



# INDUSTRIAL CHEMICALS

C O R P O R A T I O N

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## Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date 14.05.2015

Revision: 14.05.2015

### SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- **1.1 Product identifier**
- **Trade name: Brake & Parts Cleaner- Non Chlorinated**
- **Article number:** 151822
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Brake and parts cleaner
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Industrial Chemicals Corporation  
4631 W. 58th Avenue  
Arvada, CO 80002  
Phone: (303) 427-2727
- **1.4 Emergency telephone number:**  
CHEMTREC  
1-800-424-9300 (US/Canada)  
+01 703-527-3887 (International)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H361d, H411.  
Classifications listed also are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).  
The following classifications are applicable only to the general GHS regulations and not the specific CLP regulation: H361.



Repr. 2 H361: Suspected of damaging fertility or the unborn child.



flame

Flam. Liq. 2

H225

Highly flammable liquid and vapour.

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skull and crossbones

Acute Tox. 3	H301	Toxic if swallowed.
Acute Tox. 3	H311	Toxic in contact with skin.
Acute Tox. 3	H331	Toxic if inhaled.



health hazard

Repr. 2	H361d	Suspected of damaging the unborn child. Route of exposure: Inhalative.
STOT SE 1	H370-H336	Causes damage to the central nervous system and optic nerve. May cause drowsiness or dizziness.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalative.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.



environment

Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.
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Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



T; Toxic

R23/24/25-39/23/24/25: Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.



Xn; Harmful

R48/20-63-65: Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed.



Xi; Irritant

R36: Irritating to eyes.



F; Highly flammable

R11: Highly flammable.



N; Dangerous for the environment

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R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

· **Additional information:**

There are no other hazards not otherwise classified that have been identified.

0 percent of the mixture consists of component(s) of unknown toxicity

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



This pictogram only applicable for EU regulations. Not for use in the United States (OSHA GHS).



GHS02 GHS06 GHS08 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

methanol

acetone

toluene

heptane

· **Hazard statements**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H361d, H411.

The following Hazard Statements are applicable only to the general GHS regulations and not the specific CLP regulation: H361.

H361: Suspected of damaging fertility or the unborn child.

H225 Highly flammable liquid and vapour.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child. Route of exposure: Inhalative.

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- H370-H336 Causes damage to the central nervous system and optic nerve. May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalative.
- H304 May be fatal if swallowed and enters airways.
- H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P260 Do not breathe mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection.
- P273 Avoid release to the environment.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.
- P362 Take off contaminated clothing and wash before reuse.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P330 Rinse mouth.
- P331 Do NOT induce vomiting.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Hazard description:**· **WHMIS-symbols:**

B2 - Flammable liquid

D1A - Very toxic material causing immediate and serious toxic effects

D2A - Very toxic material causing other toxic effects

· **NFPA ratings (scale 0 - 4)**

Health = 3

Fire = 3

Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	3	Health = *3
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

\* - Indicates a long term health hazard from repeated or prolonged exposures.

· **HMIS Long Term Health Hazard Substances**

108-88-3	toluene
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· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8	acetone Xi R36;  F R11 R66-67 ----- Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	50-100%
CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X	methanol T R23/24/25-39/23/24/25;  F R11 ----- Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370	25-50%
CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3	toluene Xn R48/20-63-65;  Xi R38;  F R11 R67 Repr. Cat. 3 ----- Flam. Liq. 2, H225 Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336	10-25%
CAS: 142-82-5 EINECS: 205-563-8 Index number: 601-008-00-2	heptane Xn R65;  Xi R38;  F R11;  N R50/53 R67 ----- Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; STOT SE 3, H336	2,5-10%

· **Additional information:**

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

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For the wording of the listed risk phrases refer to section 16.

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## SECTION 4: First aid measures

### · 4.1 Description of first aid measures

#### · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air.

#### · After inhalation:

Supply fresh air or oxygen; call for doctor.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of unconsciousness place patient stably in side position for transportation.

#### · After skin contact:

Immediately remove any clothing soiled by the product.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

#### · After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

#### · After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

A person vomiting while laying on their back should be turned onto their side.

### · 4.2 Most important symptoms and effects, both acute and delayed

Headache

Dizziness

Coughing

Acidosis

Blindness

Breathing difficulty

Irritant to skin and mucous membranes.

Irritant to eyes.

Gastric or intestinal disorders when ingested.

Nausea

Disorientation

#### · Hazards

Danger of impaired breathing.

Danger of convulsion.

Danger of disturbed cardiac rhythm.

Toxic if swallowed, in contact with skin or if inhaled.

Possible risk of irreversible effects.

### · 4.3 Indication of any immediate medical attention and special treatment needed

Contains methanol, toluene. Consult literature for specific antidotes.

Vapours may cause drowsiness and dizziness.

If swallowed or in case of vomiting, danger of entering the lungs.

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Medical supervision for at least 48 hours.  
If necessary oxygen respiration treatment.  
Later observation for pneumonia and pulmonary oedema.  
Monitor circulation, possible shock treatment.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
  - Alcohol resistant foam
  - Fire-extinguishing powder
  - Carbon dioxide
  - Water haze or fog
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
  - Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Do not inhale explosion gases or combustion gases.
  - Wear fully protective suit.
- **Additional information**
  - Eliminate all ignition sources if safe to do so.
  - Use large quantities of foam as it is partially destroyed by the product.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Use respiratory protective device against the effects of fumes/dust/aerosol.
  - Wear protective equipment. Keep unprotected persons away.
  - Ensure adequate ventilation
  - Keep away from ignition sources.
  - Protect from heat.
  - Isolate area and prevent access.
- **6.2 Environmental precautions:**
  - Do not allow to enter sewers/ surface or ground water.
  - Inform respective authorities in case of seepage into water course or sewage system.
  - Prevent from spreading (e.g. by damming-in or oil barriers).
- **6.3 Methods and material for containment and cleaning up:**
  - Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).
  - Dispose contaminated material as waste according to item 13.
  - Do not flush with water or aqueous cleansing agents
  - Send for recovery or disposal in suitable receptacles.
  - Used rags or other cleaning materials should be soaked with water and placed in a sealed container.
- **6.4 Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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## SECTION 7: Handling and storage

### · 7.1 Precautions for safe handling

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Rags / metal wools / cuttings / shavings and waste papers soaked with product must be placed in a sealed, metal container rated for flammable waste.

### · Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

Highly flammable liquid and vapour.

### · 7.2 Conditions for safe storage, including any incompatibilities

#### · Storage:

#### · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

#### · Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidising agents.

#### · Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep container tightly sealed.

### · 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

### · 8.1 Control parameters

#### · Ingredients with limit values that require monitoring at the workplace:

##### 67-64-1 acetone

IOELV (EU)	Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
PEL (USA)	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm
REL (USA)	Long-term value: 590 mg/m <sup>3</sup> , 250 ppm
TLV (USA)	Short-term value: (1782) NIC-1187 mg/m <sup>3</sup> , (750) NIC-500 ppm Long-term value: (1188) NIC-594 mg/m <sup>3</sup> , (500) NIC-250 ppm BEI
EL (Canada)	Short-term value: 500 ppm Long-term value: 250 ppm

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EV (Canada)	Short-term value: 750 ppm Long-term value: 500 ppm
<b>67-56-1 methanol</b>	
IOELV (EU)	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm Skin
PEL (USA)	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm
REL (USA)	Short-term value: 325 mg/m <sup>3</sup> , 250 ppm Long-term value: 260 mg/m <sup>3</sup> , 200 ppm Skin
TLV (USA)	Short-term value: 328 mg/m <sup>3</sup> , 250 ppm Long-term value: 262 mg/m <sup>3</sup> , 200 ppm Skin; BEI
EL (Canada)	Short-term value: 250 ppm Long-term value: 200 ppm Skin
EV (Canada)	Short-term value: 325 mg/m <sup>3</sup> , 250 ppm Long-term value: 260 mg/m <sup>3</sup> , 200 ppm Skin
<b>108-88-3 toluene</b>	
PEL (USA)	Long-term value: 200 ppm Ceiling limit: 300; 500* ppm *10-min peak per 8-hr shift
REL (USA)	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Long-term value: 75 mg/m <sup>3</sup> , 20 ppm BEI
EL (Canada)	Long-term value: 20 ppm R
EV (Canada)	Long-term value: 20 ppm
<b>142-82-5 heptane</b>	
IOELV (EU)	Long-term value: 2085 mg/m <sup>3</sup> , 500 ppm
PEL (USA)	Long-term value: 2000 mg/m <sup>3</sup> , 500 ppm
REL (USA)	Long-term value: 350 mg/m <sup>3</sup> , 85 ppm Ceiling limit: 1800* mg/m <sup>3</sup> , 440* ppm *15-min
TLV (USA)	Short-term value: 2050 mg/m <sup>3</sup> , 500 ppm Long-term value: 1640 mg/m <sup>3</sup> , 400 ppm
EL (Canada)	Short-term value: 500 ppm Long-term value: 400 ppm
EV (Canada)	Short-term value: 2,045 mg/m <sup>3</sup> , 500 ppm Long-term value: 1,635 mg/m <sup>3</sup> , 400 ppm

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.

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· **Ingredients with biological limit values:**

**67-64-1 acetone**

BEI (USA)	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
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**67-56-1 methanol**

BEI (USA)	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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**108-88-3 toluene**

BEI (USA)	0,02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0,03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0,3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Pregnant women should strictly avoid inhalation or skin contact.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

· **Respiratory protection:**

Suitable respiratory protective device recommended.

Use suitable respiratory protective device when high concentrations are present.

NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

· **Protection of hands:**



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses

- **Body protection:** Solvent resistant protective clothing

- **Limitation and supervision of exposure into the environment**

No further relevant information available.

- **Risk management measures**

See Section 7 for additional information.

No further relevant information available.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Liquid
Colour:	Colourless
Odour:	Solvent-like
Odour threshold:	Not determined.
pH-value:	Not determined.

- **Change in condition**

Melting point/Melting range: Not Determined.

Boiling point/Boiling range: 55 °C (131 °F)

- **Flash point:** 4 °C (39 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Auto/Self-ignition temperature:** Not determined.

- **Decomposition temperature:** Not determined.

- **Self-igniting:** Product is not self-igniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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- **Explosion limits:**
  - Lower:** 1,2 Vol %
  - Upper:** 44,0 Vol %
- **Vapour pressure at 20 °C (68 °F):** 233 hPa (175 mm Hg)
- **Density at 20 °C (68 °F):** 0,79 g/cm<sup>3</sup> (6,593 lbs/gal)
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Keep away from heat and direct sunlight.
- **10.3 Possibility of hazardous reactions**
  - Highly flammable liquid and vapour.
  - Reacts violently with oxidising agents.
  - Used empty containers may contain product gases which form explosive mixtures with air.
  - Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
  - Toxic fumes may be released if heated above the decomposition point.
- **10.4 Conditions to avoid**
  - Keep ignition sources away - Do not smoke.
  - Store away from oxidising agents.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
  - Carbon monoxide and carbon dioxide
  - Hydrocarbons

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**

### 67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
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Dermal	LD50	20000 mg/kg (rabbit)
<b>67-56-1 methanol</b>		
Oral	LD50	5628 mg/kg (rat)
Dermal	LD50	15800 mg/kg (rabbit)
Inhalative	LC50/4h	130,7 mg/l (RAT)
<b>108-88-3 toluene</b>		
Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4h	5320 mg/l (mouse)
<b>142-82-5 heptane</b>		
Oral	LD50	> 5000 mg/kg (rat) (Estimate)
Inhalative	LC50/4h	103 mg/l (rat)

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitisation:** No sensitising effects known.

· **Subacute to chronic toxicity:**

May be fatal if swallowed and enters airways.

Causes damage to the central nervous system and optic nerve.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Toxic

Irritant

Danger through skin adsorption.

Toxic and/or corrosive effects may be delayed up to 24 hours.

Suspected of damaging fertility or the unborn child. Route of exposure: Inhalative.

Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

· **Acute effects (acute toxicity, irritation and corrosivity):**

Toxic if swallowed, in contact with skin or if inhaled.

Vapours have narcotic effect.

· **Repeated dose toxicity:**

May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalative.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

Repr. 2

## SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:** Toxic for aquatic organisms

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

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- **Ecotoxicological effects:**

- **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

- **14.1 UN-Number**

- **DOT**

UN1993

Product is additionally classified as a MARINE POLLUTANT based on MARPOL and DOT rules. Labeling as a MARINE POLLUTANT is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) for a liquid and a maximum net mass greater than 400kg (882 pounds) for a solid.

- **ADR, IMDG, IATA**

UN1992

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· **14.2 UN proper shipping name**



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 1 L (0.3 gal).

· **DOT**

Flammable liquids, n.o.s. (Acetone, Methanol),  
MARINE POLLUTANT

· **ADR**

1992 FLAMMABLE LIQUID, TOXIC, N.O.S.  
(ACETONE, METHANOL), ENVIRONMENTALLY  
HAZARDOUS

· **IMDG**

FLAMMABLE LIQUID, TOXIC, N.O.S. (ACETONE,  
METHANOL), MARINE POLLUTANT

· **IATA**

Flammable liquid, toxic, n.o.s. (Acetone, Methanol)

· **14.3 Transport hazard class(es)**

· **DOT**



· **Class**

3 Flammable liquids.

· **Label**

3

· **ADR**



· **Class**

3 (FT1) Flammable liquids.

· **Label**

3+6.1

· **IMDG**



· **Class**

3 Flammable liquids.

· **Label**

3/6.1

· **IATA**



· **Class**

3 Flammable liquids.

· **Label**

3 (6.1)

· **14.4 Packing group**

· **DOT, ADR, IMDG, IATA**

II

· **14.5 Environmental hazards:**

Product contains environmentally hazardous  
substances: heptane

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- **Marine pollutant:** Yes
- **Special marking (ADR):** Symbol (fish and tree)
- **14.6 Special precautions for user:** Symbol (fish and tree)
- **Danger code (Kemler):** Warning: Flammable liquids.
- **EMS Number:** 336
- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** F-E,S-D
- **Transport/Additional information:** Not applicable.

- **ADR**
- **Limited quantities (LQ):** 1L
- **Excepted quantities (EQ):** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml
- **Transport category:** 2
- **Tunnel restriction code:** D/E

- **IMDG**
- **Limited quantities (LQ):** 1L
- **Excepted quantities (EQ):** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml
- **UN "Model Regulation":** UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S. (ACETONE, METHANOL), ENVIRONMENTALLY HAZARDOUS, 3 (6.1), II

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

67-56-1 | methanol

108-88-3 | toluene

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65 (California):**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

108-88-3 | toluene

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· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

67-56-1 methanol

108-88-3 toluene

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

67-64-1 acetone

I

108-88-3 toluene

II

142-82-5 heptane

D

· **IARC (International Agency for Research on Cancer)**

108-88-3 toluene

3

· **TLV (Threshold Limit Value established by ACGIH)**

67-64-1 acetone

A4

108-88-3 toluene

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

· **Canada**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

All ingredients are listed.

· **Other regulations, limitations and prohibitive regulations**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients are listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.  
H301 Toxic if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H311 Toxic in contact with skin.

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H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child. Route of exposure: Inhalative.
H370	Causes damage to the central nervous system and optic nerve.
H373	May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalative.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R36	Irritating to eyes.
R38	Irritating to skin.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 WHMIS: Workplace Hazardous Materials Information System (Canada)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 Flam. Liq. 2: Flammable liquids, Hazard Category 2  
 Acute Tox. 3: Acute toxicity, Hazard Category 3  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 Repr. 2: Reproductive toxicity, Hazard Category 2  
 STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1  
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2  
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

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· **Sources**

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