	
Persistence and degradability	Biodegradability in water: no data available.
NONYL NONOXYNOL-5 (9014-93-1)	
Persistence and degradability	Not established.
	Not established.
Nonlyphenol Ethoxylate (127087-87-0) Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability	
Persistence and degradability ammonium hydroxide, aqueous solution, c	:onc=25% (1336-21-6)
Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability	conc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the
Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5)	conc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the
Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5) Persistence and degradability	conc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established.
Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5) Persistence and degradability sodium hydroxide, conc=50%, aqueous solution	conc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established. Iution (1310-73-2)
Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5) Persistence and degradability sodium hydroxide, conc=50%, aqueous sol Persistence and degradability	conc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established. Iution (1310-73-2) Biodegradability: not applicable. No (test)data on mobility of the components available.
Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5) Persistence and degradability sodium hydroxide, conc=50%, aqueous sol Persistence and degradability Biochemical oxygen demand (BOD)	conc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established. Iution (1310-73-2) Biodegradability: not applicable. No (test)data on mobility of the components available. Not applicable
Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5) Persistence and degradability sodium hydroxide, conc=50%, aqueous sol Persistence and degradability	conc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established. Iution (1310-73-2) Biodegradability: not applicable. No (test)data on mobility of the components available. Not applicable Not applicable
Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5) Persistence and degradability sodium hydroxide, conc=50%, aqueous sol Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD	conc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established. Iution (1310-73-2) Biodegradability: not applicable. No (test)data on mobility of the components available. Not applicable
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Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5) Persistence and degradability sodium hydroxide, conc=50%, aqueous sol Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) sodium chloride (7647-14-5)	conc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established. Iution (1310-73-2) Biodegradability: not applicable. No (test)data on mobility of the components available. Not applicable Not applicable Not applicable Not applicable
Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5) Persistence and degradability sodium hydroxide, conc=50%, aqueous sol Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) sodium chloride (7647-14-5) Persistence and degradability	conc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established. Iution (1310-73-2) Biodegradability: not applicable. No (test)data on mobility of the components available. Not applicable Not applicable Not applicable Not applicable Biodegradability: not applicable. No (test)data on mobility of the substance available.
Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5) Persistence and degradability sodium hydroxide, conc=50%, aqueous sol Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) sodium chloride (7647-14-5) Persistence and degradability Biochemical oxygen demand (BOD)	conc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established. Iution (1310-73-2) Biodegradability: not applicable. No (test)data on mobility of the components available. Not applicable Not applicable Not applicable Biodegradability: not applicable. No (test)data on mobility of the substance available. Not applicable Not applicable Not applicable Not applicable Not applicable
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Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5) Persistence and degradability sodium hydroxide, conc=50%, aqueous sol Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) sodium chloride (7647-14-5) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD	conc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established. Iution (1310-73-2) Biodegradability: not applicable. No (test)data on mobility of the components available. Not applicable Not applicable Not applicable Biodegradability: not applicable. No (test)data on mobility of the substance available. Not applicable Not applicable Not applicable Not applicable Not applicable
Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5) Persistence and degradability sodium hydroxide, conc=50%, aqueous sol Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) sodium chloride (7647-14-5) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) BOD (% of ThOD)	conc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established. Iution (1310-73-2) Biodegradability: not applicable. No (test)data on mobility of the components available. Not applicable Not applicable Not applicable Biodegradability: not applicable. No (test)data on mobility of the substance available. Not applicable Not applicable
Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5) Persistence and degradability sodium hydroxide, conc=50%, aqueous sol Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) sodium chloride (7647-14-5) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (BOD) Chemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) BOD (% of ThOD) 2.3. Bioaccumulative potential	conc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established. Iution (1310-73-2) Biodegradability: not applicable. No (test)data on mobility of the components available. Not applicable Not applicable Not applicable Biodegradability: not applicable. No (test)data on mobility of the substance available. Not applicable Not applicable
Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5) Persistence and degradability sodium hydroxide, conc=50%, aqueous sol Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) sodium chloride (7647-14-5) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (BOD) Chemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential MASTER ENGINE DEGREASER 15 OZ.	conc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established. Iution (1310-73-2) Biodegradability: not applicable. No (test)data on mobility of the components available. Not applicable Not applicable Not applicable Biodegradability: not applicable. No (test)data on mobility of the components available. Not applicable
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Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5) Persistence and degradability sodium hydroxide, conc=50%, aqueous sol Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) sodium chloride (7647-14-5) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (BOD) Chemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential MASTER ENGINE DEGREASER 15 OZ. Bioaccumulative potential Petroleum gases, liquefied, sweetened (684 Bioaccumulative potential 2-butoxyethanol (111-76-2) Log Pow	sonc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established. Iution (1310-73-2) Biodegradability: not applicable. No (test)data on mobility of the components available. Not applicable Not applicable Not applicable Biodegradability: not applicable. No (test)data on mobility of the substance available. Not applicable Not established. 476-86-8) Not established. 0.81 (Experimental value; BASF test; 25 °C)
Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5) Persistence and degradability sodium hydroxide, conc=50%, aqueous sol Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) sodium chloride (7647-14-5) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential MASTER ENGINE DEGREASER 15 OZ. Bioaccumulative potential Petroleum gases, liquefied, sweetened (684 Bioaccumulative potential 2-butoxyethanol (111-76-2) Log Pow Bioaccumulative potential	sonc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established. lution (1310-73-2) Biodegradability: not applicable. No (test)data on mobility of the components available. Not applicable Not established.
Persistence and degradability ammonium hydroxide, aqueous solution, c Persistence and degradability WATER (7732-18-5) Persistence and degradability sodium hydroxide, conc=50%, aqueous sol Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) sodium chloride (7647-14-5) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (BOD) Chemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential MASTER ENGINE DEGREASER 15 OZ. Bioaccumulative potential Petroleum gases, liquefied, sweetened (684 Bioaccumulative potential 2-butoxyethanol (111-76-2) Log Pow	sonc=25% (1336-21-6) Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established. Iution (1310-73-2) Biodegradability: not applicable. No (test)data on mobility of the components available. Not applicable Not applicable Not applicable Biodegradability: not applicable. No (test)data on mobility of the substance available. Not applicable Not established. 476-86-8) Not established. 0.81 (Experimental value; BASF test; 25 °C)

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according to Federal Register / Vol. 77, No. 58 / Monday,	March 26, 2012 / Rules and Regulations
polyethylene glycol 200-600 (25322-68-3)	
Bioaccumulative potential	Bioaccumulation: not applicable.
NONYL NONOXYNOL-5 (9014-93-1)	
Bioaccumulative potential	Not established.
Bloaccumulative potential	NOT ESTADIISHED.
Nonlyphenol Ethoxylate (127087-87-0)	
Bioaccumulative potential	Not established.
ammonium hydroxide, aqueous solution, co	anc-25% (1336-21-6)
Bioaccumulative potential	Not bioaccumulative.
WATER (7732-18-5)	
Bioaccumulative potential	Not established.
sodium hydroxide, conc=50%, aqueous sol	ution (1310-73-2)
Log Pow	-3.88 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable.
· · ·	
sodium chloride (7647-14-5)	
Log Pow	-3.0 (Calculated)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
12.4. Mobility in soil	
2-butoxyethanol (111-76-2)	
Surface tension	0.027 N/m (25 °C)
12.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
13.1. Waste treatment methods Waste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of
13.1. Waste treatment methods Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional,
	contents/container to appropriate waste disposal facility, in accordance with local, regional,
Waste disposal recommendations Ecology - waste materials	contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information	contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.Avoid release to the environment.
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment.
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment.
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN P, Limited Quantity
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2 14.2. UN proper shipping name	contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. : Avoid release to the environment. DN 2, Limited Quantity 2, Limited Quantity 2, Limited Quantity
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity 2. Limited Quantity 3. Limited Quantity 4. Limited Quantity 5. Aerosols
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2 14.2. UN proper shipping name	contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. : Avoid release to the environment. DN 2, Limited Quantity 2, Limited Quantity 2, Limited Quantity
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2 14.2. UN proper shipping name DOT Proper Shipping Name Department of Transportation (DOT) Hazard	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity 2. Limited Quantity 3. Limited Quantity 4. Limited Quantity 5. Aerosols
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2 14.2. UN proper shipping name DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity 2. Limited Quantity 3. Limited Quantity 4. Limited Quantity 5. Limited Quantity 5. Limited Quantity 5. Limited Quantity 5. Limited Quantity 6. Limited Quantity 7. Limited Quantity 7. Limited Quantity 8. Limited Quantity 8. Limited Quantity 9.
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2 14.2. UN proper shipping name DOT Proper Shipping Name Department of Transportation (DOT) Hazard	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity 2. Limited Quantity 3. Limited Quantity 4. Limited Quantity 5. Aerosols non-flammable, (each not exceeding 1 L capacity)
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2 14.2. UN proper shipping name DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity 2. Limited Quantity 3. Limited Quantity 4. Limited Quantity 5. Limited Quantity 5. Limited Quantity 5. Limited Quantity 5. Limited Quantity 6. Limited Quantity 7. Limited Quantity 7. Limited Quantity 8. Limited Quantity 8. Limited Quantity 9.
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2 14.2. UN proper shipping name DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity 2. Limited Quantity 3. Limited Quantity 4. Limited Quantity 5. Limited Quantity 5. Limited Quantity 5. Limited Quantity 5. Limited Quantity 6. Limited Quantity 7. Limited Quantity 7. Limited Quantity 8. Limited Quantity 8. Limited Quantity 9.
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2 14.2. UN proper shipping name DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity 2. Limited Quantity 3. Limited Quantity 4. Limited Quantity 5. Limited Quantity 5. Limited Quantity 5. Limited Quantity 5. Limited Quantity 6. Limited Quantity 7. Limited Quantity 7. Limited Quantity 8. Limited Quantity 8. Limited Quantity 9.
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2 14.2. UN proper shipping name DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity 2. Limited Quantity 3. Limited Quantity 4. Limited Quantity 5. Limited Quantity 5. Limited Quantity 5. Limited Quantity 5. Limited Quantity 6. Limited Quantity 7. Limited Quantity 7. Limited Quantity 8. Limited Quantity 8. Limited Quantity 9.
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2 14.2. UN proper shipping name DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes Hazard labels (DOT)	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity 3. Limited Quantity 4. Limited Quantity 5. Limited Quantity 6. Limited Quantity 7. Limited Quantity 7. Limited Quantity 7. Limited Quantity 8. Limited Quantity 8. Limited Quantity 9.
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2 14.2. UN proper shipping name DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes Hazard labels (DOT) DOT Packaging Exceptions (49 CFR 173.xxx)	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity 3. Limited Quantity 4. Limited Quantity 5. Limited Quantity 6. Limited Quantity 7. Limited Quantity 7. Limited Quantity 8. Limited Quantity 8. Limited Quantity 9.
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2 14.2. UN proper shipping name DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes Hazard labels (DOT) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx)	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity 2. Limited Quantity 3. Limited Quantity 4. Limited Quantity 5. Aerosols non-flammable, (each not exceeding 1 L capacity) 2. 2 Class 2.2 - Non-flammable compressed gas 49 CFR 173.115 2.2 - Non-flammable gas 2.306 None
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2 14.2. UN proper shipping name DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes Hazard labels (DOT) DOT Packaging Exceptions (49 CFR 173.xxx)	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity 3. Limited Quantity 4. Limited Quantity 5. Limited Quantity 6. Limited Quantity 7. Limited Quantity 7. Limited Quantity 8. Limited Quantity 8. Limited Quantity 9.
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2 14.2. UN proper shipping name DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes Hazard labels (DOT) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx)	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity 2. Limited Quantity 3. Limited Quantity 4. Limited Quantity 5. Aerosols non-flammable, (each not exceeding 1 L capacity) 2. 2 Class 2.2 - Non-flammable compressed gas 49 CFR 173.115 2.2 - Non-flammable gas 2.306 None
Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A US DOT (ground): UN1950, Aerosols, 2.2 ICAO/IATA (air): UN1950, Aerosols, 2.2 IMO/IMDG (water): UN1950, Aerosols, 2.2 14.2. UN proper shipping name DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes Hazard labels (DOT) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)	 contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Avoid release to the environment. DN 2. Limited Quantity 2. Limited Quantity 2. Limited Quantity 3. Limited Quantity 4. Limited Quantity 5. Aerosols non-flammable, (each not exceeding 1 L capacity) 2. 2 Class 2.2 - Non-flammable compressed gas 49 CFR 173.115 2.2 - Non-flammable gas 2.306 None

Overland transport

No additional information available

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DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
OOT Vessel Stowage Other	: 48 - Stow "away from" sources of heat,87 - Stow "separated from" Class 1 (explosives) exception 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials
Air transport	
DOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	: 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg

15.1. US Federal regulations		
MASTER ENGINE DEGREASER 15 OZ.		
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard Sudden release of pressure hazard	
Petroleum gases, liquefied, sweetened (68476-86-8)		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard Sudden release of pressure hazard	
Nonlyphenol Ethoxylate (127087-87-0)		
Listed on United States SARA Section 313		
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard	
SARA Section 313 - Emission Reporting	5 % Glycol Ethers	
sodium hydroxide, conc=50%, aqueous solution (1310-73-2)		
Listed on the United States SARA Section 302		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	

15.2. International regulations

CANADA

MASTER ENGINE DEGREASER 15 OZ.		
WHMIS Classification	Class A - Compressed Gas	
sodium hydroxide, conc=50%, aqueous solution (1310-73-2)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class E - Corrosive Material	

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

Carc.Cat.1; R45 Muta.Cat.2; R46 F+; R12 Xi; R36/38 Full text of R-phrases: see section 16

15.2.2. National regulations

No additional information available

15.3. US State regulations

2-butoxyethanol (111-76-2)

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

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2-butoxyethanol (111-76-2)

U.S. - New Jersey - Right to Know Hazardous Substance List

CTION 16: Other information	
cation of changes : Revision - See :	• *
er information : None.	
text of H-phrases: see section 16:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) 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 Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Carc. 1A	Carcinogenicity Category 1A
Compressed gas	Gases under pressure Compressed gas
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Gas 1	Flammable gases Category 1
Flam. Lig. 1	Flammable liquids Category 1
Flam. Lig. 4	Flammable liquids Category 4
Muta. 1B	Germ cell mutagenicity Category 1B
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H220	Extremely flammable gas
H224	Extremely flammable liquid and vapor
H227	Combustible liquid
H280	Contains gas under pressure; may explode if heated
H302	Harmful if swallowed
H311	Toxic in contact with skin
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
H332	Harmful if inhaled
H335	May cause respiratory irritation
H340	May cause genetic defects
H350	May cause cancer
H400	Very toxic to aquatic life
H401	Toxic to aquatic life

NFPA fire hazard NFPA reactivity : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

: 1 - Must be preheated before ignition can occur.

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

: 2 Moderate Hazard - Temporary or minor injury may occur



HMIS III Rating

Health
Flammability
Physical
Personal Protection

SDS US (GHS HazCom 2012)

1 Slight Hazard1 Slight Hazard

: B

Safety Data Sheet

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

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product

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