Safety Data Sheet

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SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Mixture : MIGHTY NON-CHLORINATED BRAKE CLEANER 5 GALLON Trade name Product code : BK109 Relevant identified uses of the substance or mixture and uses advised against 1.2. Use of the substance/mixture : Brake Parts Cleaner Details of the supplier of the safety data sheet 1.3. 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 mixture**

Classification (GHS-US)

Flam. Liq. 2	H225
Acute Tox. 3 (Oral)	H301
Acute Tox. 3 (Dermal)	H311
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Repr. 2	H361
STOT SE 1	H370
STOT SE 3	H336
STOT RE 2	H373
Asp. Tox. 1	H304

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)

	GHS	2 GHS06	GHS07	GHS08	
Signal word (GHS-US)	: Danger				
Hazard statements (GHS-US)	H301+H3 H304 - M H315 - C H319 - C H332 - H H336 - M H361 - S H370 - C	ghly flammable liqui 11 - Toxic if swallow ay be fatal if swallow auses skin irritation auses serious eye irr armful if inhaled ay cause drowsiness uspected of damagin auses damage to org ay cause damage to	ved or in contact we red and enters ain itation s or dizziness g fertility or the un gans	vays	posure
Precautionary statements (GHS-US)	P202 - D P210 - K P233 - K P240 - G P241 - U P242 - U P243 - T P260 - D P261 - A P264 - W	eep away from heat, eep container tightly ound/bond containe	safety precautions sparks,open flame closed r and receiving eq ectrical, ventilating tools easures against st mes,gas,mist,vapo urne,gas,mist,vapo noroughly after ha	g, lighting equipment atic discharge or spray or spray ndling	

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	P271 - Use only outdoors or in a well-ventilated area
	 P280 - Wear protective gloves,protective clothing,eye protection,face protection P301+P310 - If swallowed: Immediately call a poison control center, doctor,physician, P302+P352 - If on skin: Wash with plenty of soap and water P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P307+P311 - If exposed: Call a poison center/doctor P308+P313 - If exposed or concerned: Get medical advice/attention P312 - Call a POISON CONTROL CENTER, doctor, if you feel unwell.
	 P314 - Get medical advice/attention if you feel unwell P321 - Specific treatment: See section 4.1 on SDS P330 - Rinse mouth P331 - Do NOT induce vomiting P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P361 - Take off immediately all contaminated clothing P362 - Take off contaminated clothing and wash before reuse P363 - Wash contaminated clothing before reuse P370+P378 - In case of fire: See Section 5.1 Extinguishing Media P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.
2.3. Other hazards	
Other hazards not contributing to the classification	: None under normal conditions.
2.4. Unknown acute toxicity (GHS-US)	
NI 17 111	

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Toluene	(CAS No) 108-88-3	30 - 50	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
Methanol	(CAS No) 67-56-1	30 - 50	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 STOT SE 1, H370
Acetone	(CAS No) 67-64-1	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

SEC	ION 4: First aid measures		
4.1.	Description of first aid measures		
First-ai	d measures general	:	Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medica advice/attention. Call a POISON CENTER or doctor/physician.
First-ai	d measures after inhalation	:	Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
First-ai	d measures after skin contact	:	Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-ai	d measures after eye contact	:	Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Immediately call a POISON CENTER or doctor/physician. Obtain medical attention if pain, blinking or redness persist.
First-ai	d measures after ingestion	:	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2.	Most important symptoms and effect	cts	, both acute and delayed
Sympto	oms/injuries	:	May damage fertility or the unborn child. Suspected of damaging fertility or the unborn child. Causes damage to organs.
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Symptoms/injuries after inhalation	 Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	 Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Fatal if swallowed. Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard. May be fatal if swallowed and enters airways.

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

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 su	ubstance or mixture
Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air 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.

SECTION 6: Accidental release meas	
6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.
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. Avoid breathing dust,fume,gas,mist,vapor spray.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify	v authorities if liquid enters sewers or public waters.
6.3. Methods and material for containme	nt and cleaning up
For containment	: Dam up the liquid spill. Contain released substance, pump into suitable containers. Plug the leak cut off the supply.
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 personal	protection.

SECTION 7: Handling and storage	je
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
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 or vapor. No naked lights. No smoking. Use only non-sparking tools. Use only outdoors or in a well ventilated area. Avoid breathing dust,fume,gas,mist,vapor spray. Obtain special instructions . Do not handle until all safety precautions have been read and understood. Do not breathe dust,fumes,gas,mist,vapor spray.
Hygiene measures	Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting equipment.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep in fireproof place. Keep container tightly closed.
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Incompatible products

: Strong bases. Strong acids.

Incompatible materials

- : Sources of ignition. Direct sunlight. Heat sources.
- 7.3. Specific end use(s)

Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Toluene (108-88-3)		
USA ACGIH	ACGIH TWA (mg/m³)	75 mg/m³
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm

Benzene (71-43-2)		
USA ACGIH	ACGIH TWA (ppm)	1 ppm
USA ACGIH	ACGIH STEL (ppm)	5 ppm
USA ACGIH	ACGIH Ceiling (ppm)	25 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm

Methanol (67-56-1)		
USA ACGIH	ACGIH TWA (mg/m³)	262 mg/m³
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (mg/m³)	328 mg/m ³
USA ACGIH	ACGIH STEL (ppm)	250 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm

Acetone (67-64-1) USA ACGIH ACGIH TWA (mg/m³) 1188 mg/m³ USA ACGIH ACGIH TWA (ppm) 500 ppm USA ACGIH ACGIH STEL (mg/m³) 1782 mg/m³ USA ACGIH ACGIH STEL (ppm) 750 ppm USA OSHA OSHA PEL (TWA) (mg/m³) 2400 mg/m³ USA OSHA OSHA PEL (TWA) (ppm) 1000 ppm

8.2. Exposure controls

Appropriate engineering controls Personal protective equipment

- : Local exhaust venilation, vent hoods . Ensure good ventilation of the work station.
- : Gloves. Safety glasses. Avoid all unnecessary exposure.



Hand protection: Wear protective gloves.Eye protection: Chemical goggles or safety glasses.Skin and body protection: Wear suitable protective clothing.Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection equipment is
recommended. Wear respiratory protection.Other information: Do not eat, drink or smoke during use.

d chemical properties	
physical and chemical properties	
: Liquid	
: Liquid.	
: 58.08 g/mol	
	: Liquid.

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Color	: Colourless to light yellow.		
Odor	: Solvent-like odour.		
Odor threshold	: 306 - 653 ppm 737 - 1574 mg/m³		
рН	: 7		
Relative evaporation rate (butyl acetate=1)	: 6		
Relative evaporation rate (ether=1)	: 2		
Melting point	: -95 °C (Lowest Component)		
Freezing point	: No data available		
Boiling point	: 56 °C (Lowest Component)		
Flash point	: -18 °C (Lowest Component)		
Critical temperature	: 235 °C (Lowest Component)		
Auto-ignition temperature	: 465 °C (Lowest Component)		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapor pressure	: No data available		
Critical pressure	: 47010 hPa		
Relative vapor density at 20 °C	: 2.0		
Relative density	: 0.82		
Relative density of saturated gas/air mixture	: 1.2		
Specific gravity / density	: 818 kg/m³		
Solubility	: Poorly soluble in water. Water: Poor Ethanol: Complete Ether: Complete		
Log Pow	: -0.24 (Test data)		
Log Kow	: No data available		
Viscosity, kinematic	: 0.417 mm²/s		
Viscosity, dynamic	: 0.00033 Pa.s		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
Explosive limits	: 2 - 12.8 vol % 60 - 310 g/m ³		
9.2. Other information			
VOC content	: 74 %		
SECTION 10: Stability and reactivity			
10.1. Reactivity			
No additional information available	No additional information available		
10.2. Chemical stability	10.2. Chemical stability		
ononnour otasinty	ammable/explosive vapor-air mixture		

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3.	Possibility of hazardous reactions	
Not esta	blished.	

 10.4.
 Conditions to avoid

 Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information 11.1. Information on toxicological effects

Acute toxicity

: Toxic if swallowed. Toxic in contact with skin. Harmful if inhaled.

Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Literature study; 5580 mg/kg bodyweight; Rat; Experimental value)

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Toluene (108-88-3)	
LD50 dermal rabbit	> 5000 mg/kg body weight LD50 quoted as 14.1 mL/kg (12267 mg/kg using density of 0.87)
LC50 inhalation rat (mg/l)	> 28.1 mg/l/4h (Rat; Air, Literature study)
Benzene (71-43-2)	
LD50 oral rat	> 930 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; > 2000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	> 8240 mg/kg (Rabbit; Experimental value; 21 CFR 191.10; > 9.4; Rabbit)
LC50 inhalation rat (mg/l)	43.767 mg/l/4h (Rat; Experimental value)
LC50 inhalation rat (ppm)	13700 ppm/4h (Rat; Experimental value)
Methanol (67-56-1)	
LD50 oral rat	>= 2528 mg/kg body weight application as 50% aqueous solution
LD50 dermal rabbit	17100 mg/kg corresponding to 20 ml/kg bw according to the authors
LC50 inhalation rat (mg/l)	128.2 mg/l/4h Air
Acetone (67-64-1)	
LD50 oral rat	5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	20000 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l)	71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value)
LC50 inhalation rat (ppm)	30000 ppm/4h (Rat; Experimental value)
Skin corrosion/irritation	: Causes skin irritation.
	pH: 7
Serious eye damage/irritation	: Causes serious eye irritation.
	pH: 7
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Toluene (108-88-3)	
IARC group	3
Benzene (71-43-2)	
IARC group	1
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure)	: Causes damage to organs. May cause drowsiness or dizziness.
Specific target organ toxicity (repeated	: May cause damage to organs through prolonged or repeated exposure.

•	0	0	0	•	•

Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential Adverse human health effects and symptoms	: Fatal if swallowed. Based on available data, the classification criteria are not met. Harmful if inhaled. Toxic if swallowed. Toxic in contact with skin.
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Fatal if swallowed. Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard. May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

exposure)

Toluene (108-88-3)		
LC50 fish 1	24 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 1	84 mg/l (24 h; Daphnia magna; Locomotor effect)	
LC50 fish 2	13 mg/l (96 h; Lepomis macrochirus)	
EC50 Daphnia 2	11.5 - 19.6 mg/l (48 h; Daphnia magna)	
Threshold limit algae 1	> 400 mg/l (168 h; Scenedesmus quadricauda; Toxicity test)	
Threshold limit algae 2	105 mg/l (192 h; Microcystis aeruginosa)	
Benzene (71-43-2)		
LC50 fish 1	5.3 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 1	18 mg/l (24 h; Daphnia magna)	
LC50 fish 2	15.1 mg/l (96 h; Pimephales promelas)	
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Benzene (71-43-2)			
Benzene (71-43-2) EC50 Daphnia 2	10 mg// (48 h: Daphaia magna)		
•	10 mg/l (48 h; Daphnia magna) 22.5 mg/l (96 h; Lepomis macrochirus; Soft water)		
TLM fish 1			
TLM fish 2	32 mg/l (96 h; Pimephales promelas; Hard water)		
Threshold limit algae 1	100 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)		
Threshold limit algae 2	50 mg/l (24 h; Phaeodactylum; Photosynthesis)		
Acetone (67-64-1)			
TLM fish 1	13000 ppm (96 h; Gambusia affinis; Turbulent water)		
TLM fish 2	> 1000 ppm (96 h; Pisces)		
Threshold limit other aquatic organisms 1	3000 mg/l (Plankton)		
Threshold limit other aquatic organisms 2	28 mg/l (Protozoa)		
Threshold limit algae 1	7500 mg/l (Scenedesmus quadricauda; pH = 7)		
Threshold limit algae 2	3400 mg/l (48 h; Chlorella sp.)		
Methanol (67 E6 4)			
Methanol (67-56-1)			
LC50 fish 1	15400 mg/l (96 h; Lepomis macrochirus; Lethal)		
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna; Lethal)		
LC50 fish 2	10800 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)		
EC50 Daphnia 2	24500 mg/l (48 h; Daphnia magna; Locomotor effect)		
Threshold limit other aquatic organisms 1	6600 mg/l (16 h; Pseudomonas putida)		
Threshold limit algae 1	530 mg/l (192 h; Microcystis aeruginosa)		
Threshold limit algae 2	8000 mg/l (168 h; Scenedesmus quadricauda)		
Acetone (67-64-1)			
LC50 fish 1	6210 mg/l (96 h; Pimephales promelas; Nominal concentration)		
EC50 Daphnia 1	8800 mg/l (48 h; Daphnia pulex)		
LC50 fish 2	5540 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)		
TLM fish 1	13000 ppm (96 h; Gambusia affinis; Turbulent water)		
TLM fish 2	> 1000 ppm (96 h; Pisces)		
Threshold limit other aquatic organisms 1	3000 mg/l (Plankton)		
Threshold limit other aquatic organisms 2	28 mg/l (Protozoa)		
Threshold limit algae 1	7500 mg/l (Scenedesmus quadricauda; pH = 7)		
Threshold limit algae 2	3400 mg/l (48 h; Chlorella sp.)		
12.2. Persistence and degradability			
MIGHTY NON-CHLORINATED BRAKE CLEAN			
Persistence and degradability	Not established.		
Toluene (108-88-3)			
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.		
Biochemical oxygen demand (BOD)	2.15 g O 2 /g substance		
Chemical oxygen demand (COD)	2.52 g O 2 /g substance		
ThOD	3.13 g O 2 /g substance		
BOD (% of ThOD)	0.69 % ThOD		
Benzene (71-43-2)			
Persistence and degradability	Readily biodegradable in water. Ozonation in water. Forming sediments in water.		
	Biodegradable in the soil. Low potential for adsorption in soil. Photolysis in the air.		
Biochemical oxygen demand (BOD)	2.18 g O 2 /g substance		
Chemical oxygen demand (COD)	2.15 g O 2su/pstance		
ThOD	3.10 g O 2 /g substance		
BOD (% of ThOD)	0.70 % ThOD		
Acetone (67-64-1)			
Persistence and degradability	Not established.		
Methanol (67-56-1)			
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.		
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O ₂ /g substance		
Chemical oxygen demand (COD)	1.42 g O 2 /g substance		
ThOD	1.5 g O 2 /g substance		
BOD (% of ThOD)	0.8 % ThOD		

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Acetone (67-64-1)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under	
· createrior and degradability	anaerobic conditions. No (test)data on mobility of the substance available. Not established.	
Biochemical oxygen demand (BOD)	1.43 g O 2 /g substance	
Chemical oxygen demand (COD)	1.92 g O ₂ /g substance	
ThOD	2.20 g O ₂ /g substance	
BOD (% of ThOD)	(20 day(s)) 0.872	
2.3. Bioaccumulative potential		
MIGHTY NON-CHLORINATED BRAKE C	LEANER 5 GALLON	
Log Pow	-0.24 (Test data)	
Bioaccumulative potential	Not established.	
Toluene (108-88-3)		
BCF fish 1	13.2 (Anguilla japonica)	
BCF fish 2	90 (72 h; Leuciscus idus)	
BCF other aquatic organisms 1	380 (24 h; Chlorella sp.; Fresh weight)	
BCF other aquatic organisms 1	4.2 (Mytilus edulis; Fresh weight)	
Log Pow	2.73 (Experimental value; Other; 20 °C)	
•	Low potential for bioaccumulation (BCF < 500).	
Bioaccumulative potential	Low potential for bloaccumulation (BCF < 500).	
Benzene (71-43-2)		
BCF fish 1	19 Salmo gairdneri (Oncorhynchus mykiss)	
BCF fish 2	< 10 (3 days; Leuciscus idus)	
BCF other aquatic organisms 1	30 (24 h; Chlorella sp.; Fresh weight)	
Log Pow	2.13 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Acetone (67-64-1)	Nerseetablest	
Bioaccumulative potential	Not established.	
Methanol (67-56-1)		
BCF fish 1	< 10 (72 h; Leuciscus idus)	
BCF fish 2	1 (72 h; Cyprinus carpio; Blood)	
Log Pow	-0.77 (Experimental value; Other)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Acotono (67.64.4)		
Acetone (67-64-1) BCF fish 1		
BCF other aquatic organisms 1	0.69 (Pisces) 3	
· •		
Log Pow Bioaccumulative potential	-0.24 (Test data) Not bioaccumulative. Not established.	
Bioaccumulative potential	Not bloaccumulative. Not established.	
2.4. Mobility in soil		
Talaana (400.00.0)		
Toluene (108-88-3)		
Surface tension	0.03 N/m (20 °C)	
Benzene (71-43-2)		
Surface tension	0.029 N/m (20 °C)	
Methanol (67-56-1)		
Surface tension	0.023 N/m (20 °C)	
Acetone (67-64-1)		
Surface tension	0.0237 N/m (20 °C)	
2.5. Other adverse effects		
Other information	: Avoid release to the environment.	
SECTION 13: Disposal consideration	lions	
3.1. Waste treatment methods		
	: 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.	
Vaste disposal recommendations		
Vaste disposal recommendations	contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.	
	contents/container to appropriate waste disposal facility, in accordance with local, regional,	

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SECTION 14: Transport information

SECTION 14: Transport into			
In accordance with ADR / RID / IMDO	G / IATA / ADN		
US DOT (ground): UN1993, FI	UN1993, Flammable liquids, n.o.s. (Methanol, Toluene, Acetone), 3, II		
ICAO/IATA (air): UN1993, FI	UN1993, Flammable liquids, n.o.s. (Methanol, Toluene, Acetone), 3 , II		
IMO/IMDG (water): UN1993, FI	ammable liquids, n.o.s. (Methanol, Toluene, Acetone), 3, II		
Requiremen C (1.3 bar a T7 - 4 178.2 TP1 - The r 97 / 1 + a (t celsius of t TP8 - A por hazardous TP28 - A po pressure is	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal		
14.2. UN proper shipping name			
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s. (Methanol, Toluene, Acetone)		
Department of Transportation (DOT) Classes	Hazard : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120		
Hazard labels (DOT)	: 3 - Flammable liquid		
DOT Symbols	: G - Identifies PSN requiring a technical name		
Packing group (DOT)	: II - Medium Danger		
NOT Special Brovisions (40 CEP 172 102) . IB2 Authorized IRCs: Matel (21A, 21B and 21N): Digid plastics (21H1 and 21H2): Composite			

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F). TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP. DOT Packaging Exceptions (49 CFR 173.xxx) : 150 DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 242 14.3. Additional information Other information : No supplementary information available. **Overland transport** No additional information available Transport by sea DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 60 L CFR 175.75)

section is exceeded.

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SECTION 15: Regulatory information		
15.1. US Federal regulations		
MIGHTY NON-CHLORINATED BRAKE CLEAN	ER 5 GALLON	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard	
Toluene (108-88-3)		
Listed on United States SARA Section 313 Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory	
SARA Section 311/312 Hazard Classes Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard		
Methanol (67-56-1)		
Listed on United States SARA Section 313 Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory	
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard		
Acetone (67-64-1)		
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory	
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard Fire hazard Delayed (chronic) health hazard		

15.2. International regulations

CANADA

MIGHTY NON-CHLORINATED BRAKE CLEAN	ER 5 GALLON
WHMIS Classification	Class B Division 2 - Flammable Liquid
Toluene (108-88-3)	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Methanol (67-56-1)	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Acetone (67-64-1)	
Listed on the Canadian DSL (Domestic Sustance	s List)
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations

Toluene (108-88-3)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Acetone (67-64-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)- Directive 79/831/EEC, sixth Amendment of Directive 67/548/EEC (dangerous substances) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

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

Repr.Cat.3; R63 F; R11 T; R23/24/25 T; R39/23/24/25 Xn; R65 Xn; R48/20 Xi; R36/38 Full text of R-phrases: see section 16

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15.2.2. National regulations

Acetone (67-64-1)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECI (Korean Existing Chemicals Inventory) Listed on AICS (Australian Inventory of Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List)

15.3. US State regulations

MIGHTY NON-CHLORINATED BRAKE CLEANER 5 G	ALLON
State or local regulations	U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

Acetone (67-64-1)				
U.S California -	U.S California -	U.S California -	U.S California -	No significance risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
Yes				

Toluene (108-88-3)

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

Acetone (67-64-1)

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

Benzene 71-43-2

U.S. - Massachusetts - Right To Know List

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

dication of changes	: Revision - See : *.	
ther information	: None.	
Ill text of H-phrases: see section 16:		
Acute Tox. 3 (Dermal)		Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:dust,mist)		Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)		Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation:dust,mist)		Acute toxicity (inhalation:dust,mist) Category 4
Asp. Tox. 1		Aspiration hazard Category 1
Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A
Flam. Liq. 2		Flammable liquids Category 2
Repr. 2		Reproductive toxicity Category 2
Skin Irrit. 2		Skin corrosion/irritation Category 2
STOT RE 2		Specific target organ toxicity (repeated exposure) Category 2
STOT SE 1		Specific target organ toxicity (single exposure) Category 1
STOT SE 3		Specific target organ toxicity (single exposure) Category 3
H225		Highly flammable liquid and vapor
H301		Toxic if swallowed
H304		May be fatal if swallowed and enters airways
H311		Toxic in contact with skin
H315		Causes skin irritation
H319		Causes serious eye irritation
H331		Toxic if inhaled
H332		Harmful if inhaled
H336		May cause drowsiness or dizziness
H361		Suspected of damaging fertility or the unborn child
H370		Causes damage to organs
H373		May cause damage to organs through prolonged or repeated exposure

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NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 3 - Liquids and solids that can be ignited under almost all ambient conditions.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: B

SDS US (GHS HazCom 2012) - TCC

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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