



# Safety Data Sheet

Issue Date: 20-Apr-2012

Revision Date: 27-July-2017

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Autoguard Non-Chlorinated Brake Cleaner 13 Oz.

### Other means of identification

**SDS #** AG-025

### Recommended use of the chemical and restrictions on use

**Recommended Use** Brake Parts Cleaner

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

Warren Oil Company, LLC  
2340 U.S. Highway 301 North  
Dunn, NC 28334

### Emergency Telephone Number

**Company Phone Number** 1-800-428-9284  
**Emergency Telephone (24 hr)** CHEMTREC 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification (GHS-US)

Flam. Aerosol 2	H223
Compressed gas	H280
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Repr. 2	H361
STOT SE 1	H370
STOT SE 3	H336
STOT SE 2	H373

Full text of H-phrases: See Section 16

### Label elements



### Signal word (GHS-US)

Danger

### Hazard statement

H223 – Flammable aerosol  
H280 – Contains gas under pressure; may explode if heated  
H315 – Causes skin irritation  
H319 – Causes serious eye irritation  
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

**Precautionary statement (GHS-US)** P201 – Obtain special instructions  
 P202 – Do not handle until all safety precautions have been read and understood  
 P210 – Keep away from heat, sparks, open flames, hot surfaces. – NO SMOKING  
 P211 – Do not spray on an open flame or other ignition source  
 P251 – Pressurized container: Do not pierce or burn, even after use  
 P260 – Do not breathe dust, fumes, gas, mist, vapor spray  
 P261 – Avoid breathing dust, fumes, gas, mist, vapor spray  
 P264 – Wash affected areas thoroughly after handling  
 P270 – Do not eat, drink or smoke when using this product  
 P271 – Use only outdoors, or in a well-ventilated area  
 P280 – Wear protective gloves, protective clothing, eye protection, face protection  
 P302+P352 – If on skin: Wash with plenty of soap and water  
 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 on SDS  
 P332+P313 – If skin irritation occurs: Get medical attention  
 P337+P313 – If eye irritation persists: Get medical attention  
 P362+P364 – Take off contaminated clothing and wash before reuse  
 P403+P233 – Store in a well-ventilated place. Keep container tightly closed  
 P405 – Store locked up  
 P410+P403 – Protect from sunlight. Store in a well-ventilated place  
 P410+P412 – Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F  
 P501 – Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

**Other hazards**  
 Other hazards not contributing to the classification: Contains gas under pressure; may explode if heated. None under normal conditions.

**Unknown acute toxicity (GHS-US)**  
 No data available

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance**  
 Not applicable

**Mixture**

Name	Product Identifier	% by wt	GHS-US Classification
Acetone	(CAS No.) 67-64-1	70 - 85	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Carbon Dioxide, Liquefied, Under Pressure	(CAS No.) 124-38-9	10 - 30	Compressed gas, H280
Toluene	(CAS No.) 108-88-3	5 - 10	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	1 - 5	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
----------	-------------------	-------	--

The exact percentage is a trade secret.

#### 4. FIRST-AID MEASURES

##### Description of first aid measures

- First-aid measures general: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician.
- First-aid measures after inhalation: Cough. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. 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: Rinse cautiously with water for several minutes. Direct contact with the eyes is likely to be irritating. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

##### Most important symptoms/effects, acute and delayed

- Symptoms/injuries: Suspected of damaging fertility or the unborn child. Causes damage to organs.
- Symptoms/injuries after inhalation: Coughing. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Shortness of breath. May cause drowsiness or dizziness.
- Symptoms/injuries after skin contact: Itching. Red skin. Causes skin irritation.
- Symptoms/injuries after eye contact: Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue. Causes serious eye irritation.

##### Indication of immediate medical attention and special treatment needed

No additional information available

#### 5. FIRE-FIGHTING MEASURES

##### Extinguishing media

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

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

- Fire hazard: Flammable aerosol.
- Explosion hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

##### 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. DO NOT fight fire when fire reaches explosives. Evacuate area.
Protection during firefighting:	Do not enter fire area without proper protective equipment, including respiratory protection.
Other information:	Aerosol Level 2

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

General measures: No open flames. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.

### For non-emergency personnel

Protective equipment: Gloves. Safety glasses.

Emergency procedures: Evacuate unnecessary personnel.

### For emergency responders:

Protective equipment: Equip cleanup crew with proper protection. Avoid breathing dust, fume, gas, mist, vapor spray.

Emergency procedures: Ventilate area.

### Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### Methods and material for containment 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: Store away from other materials.

### Reference to other sections

See Section 8. Exposure controls and personal protection.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Additional hazards when processed: Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use.

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not spray on an open flame or other ignition source. Obtain special instructions. Do not handle until all safety precautions have been read and understood. Avoid breathing dust, fume, gas, mist, vapor spray. Use only outdoors or in a well-ventilated area.

Hygiene measures: Wash contaminated clothing before reuse. Wash affected areas thoroughly after handling. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**Conditions for safe storage, including any incompatibilities**

Technical measures:	Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.
Storage Conditions:	Keep only in the original container in a cool, well ventilated place away from: Do not expose to temperatures exceeding 50°C/122°F. Keep in fireproof place. Keep container tightly closed.
Incompatible products:	Strong bases. Strong acids.
Incompatible materials:	Sources of ignition. Direct sunlight. Heat sources.
Storage area:	Store in a well-ventilated place.

**Specific end use(s)**

Follow Label Directions.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

<b>Benzene (71-43-2)</b>		
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
<b>Toluene (108-88-3)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	75 mg/m <sup>3</sup>
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA)(ppm)	200 ppm
USA OSHA	OSHA PEL (Ceiling)(ppm)	300 ppm
<b>Carbon Dioxide, Liquefied, Under Pressure (124-38-9)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	9000 mg/m <sup>3</sup>
USA ACGIH	ACGIH TWA (ppm)	5000 ppm (Carbon dioxide; USA; Time-weighted average exposure limit 8 h; TLV – Adopted Value)
USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	54000
USA ACGIH	ACGIH STEL (ppm)	30000 ppm
USA OSHA	OSHA PEL (TWA)(mg/m <sup>3</sup> )	9000 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA)(ppm)	5000 ppm
<b>Methanol (67-56-1)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	262 mg/m <sup>3</sup>
USA ACGIH	ACGIH TWA (ppm)	200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV – Adopted Value)
USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	328 mg/m <sup>3</sup>
USA ACGIH	ACGIH STEL (ppm)	250 ppm
USA OSHA	OSHA PEL (TWA)(mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA)(ppm)	200 ppm
<b>Acetone (67-64-1)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1188 mg/m <sup>3</sup>
USA ACGIH	ACGIH TWA (ppm)	500 ppm
USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	1782 mg/m <sup>3</sup>
USA ACGIH	ACGIH STEL (ppm)	750 ppm
USA OSHA	OSHA PEL (TWA)(mg/m <sup>3</sup> )	2400 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA)(ppm)	1000 ppm

**Exposure controls**

Appropriate engineering controls: Local exhaust ventilation, vent hoods. Ensure good ventilation of the work station.

Personal protective equipment: Gloves. Safety glasses. Avoid all unnecessary exposure.



Materials for protective clothing: GIVE EXCELLENT RESISTANCE:

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.

Consumer exposure controls: Avoid contact during pregnancy/while nursing.

Other information: Do not eat, drink or smoke during use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

Physical state:	Gas
Appearance:	Liquid
Molecular mass:	58.08 g/mol
Color:	Colorless to light yellow
Odor:	Acetone odor. Solvent-like odor.
Odor threshold:	306 – 653 737 -1574 mg/m <sup>3</sup>
pH:	7
Relative evaporation rate (butylacetate=1):	6
Relative evaporation rate (ether-1):	2
Melting point:	-95 °C
Freezing point:	-78°C (Lowest Component-Acetone)
Boiling point:	56°C (Lowest Component-Acetone)
Flash point:	-18°C (Lowest Component-Acetone)
Auto-ignition temperature:	385°C (Lowest Component-Acetone)
Decomposition temperature:	No data available
Flammability (solid, gas):	No data available
Vapor pressure:	247 hPa
Vapor pressure at 50°C:	828 hPa
Critical pressure:	47010 hPa
Relative vapor density at 20°C:	2.0
Relative density:	0.81
Relative density of saturated gas/air mixture:	1.2
Specific gravity / density:	809 kg/m <sup>3</sup>

Solubility:	Soluble in water. Soluble in ethanol. Soluble in ether. Soluble in dimethyl ether. Soluble in petroleum spirit. Soluble in chloroform. Soluble in dimethylformamide. Soluble in oils/fats.
Log Pow	-0.24 (Test data)
Log Kow	No data available
Viscosity, kinematic:	0.417 mm <sup>2</sup> /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 <sup>3</sup>

#### Other Information

Minimum ignition energy:	1.15 mJ
Specific conductivity:	500000 pS/m
Saturation concentration:	589 g/m <sup>3</sup>
VOC content:	9.6%
Gas group:	Compressed gas

## 10. STABILITY AND REACTIVITY

#### Reactivity

No additional information available

#### Chemical stability

Flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

#### Possibility of hazardous reactions

Not established.

#### Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.

#### Incompatible materials

Strong acids. Strong bases.

#### Hazardous decomposition products

Toxic fume. Carbon monoxide. Carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

Acute toxicity: Not classified

<b>Benzene (71-43-2)</b>	
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)
<b>Toluene (108-88-3)</b>	
LD50 oral rat	5580 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Literature study; 5580 mg/kg bodyweight; Rat; Experimental value)
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)
<b>Methanol (67-56-1)</b>	
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
<b>Acetone (67-64-1)</b>	
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.

Carcinogenicity: Not Classified.

<b>Benzene (71-43-2)</b>	
IARC group	1
<b>Toluene (108-88-3)</b>	
IARC group	3

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single version): Causes damage to organs. May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): May cause damage to organs through prolonged or repeated exposure.

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: Coughing. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Shortness of breath. May cause drowsiness or dizziness.

Symptoms/injuries after skin contact: Itching. Red skin. Causes skin irritation.

Symptoms/injuries after eye contact: Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue. Causes serious eye irritation.



## 12. ECOLOGICAL INFORMATION

### Toxicity

<b>Benzene (71-43-2)</b>	
LC50 fish 1	5.3 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 2	10 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
Threshold limit algae 1	100 mg/l (ErC50 ; OECD 201 : Alga, Growth Inhibition Test ; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)
<b>Acetone (67-64-1)</b>	
EC50 Daphnia 2	12600 mg/l (LC50; Other; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
<b>Carbon Dioxide, Liquefied, Under Pressure (124-38-9)</b>	
LC50 fish 1	35 mg/l (LC50 ; 96 h; Salmo gairdneri)
<b>Methanol (67-56-1)</b>	
LC50 fish 1	15400 mg/l (LC50 ; EPA 660/3 – 75/009 ; 96 h; Lepomis macrochirus; Flow-through system ; Fresh water ; Experimental value)
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)
<b>Acetone (67-64-1)</b>	
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.)

### Persistence and degradability

<b>AUTOGUARD NON-CHLORINATED BRAKE CLEANER 13 Oz.</b>	
Persistence and degradability	Not established
<b>Benzene (71-43-2)</b>	
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 <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.15 g O <sub>2</sub> /g substance
ThOD	3.10 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.70
<b>Toluene (108-88-3)</b>	
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 <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.52 g O <sub>2</sub> /g substance
ThOD	3.13 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.69
<b>Acetone (67-64-1)</b>	
Persistence and degradability	Not established

<b>Carbon Dioxide, Liquefied, Under Pressure (124-38-9)</b>	
Persistence and degradability	Biodegradability; not applicable. Not applicable (gas).
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
<b>Methanol (67-56-1)</b>	
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 <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.42 g O <sub>2</sub> /g substance
ThOD	1.5 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.8 (Literature study)
<b>Acetone (67-64-1)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test) data on mobility of the substance available. Not established.
Biochemical oxygen demand (BOD)	1.43 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.92 g O <sub>2</sub> /g substance
ThOD	2.20 g O <sub>2</sub> /g substance
BOD (% of ThOD)	(20 day(s)) 0.872

**Bioaccumulative potential**

<b>AUTOGUARD NON-CHLORINATED BRAKE CLEANER 13 Oz.</b>	
Log Pow	-0.24 (Test data)
Bioaccumulative potential	Not established.
<b>Benzene (71-43-2)</b>	
BCF fish 1	19 (BCF)
BCF fish 2	< 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fist Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
BCF other aquatic organisms 1	30 (BCF; 24 h; Chlorella sp.)
Log Pow	2.13 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500)
<b>Toluene (108-88-3)</b>	
BCF fish 2	90 (BCF; 72 h; Leuciscus idus; Static system; Fresh water)
Log Pow	2.73 (Experimental value; Other; 20°C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>Acetone (67-64-1)</b>	
Bioaccumulative potential	Not established.
<b>Carbon Dioxide, Liquefied, Under Pressure (124-38-9)</b>	
Log Pow	0.83 (Experimental value)
Bioaccumulative potential	Bioaccumulation: not applicable.
<b>Methanol (67-56-1)</b>	
BCF fish 1	< 10 (BCF; 72 h; Leuciscus idus)
Log Pow	-0.77 (Experimental value; Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>Acetone (67-64-1)</b>	
BCF fish 1	0.69 (Pisces)
BCF other aquatic organisms 1	3
Log Pow	-0.24 (Test data)
Bioaccumulative potential	Not bioaccumulative. Not established.

**Mobility in soil**

<b>Benzene (71-43-2)</b>	
Surface tension	0.029 N/m (20°C)
Log Koc	Koc, 134.1; QSAR

<b>Toluene (108-88-3)</b>	
Surface tension	0.03 N/m (20°C)
<b>Methanol (67-56-1)</b>	
Surface tension	0.023 N/m (20°C)
Log Koc	Koc,PCKOCWIN v1.66; 1; Calculated value
<b>Acetone (67-64-1)</b>	
Surface tension	0.0237 N/m (20°C)

**Other adverse effects**

Other information : Avoid release to the environment.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

Additional information: Flammable vapors may accumulate in the container.

Ecology – waste materials: Avoid release to the environment.

**14. TRANSPORT INFORMATION**

In accordance with ADR / RID / IMDG / IATA / ADN

US DOT (ground): UN1950, Aerosols, 2.1, Limited Quantity

ICAO/IATA (air): UN1950, Aerosols, 2.1, Limited Quantity

IMO/IMDG (water): UN1950, Aerosols, 2.1, Limited Quantity

Special Provisions: N82 – See 173.306 of this subchapter for classification criteria for flammable aerosols.

**UN proper shipping name**

Proper Shipping Name (DOT): Aerosols  
Flammable, (each not exceeding 1 L capacity)

Transport hazard class(es) (DOT): 2.1 – Class 2.1 – Flammable gas 49 CFR 173.115

Hazard labels (DOT): 2.1 – Flammable gas



DOT Special Provisions (49 CFR 172.102): N82 – See 173.306 of this subchapter for classification criteria for flammable aerosols.

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

**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/ 75 kg rail (49 CFR 173.27)

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

**15. REGULATORY INFORMATION**

**US Federal Regulations**

<b>AUTOGUARD NON-CHLORINATED BRAKE CLEANER 13 Oz.</b>	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard Sudden release of pressure hazard
<b>Benzene (71-43-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313	
<b>Toluene (108-88-3)</b>	
Subject to reporting requirements of United States SARA Section 313 Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard
<b>Carbon Dioxide, Liquefied, Under Pressure (124-38-9)</b>	
SARA Section 311/312 Hazard Classes	Sudden release of pressure hazard Immediate (acute) health hazard
<b>Methanol (67-56-1)</b>	
Subject to reporting requirements of United States SARA Section 313 Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302 Listed on the United States SARA Section 355	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard

<b>Acetone (67-64-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard Delayed (chronic) health hazard

**International regulations****Canada**

<b>AUTOGUARD NON-CHLORINATED BRAKE CLEANER</b>	
WHMIS Classification	Class B Division 5 – Flammable Aerosol
<b>Benzene (71-43-2)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Toluene (108-88-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class B Division 2 – Flammable Liquid Class D Division 1 Subdivision A – Very toxic material causing other toxic effects Class D Division 2 Subdivision B – Toxic material causing other toxic effects
<b>Methanol (67-56-1)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
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
<b>Acetone (67-64-1)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
	Class B Division 2 – Flammable Liquid Class D Division 2 Subdivision B – Toxic material causing other toxic effects

**EU-Regulations**

<b>Toluene (108-88-3)</b>	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
<b>Methanol (67-56-1)</b>	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
<b>Acetone (67-64-1)</b>	
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  
Xn; R20/21/22  
Xn; R68/20/21/22  
Xn; R48/20  
Xi; R36/38

Full text of R-phrases: see Section 16

**National Regulations**

<b>Benzene (71-43-2)</b>
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
<b>Toluene (108-88-3)</b>
<b>Methanol (67-56-1)</b>
Listed on the Canadian IDL (Ingredient Disclosure List)
<b>Acetone (67-64-1)</b>
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 the AICS (Australian Inventory of Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List)

**US State regulations**

<b>AUTOGUARD NON-CHLORINATED BRAKE CLEANER 13 Oz.</b>				
U.S. – California – Proposition 65 – Carcinogens List		No		
U.S. – California – Proposition 65 – Developmental Toxicity		No		
U.S. – California – Proposition 65 – Reproductive Toxicity - Female		No		
U.S. – California – Proposition 65 – Reproductive Toxicity - Male		No		
State or local regulations		U.S. – California – Proposition 65 – Maximum Allowable Dose Levels (MADL)		
<b>Benzene (71-43-2)</b>				
U.S. – California – Proposition 65 – Carcinogens List	U.S. – California – Proposition 65 – Developmental Toxicity	U.S. California – Proposition 65 – Reproductive Toxicity - Female	U.S. California – Proposition 65 – Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	Yes	No	Yes	
<b>Toluene (108-88-3)</b>				
U.S. – California – Proposition 65 – Carcinogens List	U.S. – California – Proposition 65 – Developmental Toxicity	U.S. California – Proposition 65 – Reproductive Toxicity - Female	U.S. California – Proposition 65 – Reproductive Toxicity - Male	No significance risk level (NSRL)
No	Yes	No	No	
<b>Acetone (67-64-1)</b>				
U.S. – California – Proposition 65 – Carcinogens List	U.S. – California – Proposition 65 – Developmental Toxicity	U.S. California – Proposition 65 – Reproductive Toxicity - Female	U.S. California – Proposition 65 – Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No	No	
<b>Carbon Dioxide, Liquefied, Under Pressure (124-38-9)</b>				
U.S. – California – Proposition 65 – Carcinogens List	U.S. – California – Proposition 65 – Developmental Toxicity	U.S. California – Proposition 65 – Reproductive Toxicity - Female	U.S. California – Proposition 65 – Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No	No	
<b>Methanol (67-56-1)</b>				
U.S. – California – Proposition 65 – Carcinogens List	U.S. – California – Proposition 65 – Developmental Toxicity	U.S. California – Proposition 65 – Reproductive Toxicity - Female	U.S. California – Proposition 65 – Reproductive Toxicity - Male	No significance risk level (NSRL)
No	Yes	No	No	

<b>Acetone (67-64-1)</b>				
U.S. – California – Proposition 65 – Carcinogens List	U.S. – California – Proposition 65 – Developmental Toxicity	U.S. California – Proposition 65 – Reproductive Toxicity - Female	U.S. California – Proposition 65 – Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	
<b>Benzene (71-43-2)</b>				
<b>State or local regulations</b>				
U.S. – California – Proposition 65 – Maximum Allowable Dose Levels (MADL) U.S. – Pennsylvania – RTK (Right-to-Know ) List New Jersey Right-to-Know				
<b>Toluene (108-88-3)</b>				
<b>State or local regulations</b>				
U.S. – California – Proposition 65 – Maximum Allowable Dose Levels (MADL) U.S. – New Jersey – Special Health Hazards Substances List New Jersey Right-to-Know U.S. – Massachusetts – Right-to-Know List Rhode Island Right-to-Know U.S. – Michigan – Critical Materials List U.S. – New Jersey – Environmental Hazardous Substances List U.S. – Illinois – Toxic Air Contaminants U.S. – New York – Reporting of Releases Part 597 – List of Hazardous Substances U.S. – Pennsylvania – RTK (Right to Know) – Environmental Hazard List				
<b>Methanol (67-56-1)</b>				
<b>State or local regulations</b>				
U.S. – California – Proposition 65 – Maximum Allowable Dose Levels (MADL) New Jersey Right-to-Know Florida Right to Know U.S. – Massachusetts – Right-to-Know U.S. – Pennsylvania – RTK (Right to Know) List				
<b>Acetone (67-64-1)</b>				
<b>State or local regulations</b>				
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 – Environmental Hazardous Substances List U.S. – Pennsylvania – RTK (Right to Know) – Environmental Hazard List				

**16. OTHER INFORMATION**

Other information

Full test of H-phrases:

H223	Flammable aerosol
H225	Highly flammable liquid and vapor
H280	Contains gas under pressure; may exploded if heated
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
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

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: 1 Slight Hazard  
 Personal Protection: B

**Issue Date:** 20-Apr-2012  
**Revision Date:** 26-July-2017  
**Revision Note:** Chemical change

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**