## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 11/03/2014 :

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Mixture		
Trade name	MIGHTY BATTERY CLEANER & ACID DETECTOR 10 OZ.		
Product code	: MN112		
1.2. Relevant identified uses of the substa	ance or mixture and uses advised against		
Use of the substance/mixture	: Battery Terminal Cleaner		
1.3. Details of the supplier of the safety data	ata sheet		
Mighty Auto Parts 650 Engineering Drive Norcross, Georgia 30092 T 770-448-3900			
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 mix	xture		
Classification (GHS-US)			
Compressed gas H280			
Muta. 1B H340 Carc. 1A H350			
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS04 GHS08		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H280 - Contains gas under pressure; may explode if heated H340 - May cause genetic defects H350 - May cause cancer		
Precautionary statements (GHS-US)	<ul> <li>P201 - Obtain special instructions</li> <li>P202 - Do not handle until all safety precautions have been read and understood</li> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection</li> <li>P308+P313 - If exposed or concerned: Get medical advice/attention</li> <li>P405 - Store locked up</li> <li>P410+P403 - Protect from sunlight. Store in a well-ventilated place</li> <li>P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.</li> </ul>		
2.3. Other hazards			
Other hazards not contributing to the classification	: Contains gas under pressure; may explode if heated.		
2.4. Unknown acute toxicity (GHS-US)			
No data available			
SECTION 3: Composition/information	on ingredients		
3.1. Substance			
Not applicable			
3.2. Mixture			

Name	Product identifier	%	Classification (GHS-US)
Water	(CAS No) 7732-18-5	85 - 95	Not classified

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Name	Product identifier	%	Classification (GHS-US)
Petroleum Gases, Liquefied, Sweetened	(CAS No) 68476-86-8	5 - 10	Flam. Gas 1, H220 Flam. Liq. 1, H224 Muta. 1B, H340 Carc. 1A, H350
Sodium Bicarbonate	(CAS No) 144-55-8	1 - 5	Not classified
Complex Carboxylic Acid Derivative	(CAS No) Proprietary	0.95 - 1	Not classified
2-Butoxyethanol	(CAS No) 111-76-2	< 1	Flam. Liq. 4, H227 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
Polyethylene Glycol 200-600	(CAS No) 25322-68-3	<= 0.0279	Not classified
Triethanolamine	(CAS No) 102-71-6	< 0.02	Not classified
2-Aminoethanol	(CAS No) 141-43-5	< 0.02	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314
Nonyl Nonoxynol-5	(CAS No) 9014-93-1	<= 0.0186	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	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
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/injuries	May cause genetic defects.
Symptoms/injuries after inhalation	May cause cancer by inhalation.
Symptoms/injuries after skin contact	May cause slight irritation . May cause moderate irritation. Itching. Red skin. Skin rash/inflammation.
Symptoms/injuries after eye contact	May cause slight eye irritation . May cause severe irritation. Inflammation/damage of the eye tissue. Irritation of the eye tissue. Redness of the eye tissue.
Symptoms/injuries after ingestion	May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways.
4.3. Indication of any immediate medical a	ttention and special treatment needed

No additional	information	availahle
NU auullullal	iniumation	avaliable

SECT	ION 5: Firefighting measures		
5.1.	Extinguishing media		
Suitable	e extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.	
Unsuita	ble extinguishing media	: Do not use a heavy water stream.	
5.2.	Special hazards arising from the su	bstance or mixture	
No add	itional information available		
5.3.	Advice for firefighters		
Firefigh	ting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting an chemical fire. Prevent fire-fighting water from entering environment.	у
Protecti	ion during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection	n.
Other in	nformation	: NFPA Aerosol Level 1.	
SECT	ION 6: Accidental release mea	sures	
6.1.	Personal precautions, protective ec	uipment and emergency procedures	
Genera	l measures	: Remove ignition sources.	
6.1.1.	For non-emergency personnel		
Protecti	ive equipment	: Gloves. Safety glasses.	
Emerge	ency procedures	: Evacuate unnecessary personnel.	
6.1.2.	For emergency responders		
Protecti	ive equipment	: Equip cleanup crew with proper protection.	
Emerge	ency procedures	: Ventilate area.	
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6.2.	Environmental precautions				
Prevent	entry to sewers and public waters. Notify	aı	uthorities if liquid enters sewers or public waters.		
6.3.	Methods and material for containment and cleaning up				
For cont	ainment	:	Dam up the liquid spill. Plug the leak, cut off the supply. Contain released substance, pump into suitable containers.		
Methods	s for cleaning up	:	Store away from other materials.		
6.4.	Reference to other sections				
See Hea	ading 8. Exposure controls and personal p	orc	tection.		
SECT	ON 7: Handling and storage				
7.1.	Precautions for safe handling				
Precauti	ons 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 o 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.		
Hygiene	measures	:	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling. Wash contaminated clothing before reuse.		
7.2.	Conditions for safe storage, includin	g	any incompatibilities		
Technic	al 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.		
Incompa	atible products	:	Strong bases. Strong acids.		
Incompatible materials : Sources of ignition. Direct sunlight.		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

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/m <sup>3</sup> )	240 mg/m <sup>3</sup>	
USA OSHA OSHA PEL (TWA) (ppm)		50 ppm	
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	

Triethanolamine (102-71-6)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m³

2-Aminoethanol (141-43-5)			
USA ACGIH	ACGIH TWA (ppm)	3 ppm	
USA ACGIH	ACGIH STEL (ppm)	3 ppm	

## 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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: Wear protective gloves.

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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 ch	e	mical properties
Physical state		Gas
		Gas
Appearance	•	
Color	:	Yellow to Orange.
Odor	:	Mild.
Odor threshold	:	No data available
рН	:	7.5 - 9.5
Relative evaporation rate (butyl acetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
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	:	1.02
Solubility	:	No data available
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

: 7.9 %

SECTIO	ON 10: Stability and reactivity		
10.1.	Reactivity		
No additi	onal information available		
10.2.	Chemical stability		
Not estat	blished.		
10.3.	Possibility of hazardous reactions		
Not estat	blished.		
10.4.	Conditions to avoid		
Direct su	nlight. Extremely high or low temperatures.		
10.5.	Incompatible materials		
Strong ad	Strong acids. Strong bases.		
10.6.	Hazardous decomposition products		
Toxic fun	ne Carbon monoxide. Carbon dioxide.		
SECTION	ON 11: Toxicological information	1	
11.1.	Information on toxicological effects		
Acute tox	xicity :	Not classified	

Sodium Bicarbonate (144-55-8)		
LD50 oral rat	> 4000 mg/kg (Rat; FIFRA (40 CFR); Experimental value)	

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2-Butoxyethanol (111-76-2)		
550 oral rat       530 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 1746 mg/kg bodyw         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)	
Triethanolamine (102-71-6)		
LD50 oral rat	> 5000 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 6400 mg/kg bodyweight; Rat)	
LD50 dermal rat	> 5000 mg/kg (Rat)	
LD50 dermal rabbit       > 10000 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; >20 bodyweight; Rabbit)		
2-Aminoethanol (141-43-5)		
LD50 oral rat	1720 mg/kg (Rat)	
LD50 dermal rabbit	1018 mg/kg (Rabbit)	
Skin corrosion/irritation :	Not classified	
	рН: 7.5 - 9.5	
Serious eye damage/irritation	Not classified	
	рН: 7.5 - 9.5	
Respiratory or skin sensitization	Not classified	
Germ cell mutagenicity :	May cause genetic defects.	
Carcinogenicity	May cause cancer.	
2-Butoxyethanol (111-76-2)		
IARC group	3	
Triethanolamine (102-71-6)		
IARC group	3	
Reproductive toxicity	Not classified	
Specific target organ toxicity (single exposure)	Not classified	
Specific target organ toxicity (repeated exposure)	Not classified	
Aspiration hazard	Not classified	
Potential Adverse human health effects and symptoms	Based on available data, the classification criteria are not met.	
Symptoms/injuries after inhalation	May cause cancer by inhalation.	
Symptoms/injuries after skin contact	May cause slight irritation . May cause moderate irritation. Itching. Red skin. Skin rash/inflammation.	
Symptoms/injuries after eye contact	May cause slight eye irritation . May cause severe irritation. Inflammation/damage of the eye tissue. Irritation of the eye tissue. Redness of the eye tissue.	
Symptoms/injuries after ingestion	May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways.	

## **SECTION 12: Ecological information**

12.1. Toxicity

Sodium Bicarbonate (144-55-8)		
LC50 fish 1	7550 mg/l (96 h; Gambusia affinis)	
EC50 Daphnia 1	2350 mg/l (48 h; Daphnia magna)	
LC50 fish 2	8600 mg/l (96 h; Lepomis macrochirus)	
Threshold limit algae 1	650 mg/l (120 h; Algae)	
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)	

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2-Butoxyethanol (111-76-2)		
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)		
L C50 fish 1	> 1000 ma/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	aquatic organisms 1 <= 100 mg/l (96 h: Plankton)	
Threshold limit other aquatic organisms 2	hold limit other aquatic organisms 2 > 100 mg/l (90 n; Plankton)	
Threshold limit algae 2	500 mg/l (720 h: Algae: No effect)	
I rietnanolamine (102-71-6)	. 40000 m n// (40 h)   ausiaus idus)	
	> 10000 mg/l (48 h; Leuciscus idus)	
	2038 mg/l (24 n; Daphnia magna; Locomotor effect)	
LC50 fish 2	450 - 1000 mg/l (96 h; Lepomis macrochirus)	
EC50 Daphnia 2	609.88 mg/i (48 h; Ceriodaphnia dubia)	
	100 - 1000,Pisces	
I LIVI OTNER AQUATIC ORGANISMS 1	100 - 1000	
I nresnoid limit algae 1	1.8 - / 15,168 h; Scenedesmus quadricauda	
I hreshold limit algae 2	19 - 47,168 h; Microcystis aeruginosa	
2-Aminoethanol (141-43-5)		
LC50 fish 1	150 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 1	140 mg/l (24 h; Daphnia magna)	
LC50 fish 2	329.16 mg/l (96 h; Lepomis macrochirus)	
TLM fish 1	100 - 1000,96 h; Pisces	
TLM other aquatic organisms 1	100 - 1000,96 h	
Threshold limit algae 1	0.97 mg/l (192 h; Scenedesmus quadricauda; Inhibitory)	
Threshold limit algae 2	35 mg/l (72 h; Algae)	
12.2. Persistence and degradability		
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12.2. Persistence and degradability MIGHTY BATTERY CLEANER & ACID DETEC	TOR 10 OZ.	
12.2. Persistence and degradability MIGHTY BATTERY CLEANER & ACID DETEC Persistence and degradability	TOR 10 OZ. Not established.	
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12.2. Persistence and degradability MIGHTY BATTERY CLEANER & ACID DETEC Persistence and degradability Sodium Bicarbonate (144-55-8) Persistence and degradability	TOR 10 OZ. Not established.	
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Sodium Bicarbonate (144-55-8)           Persistence and degradability	TOR 10 OZ.         Not established.         Biodegradability: not applicable. No (test)data on mobility of the substance available.         Not applicable (inorganic)	
12.2.       Persistence and degradability         MIGHTY BATTERY CLEANER & ACID DETEC         Persistence and degradability         Sodium Bicarbonate (144-55-8)         Persistence and degradability         ThOD         2-Butoxyethanol (111-76-2)	TOR 10 OZ. Not established. Biodegradability: not applicable. No (test)data on mobility of the substance available. Not applicable (inorganic)	
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12.2.       Persistence and degradability         MIGHTY BATTERY CLEANER & ACID DETEC         Persistence and degradability         Sodium Bicarbonate (144-55-8)         Persistence and degradability         ThOD         2-Butoxyethanol (111-76-2)         Persistence and degradability         Biochemical oxygen demand (BOD)         Chemical oxygen demand (COD)	TOR 10 OZ.         Not established.         Biodegradability: not applicable. No (test)data on mobility of the substance available.         Not applicable (inorganic)         Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.         0.71 g O       2 /g substance         2.20 g O       2 /g substance	
12.2.       Persistence and degradability         MIGHTY BATTERY CLEANER & ACID DETEC         Persistence and degradability         Sodium Bicarbonate (144-55-8)         Persistence and degradability         ThOD         2-Butoxyethanol (111-76-2)         Persistence and degradability         Biochemical oxygen demand (BOD)         Chemical oxygen demand (COD)         ThOD	TOR 10 OZ.         Not established.         Biodegradability: not applicable. No (test)data on mobility of the substance available.         Not applicable (inorganic)         Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.         0.71 g O       2 /g substance         2.20 g O       2 /g substance         2.305 g O       2 /g substance	
12.2.       Persistence and degradability         MIGHTY BATTERY CLEANER & ACID DETEC         Persistence and degradability         Sodium Bicarbonate (144-55-8)         Persistence and degradability         ThOD         2-Butoxyethanol (111-76-2)         Persistence and degradability         Biochemical oxygen demand (BOD)         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD)	TOR 10 OZ.         Not established.         Biodegradability: not applicable. No (test)data on mobility of the substance available.         Not applicable (inorganic)         Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.         0.71 g O       2 /g substance         2.20 g O       2 /g substance         2.305 g O       2 /g substance         0.31 % ThOD	
12.2.       Persistence and degradability         MIGHTY BATTERY CLEANER & ACID DETEC         Persistence and degradability         Sodium Bicarbonate (144-55-8)         Persistence and degradability         ThOD         2-Butoxyethanol (111-76-2)         Persistence and degradability         Biochemical oxygen demand (BOD)         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD)         Polyethylene Glycol 200-600 (25322-68-3)	TOR 10 OZ.         Not established.         Biodegradability: not applicable. No (test)data on mobility of the substance available.         Not applicable (inorganic)         Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.         0.71 g O       2 /g substance         2.20 g O       2 /g substance         2.305 g O       2 /g substance         0.31 % ThOD	
12.2.       Persistence and degradability         MIGHTY BATTERY CLEANER & ACID DETEC         Persistence and degradability         Sodium Bicarbonate (144-55-8)         Persistence and degradability         ThOD         2-Butoxyethanol (111-76-2)         Persistence and degradability         Biochemical oxygen demand (BOD)         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD)         Persistence and degradability	TOR 10 OZ.         Not established.         Biodegradability: not applicable. No (test)data on mobility of the substance available.         Not applicable (inorganic)         Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.         0.71 g O       2 /g substance         2.20 g O       2 /g substance         2.305 g O       2 /g substance         0.31 % ThOD	
12.2.       Persistence and degradability         MIGHTY BATTERY CLEANER & ACID DETEC         Persistence and degradability         Sodium Bicarbonate (144-55-8)         Persistence and degradability         ThOD         2-Butoxyethanol (111-76-2)         Persistence and degradability         Biochemical oxygen demand (BOD)         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD)         Persistence and degradability         Nonvl Nonoxynol-5 (9014-93-1)	TOR 10 OZ.         Not established.         Biodegradability: not applicable. No (test)data on mobility of the substance available.         Not applicable (inorganic)         Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.         0.71 g O       2 /g substance         2.20 g O       2 /g substance         2.305 g O       2 /g substance         0.31 % ThOD	
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<ul> <li>12.2. Persistence and degradability</li> <li>MIGHTY BATTERY CLEANER &amp; ACID DETEC Persistence and degradability</li> <li>Sodium Bicarbonate (144-55-8)</li> <li>Persistence and degradability</li> <li>ThOD</li> <li>2-Butoxyethanol (111-76-2)</li> <li>Persistence and degradability</li> <li>Biochemical oxygen demand (BOD)</li> <li>Chemical oxygen demand (COD)</li> <li>ThOD</li> <li>BOD (% of ThOD)</li> <li>Polyethylene Glycol 200-600 (25322-68-3)</li> <li>Persistence and degradability</li> <li>Nonyl Nonoxynol-5 (9014-93-1)</li> <li>Persistence and degradability</li> <li>Water (7732-18-5)</li> <li>Persistence and degradability</li> <li>Complex Carboxylic Acid Derivative (Propried)</li> </ul>	TOR 10 OZ.         Not established.         Biodegradability: not applicable. No (test)data on mobility of the substance available.         Not applicable (inorganic)         Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.         0.71 g O       2 /g substance         2.20 g O       2 /g substance         2.305 g O       2 /g substance         0.31 % ThOD       Biodegradability in water: no data available.         Not established.       Not established.         76-86-8)       Not established.	
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12.2. Persistence and degradability MIGHTY BATTERY CLEANER & ACID DETEC Persistence and degradability Sodium Bicarbonate (144-55-8) Persistence and degradability ThOD 2-Butoxyethanol (111-76-2) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) Polyethylene Glycol 200-600 (25322-68-3) Persistence and degradability Nonyl Nonoxynol-5 (9014-93-1) Persistence and degradability Water (7732-18-5) Persistence and degradability Persistence and degradability Persistence and degradability Complex Carboxylic Acid Derivative (Proprie Persistence and degradability Triethanolamine (102-71-6)	TOR 10 OZ.         Not established.         Biodegradability: not applicable. No (test)data on mobility of the substance available.         Not applicable (inorganic)         Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.         0.71 g O       2 /g substance         2.20 g O       2 /g substance         2.305 g O       2 /g substance         0.31 % ThOD         Biodegradability in water: no data available.         Not established.         Not established.         Yot established.         Not established.         Not established.         Not established.	
12.2. Persistence and degradability MIGHTY BATTERY CLEANER & ACID DETEC Persistence and degradability Sodium Bicarbonate (144-55-8) Persistence and degradability ThOD 2-Butoxyethanol (111-76-2) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) Polyethylene Glycol 200-600 (25322-68-3) Persistence and degradability Nonyl Nonoxynol-5 (9014-93-1) Persistence and degradability Water (7732-18-5) Persistence and degradability Petroleum Gases, Liquefied, Sweetened (684 Persistence and degradability Complex Carboxylic Acid Derivative (Proprie Persistence and degradability Triethanolamine (102-71-6) Persistence and degradability	TOR 10 OZ.         Not established.         Biodegradability: not applicable. No (test)data on mobility of the substance available.         Not applicable (inorganic)         Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.         0.71 g O       2 /g substance         2.20 g O       2 /g substance         2.305 g O       2 /g substance         0.31 % ThOD         Biodegradability in water: no data available.         Not established. <b>F6-86-8)</b> Not established.         Tot established.         Tot established.         Readily biodegradable in water. Highly mobile in soil. Photolysis in the air.	
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<ul> <li>12.2. Persistence and degradability</li> <li>MIGHTY BATTERY CLEANER &amp; ACID DETEC Persistence and degradability</li> <li>Sodium Bicarbonate (144-55-8)</li> <li>Persistence and degradability</li> <li>ThOD</li> <li>2-Butoxyethanol (111-76-2)</li> <li>Persistence and degradability</li> <li>Biochemical oxygen demand (BOD)</li> <li>Chemical oxygen demand (COD)</li> <li>ThOD</li> <li>BOD (% of ThOD)</li> <li>Polyethylene Glycol 200-600 (25322-68-3)</li> <li>Persistence and degradability</li> <li>Nonyl Nonoxynol-5 (9014-93-1)</li> <li>Persistence and degradability</li> <li>Water (7732-18-5)</li> <li>Persistence and degradability</li> <li>Persistence and degradability</li> <li>Complex Carboxylic Acid Derivative (Proprise Persistence and degradability</li> <li>Triethanolamine (102-71-6)</li> <li>Persistence and degradability</li> <li>Biochemical oxygen demand (BOD)</li> <li>Chemical oxygen demand (BOD)</li> </ul>	TOR 10 OZ.         Not established.         Biodegradability: not applicable. No (test)data on mobility of the substance available.         Not applicable (inorganic)         Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.         0.71 g O       2 /g substance         2.20 g O       2 /g substance         2.305 g O       2 /g substance         0.31 % ThOD         Biodegradability in water: no data available.         Not established. <b>Fease-81</b> Not established. <b>Readily biodegradable in water. Highly mobile in soil. Photolysis in the air. O Readily biodegradable in water. Highly mobile in soil. Photolysis in the air. Readily biodegradable in water. Highly mobile in soil. Photolysis in the air. O Readily biodegradable in water. Highly mobile in soil. Photolysis in the air. O Readily biodegradable in water. Highly mobile in soil. Photolysis in the air. Readily biodegradable in water. Highly mobile in soil. Photolysis in the air.</b>	

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Triethanolamine (102-71-6)		
ThOD	2.04 g O 2 /g substance	
BOD (% of ThOD)	0.02 % ThOD	
2-Aminoethanol (141-43-5)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.	
Biochemical oxygen demand (BOD)	0.80 g O 2 /g substance	
Chemical oxygen demand (COD)	1.34 g O 2 /g substance	
ThOD	2.49 g O 2 /g substance	
BOD (% of ThOD)	0.32 % ThOD	
12.3 Bioaccumulative potential		
Bioaccumulative potential	Not established	
Sodium Bicarbonate (144-55-8)		
Log Pow	-4.01 (Estimated value)	
	Low potential for bloaccumulation (Log Kow < 4).	
2-Butoxyethanol (111-76-2)		
Log Pow	0.81 (Experimental value; BASF test; 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Polyethylene Glycol 200-600 (25322-68-3)		
Log Pow	-1.2	
Bioaccumulative potential	Bioaccumulation: not applicable.	
Bioaccumulative potential	Not established.	
Water (7732-18-5)	Net established	
Bloaccumulative potential	Not established.	
Petroleum Gases, Liquefied, Sweetened (684)	76-86-8)	
Bioaccumulative potential	Not established.	
Complex Carboxylic Acid Derivative (Proprie	itary)	
Bioaccumulative potential	Not established.	
Triethanolamine (102-71-6)		
BCE fish 1	< <0.4-<3.9.42 days: Cyprinus carpio	
	-2.3 - 1.34 (Weight of evidence approach: -1: QSAR)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
2-Aminoethanol (141-43-5)	1.01	
Bioaccumulative potential	-1.91 Ricaccumulation: not applicable	
12.4. Mobility in soil		
2-Butoxyethanol (111-76-2)		
Surface tension	0.027 N/m (25 °C)	
2-Aminoethanol (141-43-5)		
Surface tension	0.050 N/m	
12.5. Other adverse effects		
Other information	: Avoid release to the environment.	
SECTION 13: Disposal considerations	S	
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, national, international regulations.	
Ecology - waste materials	: Avoid release to the environment.	

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#### SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN

US DOT (ground):	UN1950, Aerosols, non-flammable, 2.2, Limited Quantity	
ICAO/IATA (air):	UN1950, Aerosols, 2.2 , Limited Quantity	
IMO/IMDG (water):	UN1950, Aerosols, 2.2 , Limited Quantity	

14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Aerosols, non-flammable
	non-flammable, (each not exceeding 1 L capacity)
Department of Transportation (DOT) Hazard Classes	: 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115
Hazard labels (DOT)	: 2.2 - Non-flammable gas
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306
DOT Packaging Non Bulk (49 CFR 173.xxx)	: None
DOT Packaging Bulk (49 CFR 173.xxx)	: None
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	
No additional information available	
Transport by sea	
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
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

SECTION 15: Regulatory information		
15.1. US Federal regulations		
MIGHTY BATTERY CLEANER & ACID DETECTOR 10 OZ.		
SARA Section 311/312 Hazard Classes	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	
2-Aminoethanol (141-43-5)		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
15.2. International regulations		

CANADA

MIGHTY BATTERY CLEANER & ACID DETECTOR 10 OZ.		
WHMIS Classification	Class A - Compressed Gas	

#### **EU-Regulations**

No additional information available

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

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

Carc.Cat.1; R45

Muta.Cat.2; R46 F+; R12

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

### **SECTION 16: Other information**

# Other information : None. Full text of H-phrases: see section 16: Acute Tox. 3 (Dermal) 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

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Carc. 1A	Carcinogenicity Category 1A
Compressed gas	Gases under pressure Compressed gas
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Gas 1	Flammable gases Category 1
Flam. Liq. 1	Flammable liquids Category 1
Flam. Liq. 4	Flammable liquids Category 4
Muta. 1B	Germ cell mutagenicity Category 1B
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
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
H319	Causes serious eye irritation
H332	Harmful if inhaled
H340	May cause genetic defects
H350	May cause cancer

#### NFPA health hazard

NFPA fire hazard

NFPA reactivity

: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

: 1 - Must be preheated before ignition can occur.

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



: 1 Slight Hazard - Irritation or minor reversible injury possible
: 1 Slight Hazard
: 1 Slight Hazard
: B

SDS US (GHS HazCom 2012) - TCC

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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

Disclaimer: The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.