

Freedom Clean 1776 Non-Chlorinated Brake Cleaner

Safety Data Sheet

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)
Issue date: 8/13/2026 Version: 1.0

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Trade name : Freedom Clean 1776 Non-Chlorinated Brake Cleaner
Product code : 0009

1.2. Other means of identification

Other means of identification : Non-Chlorinated Aerosol Brake Cleaner (14 oz aerosol)

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Brake and parts cleaner. Flushes grease, oil, brake dust, and contaminants from brake components and metal parts.
Restrictions on use : Any use other than the identified use. Not for consumer use in confined or unventilated spaces.

1.4. Supplier's details

Freedom Clean 1776
P.O. Box 126301
Benbrook, TX 76126
USA
T +1 817-205-2562
sales@freedomclean1776.com

1.5. Emergency phone number

Emergency number : For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virginia, USA)
CCN 1018872
Back-up Emergency Number: +1 703-741-5970 (Washington, DC)

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Aerosol, Category 2	H223;H229	Flammable aerosol. Pressurized container; may burst if heated.
Acute toxicity (oral), Category 3	H301	Toxic if swallowed.
Acute toxicity (dermal), Category 3	H311	Toxic in contact with skin.
Acute toxicity (inhalation), Category 3	H331	Toxic if inhaled.
Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 2A	H319	Causes serious eye irritation.
Reproductive toxicity, Category 2	H361	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity — Single exposure, Category 1	H370	Causes damage to organs (visual organ, central nervous system).
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336	May cause drowsiness or dizziness.
Specific target organ toxicity — Repeated exposure, Category 2	H373	May cause damage to organs (central nervous system) through prolonged or repeated exposure (Inhalation).
Aspiration hazard, Category 1	H304	May be fatal if swallowed and enters airways.

Full text of H statements : see section 16

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2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H223 - Flammable aerosol
H229 - Pressurized container; may burst if heated
H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled
H304 - May be fatal if swallowed and enters airways
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 (visual organ, central nervous system).
H373 - May cause damage to organs (central nervous system) through prolonged or repeated exposure (Inhalation)

Precautionary statements (GHS US)

: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Do not breathe mist, spray, vapors.
Wash hands, forearms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, protective clothing, eye and face protection.
If swallowed: Immediately call a poison center or doctor.
Rinse mouth.
Do NOT induce vomiting.
If on skin: Wash with plenty of water.
Take off immediately all contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice or attention.
Call a poison center or doctor.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If exposed or concerned: Call a poison center or doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice or attention.
If exposed or concerned: Get medical advice/attention.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 122 °F (50 °C).
Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

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2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Acetone	CAS-No.: 67-64-1	30 – 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Methyl alcohol	CAS-No.: 67-56-1	10 – 30	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 STOT SE 1, H370
Toluene	CAS-No.: 108-88-3	10 – 30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
Heptane, branched, cyclic and linear	CAS-No.: 426260-76-6	12.24 – 12.75	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Carbon dioxide	CAS-No.: 124-38-9	5 – 10	Press. Gas (Comp.), H280 Simple Asphy. 1, SIAS
Heptane (mixed isomers)	CAS-No.: 142-82-5	3.188 – 5.738	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Comments : *Chemical name, CAS number and/or exact concentration have been withheld as a trade secret
Full text of hazard classes and H-statements : see section 16

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SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but, not mouth-to-mouth. If you feel unwell, seek medical advice.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Lay in a stable manner on victim's side. Induce artificial respiration with mask fitted with one-way valve or other suitable device; not mouth-to-mouth. Call a physician immediately.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Immediately call a poison center or doctor/physician.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Immediately call a poison center or doctor/physician.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: May cause drowsiness or dizziness. Toxic if inhaled. Aspiration of the product into the lungs may cause very serious pneumonia.
Symptoms/effects after skin contact	: Causes skin irritation. Toxic in contact with skin.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Toxic if swallowed. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.
Chronic symptoms	: Suspected of damaging fertility or the unborn child. Causes damage to organs (central nervous system, visual organ). May cause damage to organs through prolonged or repeated exposure.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Call a physician immediately. Following inhalation: Subsequent observance for pneumonia and lung edema.
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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Dry chemical, CO ₂ , or water spray or regular foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	: Flammable aerosol.
Explosion hazard	: Pressurized container: may burst if heated. May form flammable/explosive vapor-air mixture. Prolonged exposure to fire may cause containers to rupture/explode.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Evacuate area. Fight fire from safe distance and protected location. Eliminate all ignition sources if safe to do so. Small fires: Do not extinguish a leaking gas flame unless absolutely necessary. Contain and let burn. If fire must be fought, water spray or fog is recommended. Move containers from fire area if it can be done without personal risk. Large fires: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. Do not direct water at source of leak or at safety devices as freezing could occur. Withdraw immediately in case of rising sound from venting devices or discoloration from tank. ALWAYS stay away from tanks engulfed in fire. Prevent fire-fighting water from entering environment.
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Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Do not enter without an appropriate protective equipment. Do not take actions involving personal risks. Avoid all personal contact including breathing in the gas, vapors. Absorb spillage to prevent material-damage. Stop leak if safe to do so. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Evacuate the danger area. If outdoors, move to an area upwind of the danger area. Do not breathe fume, gas, vapors. If possible without taking personal risks, Remove ignition sources, ventilate area. Monitor concentration of released product. Prevent other non-emergency personnel from entering the danger area. Only qualified personnel equipped with suitable protective equipment may intervene.

For emergency responders

Protective equipment : Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE). Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

Environmental precautions : Avoid release to the environment. Notify authorities if the product reaches soil, drains, sewers, surface waters or groundwater.

6.2. Methods and materials for containment and cleaning up

For containment : Stop leak, if possible without risk. If the leak cannot be stopped, allow the gas to release in place or remove to a safe, well-ventilated area and allow the release. For large spills, use water spray to disperse vapors, flush spill area.

Methods for cleaning up : Ventilate spillage area. Do not touch or walk on the spilled product.

Other information : Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

See section 8 of the SDS for more information on personal protective equipment, For further information refer to section 13

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep reduction valves free from grease and oil. Do not breathe fume, gas, vapors. Use only outdoors or in a well-ventilated area. Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

Hygiene measures : Always wash hands after handling the product. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

Additional hazards when processed : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurized container: Do not pierce or burn, even after use.

7.2. Conditions for safe storage, including incompatibilities

Technical measures : Ground/bond container and receiving equipment. Use explosion-proof electrical, lighting, ventilating equipment. Use only non-sparking tools.

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Storage conditions	: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Store in a cool, dry and well-ventilated area away from incompatible substances. Store carefully closed containers upright to prevent any leaks.
Incompatible materials	: Strong acids. Strong bases.
Storage temperature	: 50 °C / 122 °F
Packaging materials	: Always store product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Acetone (67-64-1)	
USA - ACGIH® - Threshold Limit Values	
Local name	Acetone
ACGIH® TLV® TWA	594 mg/m ³
	250 ppm
ACGIH® TLV® STEL	1187 mg/m ³
	500 ppm
Remark (ACGIH®)	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2026
USA - ACGIH® - Biological Exposure Indices	
Local name	Acetone
BEI	25 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift - Notations: Ns
Regulatory reference	ACGIH 2026
USA - OSHA - Occupational Exposure Limits	
Local name	Acetone
OSHA PEL TWA	2400 mg/m ³
	1000 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - NIOSH - Occupational Exposure Limits	
Local name	Acetone
NIOSH REL 10h TWA	250 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))
Methyl alcohol (67-56-1)	
USA - ACGIH® - Threshold Limit Values	
Local name	Methanol
ACGIH® TLV® TWA	262 mg/m ³
	200 ppm
ACGIH® TLV® STEL	328 mg/m ³
	250 ppm

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Methyl alcohol (67-56-1)	
Remark (ACGIH®)	TLV® Basis: Headache; eye dam; dizziness; nausea. Notations: Skin; BEI
Regulatory reference	ACGIH 2026
USA - ACGIH® - Biological Exposure Indices	
Local name	Methanol
BEI	15 mg/l Parameter: Methanol - Medium: urine - Sampling time: End of shift - Notations: B, Ns
Regulatory reference	ACGIH 2026
USA - OSHA - Occupational Exposure Limits	
Local name	Methyl alcohol
OSHA PEL TWA	260 mg/m³
	200 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - NIOSH - Occupational Exposure Limits	
Local name	Methyl alcohol
NIOSH REL 10h TWA	200 ppm
NIOSH REL STEL	250 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))
Toluene (108-88-3)	
USA - ACGIH® - Threshold Limit Values	
Local name	Toluene
ACGIH® TLV® TWA	20 ppm
Remark (ACGIH®)	TLV® Basis: CNS, Hearing & Visual impair; Female repro system eff; Pregnancy loss. Notations: OTO (Ototoxicant); A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2026
USA - ACGIH® - Biological Exposure Indices	
Local name	Toluene
BEI	0.3 mg/g Kreatinin Parameter: o-Cresol - Medium: urine - Sampling time: End of shift - Notations: B 0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: Prior to last shift of workweek 0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: End of shift
Regulatory reference	ACGIH 2026
USA - OSHA - Occupational Exposure Limits	
Local name	Toluene
OSHA PEL TWA	200 ppm
OSHA PEL C	300 ppm
Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	500 ppm 10 mins.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-2

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Toluene (108-88-3)	
USA - NIOSH - Occupational Exposure Limits	
Local name	Toluene
NIOSH REL 10h TWA	100 ppm
NIOSH REL STEL	150 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-2 (NIOSH Pocket Guide to Chemical Hazards (NPG))
Carbon dioxide (124-38-9)	
USA - ACGIH® - Threshold Limit Values	
Local name	Carbon dioxide
ACGIH® TLV® TWA	9000 mg/m³
	5000 ppm
ACGIH® TLV® STEL	54000 mg/m³
	30000 ppm
Remark (ACGIH®)	TLV® Basis: Asphyxia
Regulatory reference	ACGIH 2026
USA - OSHA - Occupational Exposure Limits	
Local name	Carbon dioxide
OSHA PEL TWA	9000 mg/m³
	5000 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - NIOSH - Occupational Exposure Limits	
Local name	Carbon dioxide
NIOSH REL 10h TWA	5000 ppm
NIOSH REL STEL	30000 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))
Heptane (mixed isomers) (142-82-5)	
USA - ACGIH® - Threshold Limit Values	
Local name	Heptane, isomers (n-Heptane)
ACGIH® TLV® TWA	400 ppm
ACGIH® TLV® STEL	500 ppm
Remark (ACGIH®)	TLV® Basis: URT irr; Lung dam; CNS impair; Ototoxicity. Notations: OTO (Ototoxicant)
Regulatory reference	ACGIH 2026
USA - OSHA - Occupational Exposure Limits	
Local name	Heptane (n-Heptane)
OSHA PEL TWA	2400 mg/m³
	500 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

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Heptane (mixed isomers) (142-82-5)

USA - NIOSH - Occupational Exposure Limits

Local name	Heptane (n-Heptane)
NIOSH REL 10h TWA	85 ppm
NIOSH REL STEL	440 ppm [15-min]
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Use general ventilation, local exhaust ventilation, or process enclosure to keep the airborne concentrations below the permissible exposure limits. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Environmental exposure controls	: Avoid release to the environment. Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment. Wear recommended personal protective equipment.

Hand protection:

Wear protective gloves

Eye protection:

Wear safety glasses which protect from splashes

Skin and body protection:

Wear suitable protective clothing. Wear fire/flammable resistant/retardant clothing.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Self-contained breathing apparatus

Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid packaged as a spray aerosol.
Color	: Clear to light yellow
Odor	: Solvent-like
Odor threshold	: No data available
pH	: Not applicable (non-aqueous solvent blend)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 56.1 °C / 132.98 °F

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Flash point	: -18 °C / -0.4 °F (Lowest Component-Acetone)
Flammability (solid, gas)	: Flammable aerosol.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 0.82
Solubility	: Water: Poorly soluble in water
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Explosive properties	: Flammable chemical under pressure: May explode if heated.
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

Flammable aerosol.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Vapors may form flammable and explosive mixture with air.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Thermal decomposition generates: Carbon dioxide. Carbon monoxide.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Toxic if swallowed.
Acute toxicity (dermal)	: Toxic in contact with skin.
Acute toxicity (inhalation)	: Toxic if inhaled.

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ATE US (oral)	256.519 mg/kg body weight
ATE US (dermal)	463.633 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	3 mg/l/4h

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ATE US (dust, mist)	0.5 mg/l/4h
Acetone	
LD50 oral rat	5800 mg/kg body weight
LD50 oral	6667 mg/kg
LD50 dermal rabbit	> 15800 mg/kg
LD50 dermal	20000 mg/kg
LC50 Inhalation - Rat	> 20 mg/l/4h
LC50 Inhalation - Rat (Vapors)	76 mg/l
Methyl alcohol	
LD50 oral rat	1187 – 2769 mg/kg body weight
LD50 dermal rabbit	17100 mg/kg body weight
LC50 Inhalation - Rat	> 20 mg/l/4h
Toluene	
LD50 oral rat	5580 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg body weight
LC50 Inhalation - Rat	12.5 mg/l
Heptane (mixed isomers)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	103 mg/m ³
LC50 Inhalation - Rat (Vapors)	25132 ppmv
Skin corrosion/irritation	: Causes skin irritation. pH: Not applicable (non-aqueous solvent blend)
Acetone	
pH	5
Methyl alcohol	
Additional information	Not irritating to rabbits on cutaneous application
Serious eye damage/irritation	: Causes serious eye irritation. pH: Not applicable (non-aqueous solvent blend)
Acetone	
pH	5
Methyl alcohol	
Additional information	Not irritating to rabbits on ocular application
Respiratory or skin sensitization	: Not classified

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Methyl alcohol	
Additional information	Does not cause cutaneous sensitization for guinea-pigs
Germ cell mutagenicity	: Not classified
Methyl alcohol	
Additional information	Mutagenicity tests are negative
Carcinogenicity	: Not classified
Toluene	
IARC group	3 - Not classifiable
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Acetone	
LOAEL (animal/female, F0/P)	11298 mg/kg body weight
NOAEL (animal/male, F0/P)	900 mg/kg body weight
Toluene	
LOAEL (animal/female, F0/P)	520 mg/kg body weight
STOT-single exposure	: Causes damage to organs (visual organ, central nervous system). May cause drowsiness or dizziness.
Acetone	
STOT-single exposure	May cause drowsiness or dizziness.
Methyl alcohol	
STOT-single exposure	Causes damage to organs (visual organ, central nervous system).
Toluene	
STOT-single exposure	May cause drowsiness or dizziness.
Heptane, branched, cyclic and linear	
STOT-single exposure	May cause respiratory irritation.
Heptane (mixed isomers)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: May cause damage to organs (central nervous system) through prolonged or repeated exposure (Inhalation).
Acetone	
NOAEL (oral, rat, 90 days)	900 mg/kg bw/day
Toluene	
LOAEL (oral, rat, 90 days)	1250 mg/kg body weight
NOAEL (oral, rat, 90 days)	625 mg/kg body weight
NOAEC (inhalation, rat, vapor, 90 days)	2.355 mg/l air
STOT-repeated exposure	May cause damage to organs (central nervous system) through prolonged or repeated exposure (Inhalation).

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Heptane (mixed isomers)	
LOAEC (inhalation, rat, vapor, 90 days)	16.6 mg/l air
NOAEC (inhalation, rat, vapor, 90 days)	3.3 mg/l air
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/effects after inhalation	: May cause drowsiness or dizziness. Toxic if inhaled. Aspiration of the product into the lungs may cause very serious pneumonia.
Symptoms/effects after skin contact	: Causes skin irritation. Toxic in contact with skin.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Toxic if swallowed. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.
Chronic symptoms	: Suspected of damaging fertility or the unborn child. Causes damage to organs (central nervous system, visual organ). May cause damage to organs through prolonged or repeated exposure.

SECTION 12 Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects

Acetone	
LC50 - Fish [1]	8300 mg/l
EC50 - Crustacea [1]	8450 mg/l
ErC50 algae	7200 mg/l
LOEC (chronic)	> 79 mg/l
NOEC (chronic)	≥ 79 mg/l
NOEC chronic crustacea	2212 mg/l
Methyl alcohol	
LC50 - Fish [1]	15400 mg/l
EC50 96h - Algae [1]	≈ 22000 mg/l
NOEC (chronic)	208 mg/l
NOEC chronic fish	446.7 mg/l
Toluene	
LC50 - Fish [1]	5.5 mg/l
LOEC (chronic)	2.76 mg/l
NOEC chronic fish	1.39 mg/l
NOEC chronic crustacea	0.74 mg/l
Heptane, branched, cyclic and linear	
LC50 - Fish [1]	4 mg/l
EC50 - Crustacea [1]	1.5 mg/l
ErC50 algae	3.7 mg/l

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Heptane (mixed isomers)

LC50 - Fish [1]	5.738 mg/l
EC50 - Crustacea [1]	0.1 mg/l
LOEC (chronic)	0.32 mg/l
NOEC (chronic)	0.17 mg/l

12.2. Persistence and degradability

Freedom Clean 1776 Non-Chlorinated Brake Cleaner

Persistence and degradability	Not established.
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Acetone

Persistence and degradability	Not rapidly degradable
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Methyl alcohol

Persistence and degradability	Readily biodegradable.
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Toluene

Persistence and degradability	Rapidly degradable
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Heptane, branched, cyclic and linear

Persistence and degradability	Not rapidly degradable
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Carbon dioxide

Persistence and degradability	The methods for determining biodegradability are not applicable to inorganic substances.
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Heptane (mixed isomers)

Persistence and degradability	Rapidly degradable
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12.3. Bioaccumulative potential

Acetone

Partition coefficient n-octanol/water (Log Pow)	-0.24
Partition coefficient n-octanol/water (Log Kow)	Not known.

Heptane, branched, cyclic and linear

Partition coefficient n-octanol/water (Log Pow)	2.13 – 4.85
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Heptane (mixed isomers)

Partition coefficient n-octanol/water (Log Pow)	4.66
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone	: Not classified
Fluorinated greenhouse gases	: No

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According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

SECTION 13 Disposal considerations

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose of this material and its container at hazardous or special waste collection point. Refer to all applicable national, international and local regulations or provisions. U.S. - RCRA (Resource Conservation Recovery Act) - D Waste- Characteristic Waste Codes. D001: IGNITABLE WASTE.
Additional information	: Do not re-use empty containers.
Ecological waste information	: Avoid release to the environment.
List of Hazardous Wastes Codes	: U.S. - RCRA (Resource Conservation Recovery Act) - D Waste- Characteristic Waste Codes. D001: IGNITABLE WASTE.

SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
UN1950	1950	1950
14.2. Proper Shipping Name		
Aerosols	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)		
2.1	2.1	2.1
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
	Dangerous for the environment: Yes Marine pollutant: Yes	
No supplementary information available		

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT	
UN-No. (DOT)	: UN1950
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 25 - Shade from radiant heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials
IMDG	
Special provision (IMDG)	: 63, 190, 277, 327, 344, 381, 959

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According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Limited quantities (IMDG)	: SP277
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P207, LP200
Packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES
EmS-No. (Spillage)	: S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)
Stowage category (IMDG)	: None
Stowage and handling (IMDG)	: SW1, SW22
Segregation (IMDG)	: SG69

IATA

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
ERG code (IATA)	: 10L

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Methyl alcohol	CAS-No. 67-56-1	10 – 30%
Toluene	CAS-No. 108-88-3	10 – 30%

Acetone (67-64-1)

CERCLA RQ	5000 lb
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Methyl alcohol (67-56-1)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	5000 lb
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Toluene (108-88-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens

Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

CERCLA RQ	1000 lb
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According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

15.2. International regulations

CANADA

Acetone (67-64-1)

Listed on the Canadian DSL (Domestic Substances List)

Methyl alcohol (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

Toluene (108-88-3)

Listed on the Canadian DSL (Domestic Substances List)

Heptane, branched, cyclic and linear (426260-76-6)

Listed on the Canadian DSL (Domestic Substances List)

Carbon dioxide (124-38-9)

Listed on the Canadian DSL (Domestic Substances List)

Heptane (mixed isomers) (142-82-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Acetone (67-64-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Methyl alcohol (67-56-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Toluene (108-88-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens
Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

Carbon dioxide (124-38-9)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Heptane (mixed isomers) (142-82-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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15.3. State regulations

 **WARNING:** This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
Acetone(67-64-1)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List
Methyl alcohol(67-56-1)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List
Toluene(108-88-3)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List
Carbon dioxide(124-38-9)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List
Heptane (mixed isomers)(142-82-5)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16 Other information

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Issue date : 8/13/2026

Full text of hazard classes and H-statements	
H223	Flammable aerosol
H225	Highly flammable liquid and vapor
H229	Pressurized container; may burst if heated
H280	Contains gas under pressure; may explode 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
H335	May cause respiratory 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
H400	Very toxic to aquatic life

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According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Full text of hazard classes and H-statements	
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
SIAS	May displace oxygen and cause rapid suffocation

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.