



## SAFETY DATA SHEET

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	<b>FAST REDUCER</b>
<b>Product Code</b>	<b>R-101</b>
<b>Recommended Use</b>	SOLVENT - FAST DRY 55°F - 65°F
<b>Restrictions</b>	FOR PROFESSIONAL USE ONLY
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Company name</b>	Liquid Concepts
<b>Address</b>	200 Cornerstone Rd. Alexander, AR 72002
<b>Telephone</b>	501.455.5500
<b>Website</b>	<a href="http://www.liquidconcepts.com">www.liquidconcepts.com</a>
<b>Emergency phone number</b>	EMERGENCY 24 Hrs. 800-424-9300 ChemTrec

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids	: Category 2
Skin irritation	: Category 2
Eye irritation	: Category 2A
Germ cell mutagenicity	: Category 1B
Carcinogenicity	: Category 2
Reproductive toxicity	: Category 2
Specific target organ toxicity - single exposure	: Category 3 (Central nervous system)
Specific target organ toxicity - repeated exposure (Inhalation)	: Category 2 (Auditory system, Eyes)
Aspiration hazard	: Category 1

#### GHS Label element

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Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H340 May cause genetic defects.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs (Auditory system, Eyes) through prolonged or repeated exposure if inhaled.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.  
P281 Use personal protective equipment as required.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P312 IF INHALED: 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.

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
 P331 Do NOT induce vomiting.  
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P362 Take off contaminated clothing and wash before reuse.  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 P403 + P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Potential Health Effects**

**Carcinogenicity:**

**IARC**

Group 2B: Possibly carcinogenic to humans

64742-49-0 Naphtha (pet), hydrotreated  
It

64742-89-8 Solvent naphtha (pet), It  
aliph.

**ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Emergency Overview**

Appearance	liquid
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Colour	clear, colourless
Odour	characteristic
Hazard Summary	No information available.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

CAS-No.	Chemical Name	Concentration (%)
67-64-1	Acetone	30 - 50
108-88-3	Toluene	20 - 30
64742-49-0	Naphtha (pet), hydrotreated It	0 - 20
64742-89-8	Solvent naphtha (pet), It aliph.	0 - 20
68410-97-9	Distillates, pet, It dist hydrotreat process, low-boil	0 - 20
123-86-4	n-Butyl acetate	10 - 20
142-82-5	Heptane	0.1 - 1

**Special Notes:** : Functionally equivalent petroleum streams may be found in this preparation at varying concentrations.

### SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.  
If unconscious place in recovery position and seek medical advice.

In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.

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If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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## **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

Specific extinguishing methods : Use a water spray to cool fully closed containers.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

### **NFPA Flammable and Combustible Liquids Classification:**

Flammable Liquid Class IB

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and : Use personal protective equipment.  
Ensure adequate ventilation.

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emergency procedures	Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions	: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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## **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling	: Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	: No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
67-64-1	Acetone	TWA	500 ppm	ACGIH
		STEL	750 ppm	ACGIH
		TWA	250 ppm 590 mg/m <sup>3</sup>	NIOSH REL
		TWA	1,000 ppm 2,400 mg/m <sup>3</sup>	OSHA Z-1
		TWA	750 ppm 1,800 mg/m <sup>3</sup>	OSHA P0
		STEL	1,000 ppm 2,400 mg/m <sup>3</sup>	OSHA P0
108-88-3	Toluene	TWA	20 ppm	ACGIH
		TWA	100 ppm 375 mg/m <sup>3</sup>	NIOSH REL
		ST	150 ppm 560 mg/m <sup>3</sup>	NIOSH REL
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm	OSHA Z-2
		TWA	100 ppm 375 mg/m <sup>3</sup>	OSHA P0
		STEL	150 ppm 560 mg/m <sup>3</sup>	OSHA P0
64742-49-0	Naphtha (pet), hydrotreated lt	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA	400 ppm 1,600 mg/m <sup>3</sup>	OSHA P0
64742-89-8	Solvent naphtha (pet), lt aliph.	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA	400 ppm 1,600 mg/m <sup>3</sup>	OSHA P0
123-86-4	n-Butyl acetate	TWA	150 ppm	ACGIH
		STEL	200 ppm	ACGIH
		ST	200 ppm 950 mg/m <sup>3</sup>	NIOSH REL
		TWA	150 ppm 710 mg/m <sup>3</sup>	NIOSH REL
		TWA	150 ppm 710 mg/m <sup>3</sup>	OSHA Z-1
		TWA	150 ppm 710 mg/m <sup>3</sup>	OSHA P0

		STEL	200 ppm 950 mg/m <sup>3</sup>	OSHA P0
142-82-5	Heptane	TWA	85 ppm 350 mg/m <sup>3</sup>	NIOSH REL
		C	440 ppm 1,800 mg/m <sup>3</sup>	NIOSH REL
		TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA	400 ppm 1,600 mg/m <sup>3</sup>	OSHA P0
		STEL	500 ppm 2,000 mg/m <sup>3</sup>	OSHA P0

### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Acetone	67-64-1	Acetone	Urine	End of shift (As soon as possible after exposure ceases)	50 mg/l	ACGIH BEI
Toluene	108-88-3	Toluene	In blood	Prior to last shift of work-week	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ACGIH BEI
		o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g Creatinine	ACGIH BEI

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### **Personal protective equipment**

Respiratory protection	: No personal respiratory protective equipment normally required. In the case of vapour formation use a respirator with an approved filter.
Hand protection Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	: Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	: impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Colour	: clear, colourless
Odour	: characteristic
Odour Threshold	: No data available
pH	: No data available
Freezing Point	: No data available
Boiling Point (Boiling point/boiling range)	: 56 - 140 °C (133 - 284 °F) (1013 hPa) Calculated Phase Transition Liquid/Gas
Flash point	: < -18 °C (-0.40 °F)
Evaporation rate	: 1 Ethyl Ether
Flammability (solid, gas)	: No data available

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Burning rate	: No data available
Upper explosion limit	: 12.8 %(V) Calculated Explosive Limit
Lower explosion limit	: 1.27 %(V) Calculated Explosive Limit
Vapour pressure	: 231 mmHg @ 25 °C (77 °F) Calculated Vapor Pressure
Relative vapour density	: > 1 (Air = 1.0)
Relative density	: 0.801 @ 20 °C (68 °F)
Density	: 0.801 g/cm <sup>3</sup> @ 20 °C (68 °F)
Bulk density	: No data available
Water solubility	: No data available
Solubility in other sol- vents	: No data available
Partition coefficient: n- octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available

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## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Product will not undergo hazardous polymerization. Vapours may form explosive mixture with air.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources. Extremes of temperature and direct sunlight.
Incompatible materials	: Acids alkalis

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Amines  
Ammonia  
halogens  
nitrates  
organic absorbents such as sawdust, peat moss,  
ground corn cobs, etc.  
Peroxides  
Reducing agents  
Strong oxidizing agents  
Bases  
metal salts

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### **Product:**

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method

#### **Components:**

##### **67-64-1:**

Acute oral toxicity : LD50 (rat): 5,800 mg/kg

Acute inhalation toxicity : LC50 (rat): 76.0 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD50 : > 7,426 mg/kg

##### **108-88-3:**

Acute oral toxicity : LD50 (rat, male): > 5,580 mg/kg

Acute inhalation toxicity : LC50 (rat, male and female): 28.1 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (rabbit): > 5,000 mg/kg

##### **64742-49-0:**

Acute oral toxicity : LD50 (rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : Remarks: No data available

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Acute dermal toxicity : LD50 (rabbit, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

**64742-89-8:**

Acute oral toxicity : LD50 (rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (rabbit, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

**68410-97-9:**

Acute oral toxicity : LD50 (rat): > 5,000 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (rabbit): > 2,000 mg/kg

**123-86-4:**

Acute oral toxicity : LD50 (rat): > 5,000 mg/kg  
Method: OECD Test Guideline 423  
GLP: no

Acute inhalation toxicity : LC50 (rat, male and female): > 21 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: yes

Acute dermal toxicity : LD50 (rabbit, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

**142-82-5:**

Acute oral toxicity : LD50 (rat, male and female): 5,000 mg/kg  
Method: OECD Test Guideline 401  
Symptoms: Salivation  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (rat, male and female): 73.5 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

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Acute dermal toxicity : LD50 (rabbit, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

### **Skin corrosion/irritation**

#### **Product:**

Remarks: Irritating to skin.

#### **Components:**

##### **67-64-1:**

Species: rabbit  
Exposure time: 24 h  
Method: In vivo  
Result: Mild skin irritation

##### **108-88-3:**

Species: rabbit  
Exposure time: 4 h  
Result: Irritating to skin.

##### **64742-49-0:**

Species: rabbit  
Result: Irritating to skin.

##### **64742-89-8:**

Species: rabbit  
Exposure time: 4 h  
Result: Irritating to skin.

##### **68410-97-9:**

Species: rabbit  
Result: Irritating to skin.

##### **123-86-4:**

Species: rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: no

##### **142-82-5:**

Species: rabbit  
Exposure time: 24 h  
Method: OECD Test Guideline 404  
Result: Irritating to skin.  
GLP: yes  
Remarks: Based on a similar product formulation.

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## **Serious eye damage/eye irritation**

### **Product:**

Remarks: Irritating to eyes.

### **Components:**

#### **67-64-1:**

Species: rabbit

Result: Irritating to eyes.

Exposure time: 24 h

#### **108-88-3:**

Species: rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

#### **64742-49-0:**

Species: rabbit

Result: Irritating to eyes.

#### **64742-89-8:**

Species: rabbit

Result: Irritating to eyes.

#### **68410-97-9:**

Species: rabbit

Result: Irritating to eyes.

#### **123-86-4:**

Species: rabbit

Result: No eye irritation

GLP: yes

#### **142-82-5:**

Species: rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

GLP: yes

Remarks: Information given is based on data obtained from similar substances.

## **Respiratory or skin sensitisation**

### **Components:**

#### **67-64-1:**

Test Type: Maximization test

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

#### **108-88-3:**

Test Type: Maximisation Test (GPMT)

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Species: guinea pig  
Result: Did not cause sensitisation on laboratory animals.  
GLP: yes

**64742-49-0:**

Test Type: Buehler Test  
Species: guinea pig  
Result: Did not cause sensitisation on laboratory animals.

**64742-89-8:**

Test Type: Buehler Test  
Species: guinea pig  
Result: Did not cause sensitisation on laboratory animals.

**123-86-4:**

Species: guinea pig  
Result: Did not cause sensitisation on laboratory animals.

**142-82-5:**

Test Type: Maximization test  
Species: guinea pig  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitisation.  
Remarks: Based on a similar product formulation.

**Germ cell mutagenicity**

**Components:**

**67-64-1:**

Genotoxicity in vitro : Test Type: Mammalian cell gene mutation assay  
Test species: Mouse lymphoma cells  
Metabolic activation: Without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

: Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

: Test Type: Chromosome aberration test in vitro  
Test species: Chinese hamster ovary (CHO)  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: mouse

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	Application Route: Oral Exposure time: 13 wk Dose: 5,000, 10,000, 20,000 ppm Result: negative
Germ cell mutagenicity-Assessment	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
<b>108-88-3:</b>	
Genotoxicity in vitro	: Test Type: Mammalian cell gene mutation assay Test species: Mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
Genotoxicity in vivo	: Test Type: Dominant lethal assay Test species: mouse (male) Application Route: inhalation (vapour) Exposure time: 6 h/d, 5 d/wk for 8 wks Dose: 0, 100, 400 ppm Method: OECD Test Guideline 478 Result: negative
Germ cell mutagenicity-Assessment	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
<b>64742-49-0:</b>	
Germ cell mutagenicity-Assessment	: Mutagenicity classification not possible from current data
<b>64742-89-8:</b>	
Germ cell mutagenicity-Assessment	: Mutagenicity classification not possible from current data
<b>68410-97-9:</b>	
Genotoxicity in vitro	: Test Type: Mammalian cell gene mutation assay Test species: mouse lymphoma cells Result: positive
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Test species: mouse Method: OECD Test Guideline 474 Result: positive
Germ cell mutagenicity-Assessment	: Positive result(s) from in vivo heritable germ cell mutagenicity tests in mammals
<b>123-86-4:</b>	
Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro

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Test species: Chinese hamster lung fibroblasts  
Metabolic activation: Without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: No data available

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: mouse (male and female)  
Application Route: Oral  
Dose: 500, 1000, 2000 mg/kg bw  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes  
Test substance: Information given is based on data obtained from similar substances.

Germ cell mutagenicity-  
Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**142-82-5:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test species: Rat liver  
Metabolic activation: Without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

: Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Germ cell mutagenicity-  
Assessment : Did not show mutagenic effects in animal experiments.

**Carcinogenicity**

**Components:**

**67-64-1:**

Species: mouse, (female)  
Application Route: Dermal  
Exposure time: 365 d (90%) or 424 d (100%)  
Dose: 0.1ml 90(71mg) or 100% (79mg)  
Frequency of Treatment: 3 times per wk  
NOAEL: 79

Result: did not display carcinogenic properties

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

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**108-88-3:**

Species: rat, (male and female)  
Application Route: inhalation (vapour)  
Exposure time: 103 wks  
Dose: 0, 600, 1200 ppm  
Frequency of Treatment: 6.5 h/d, 5 d/wk  
NOAEL: No observed adverse effect level: 1,200 ppm

Method: OECD Test Guideline 453  
Result: did not display carcinogenic properties  
Symptoms: Erosion of nasal epithelium  
GLP: yes

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**64742-49-0:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**64742-89-8:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**68410-97-9:**

Species: mouse  
NOAEL: 50 mg/kg bw/day

Method: OECD Test Guideline 451  
Result: evidence of carcinogenic activity

Carcinogenicity - Assessment : Possible human carcinogen

**123-86-4:**

Remarks: This information is not available.

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

**142-82-5:**

Remarks: This information is not available.

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

**Reproductive toxicity**

**Components:**

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**67-64-1:**

Effects on fertility : Species: rat, male  
Application Route: oral  
Dose: 0, 5000, 10000 mg/L  
Frequency of Treatment: 7 days/week  
General Toxicity - Parent: LOAEL: 10,000  
Fertility: 10,000

Effects on foetal development : Species: rat  
Application Route: Inhalation  
Dose: 0, 440, 2200, 11000 ppm  
Frequency of Treatment: 7 days/week  
General Toxicity Maternal: NOAEC: 2,200 ppm  
Teratogenicity: NOAEC: 11,000 ppm  
Embryo-foetal toxicity.: NOAEC: 2,200 ppm  
Method: OECD Test Guideline 414  
Result: No teratogenic potential.  
GLP: No data available

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments.

**108-88-3:**

Effects on fertility : Test Type: Two-generation study  
Species: rat, male and female  
Application Route: Inhalation  
Dose: 0, 100, 500, 2000 ppm  
Frequency of Treatment: 7 days/week  
General Toxicity - Parent: NOAEC: 500 ppm  
General Toxicity F1: NOAEC: 500 ppm  
Fertility: NOAEC: 2,000 ppm  
Symptoms: Reduced maternal body weight gain. Reduced offspring weight gain.  
Method: OECD Test Guideline 416  
Result: Animal testing did not show any effects on fertility.  
GLP: yes

Test Type: Fertility  
Species: rat, male and female  
Application Route: inhalation (vapour)  
Dose: 0, 600, 1200 ppm  
Frequency of Treatment: 7 days/week  
General Toxicity - Parent: NOAEC: 600 ppm  
Symptoms: Decreased sperm count  
Result: Animal testing did not show any effects on fertility.

Effects on foetal development : Species: rat

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opment	Application Route: inhalation (vapour) Dose: 0, 250, 750, 1500, 3000 ppm Duration of Single Treatment: 10 d Frequency of Treatment: 6 hr/day General Toxicity Maternal: NOAEC: 750 ppm Developmental Toxicity: NOAEC: 750 ppm Symptoms: Maternal toxicity, Reduced body weight, Skeletal malformations. GLP: yes
Reproductive toxicity - Assessment	: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.
<b>64742-49-0:</b> Reproductive toxicity - Assessment	: Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.
<b>64742-89-8:</b> Reproductive toxicity - Assessment	: Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.
<b>68410-97-9:</b> Reproductive toxicity - Assessment	: Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.
<b>123-86-4:</b> Effects on fertility	: Species: rat, male and female Application Route: Inhalation Dose: 0, 750, 1500, 2000 ppm Duration of Single Treatment: 6 h Frequency of Treatment: 7 days/week General Toxicity - Parent: NOAEC: 750 ppm General Toxicity F1: NOAEC: 750 ppm Fertility: NOAEC: 2,000 ppm Early Embryonic Development: NOAEC: 750 ppm Symptoms: Effect on reproduction capacity. Method: OECD Test Guideline 416 GLP: yes
Effects on foetal development	: Species: rat, male and female Application Route: vapour Dose: 500, 1500, 3000 ppm Duration of Single Treatment: 6 h Frequency of Treatment: 5 days/week GLP: yes
Reproductive toxicity -	: Fertility classification not possible from current data.

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Assessment Embryotoxicity classification not possible from current data.

**142-82-5:**

Effects on fertility : Test Type: Two-generation study  
Species: rat, male and female  
Application Route: vapour  
Dose: 0, 900, 3000, 9000 ppm  
Frequency of Treatment: 5 days/week  
General Toxicity - Parent: NOAEC: 3,000 ppm  
General Toxicity F1: NOAEC: 3,000 ppm  
Fertility: NOAEC: 9,000 ppm  
Symptoms: Reduced maternal body weight gain. Reduced offspring weight gain.  
Method: OECD Test Guideline 416  
Result: No reproductive effects.  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

Effects on foetal development : Species: mouse  
Application Route: inhalation (vapour)  
Dose: 0, 900, 3000, 9000 ppm  
Duration of Single Treatment: 10 d  
Frequency of Treatment: 6 hr/day  
General Toxicity Maternal: NOAEC: 900 ppm  
Developmental Toxicity: NOAEC: 3,000 ppm  
Symptoms: Skeletal malformations.  
Method: OECD Test Guideline 414  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.  
Embryotoxicity classification not possible from current data.

**STOT - single exposure**

**Product:**No data available

**Components:**

67-64-1:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, cate-	

		gory 3 with narcotic effects.	
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108-88-3:

<b>Exposure routes:</b>	<b>Target Organs:</b>	<b>Assessment:</b>	<b>Remarks:</b>
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	

64742-49-0:

<b>Exposure routes:</b>	<b>Target Organs:</b>	<b>Assessment:</b>	<b>Remarks:</b>
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	

64742-89-8: No data available

68410-97-9:

<b>Exposure routes:</b>	<b>Target Organs:</b>	<b>Assessment:</b>	<b>Remarks:</b>
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	

123-86-4:

<b>Exposure routes:</b>	<b>Target Organs:</b>	<b>Assessment:</b>	<b>Remarks:</b>
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or	

		mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	
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142-82-5:

<b>Exposure routes:</b>	<b>Target Organs:</b>	<b>Assessment:</b>	<b>Remarks:</b>
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	

**STOT - repeated exposure**

**Product:**No data available

**Components:**

**67-64-1:**No data available

**108-88-3:**

<b>Exposure routes:</b>	<b>Target Organs:</b>	<b>Assessment:</b>	<b>Remarks:</b>
Inhalation	Auditory system, Eyes	May cause damage to organs through prolonged or repeated exposure., The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.	

**64742-49-0:**No data available

**64742-89-8:**No data available

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**68410-97-9:**No data available

**123-86-4:**No data available

**142-82-5:**No data available

**Repeated dose toxicity**

**Components:**

**67-64-1:**

Species: mouse, male  
NOAEL: 20000  
Application Route: Oral  
Exposure time: 13 wk  
Number of exposures: daily  
Dose: 1250, 2500, 5000, 10000, 20000  
Method: OECD Test Guideline 408  
GLP: No data available

Species: mouse, female  
NOAEL: 20000  
LOAEL: 50000  
Application Route: Oral  
Exposure time: 13 wk  
Number of exposures: daily  
Dose: 2500, 5000, 10000, 20000, 5000  
Method: OECD Test Guideline 408  
GLP: No data available

Repeated dose toxicity - : Causes mild skin irritation., Causes serious eye irritation.  
Assessment tion.

**108-88-3:**

Species: rat, male and female  
NOAEL: 300  
Application Route: inhalation (vapour)  
Exposure time: 6, 12, or 18 mths  
Number of exposures: 6 h/d, 5 d/wk  
Dose: 0, 30, 100, 300 ppm  
Method: OECD Test Guideline 453

Repeated dose toxicity - : Causes skin irritation.  
Assessment

**64742-89-8:**

Species: rat, male and female

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NOAEL: 1402  
Application Route: inhalation (vapour)  
Test atmosphere: vapour  
Exposure time: 13 weeks  
Number of exposures: 6 hours/day, 5 days/week  
Dose: 322, 1402, 9869 mg/m<sup>3</sup>  
GLP: yes  
Target Organs: Kidney  
Symptoms: Nasal and ocular discharge

**123-86-4:**

Species: rat, male and female  
NOAEL: 500  
Application Route: inhalation (vapour)  
Exposure time: 13 wk  
Number of exposures: 6 h/d, 5d/wk  
Dose: 500, 1500, 3000 ppm  
GLP: yes  
Symptoms: oral or nasal discharge

**142-82-5:**

Species: rat, male  
NOAEL: 12470 mg/m<sup>3</sup>  
Application Route: inhalation (vapour)  
Exposure time: 16 wks  
Number of exposures: 12 h/d, 7 d/wk  
Dose: 0, 12470 mg/3

Repeated dose toxicity - : Causes skin irritation.  
Assessment

**Aspiration toxicity**

**Components:**

**108-88-3:**

Aspiration Toxicity - Category 1

**64742-49-0:**

May be fatal if swallowed and enters airways.

**64742-89-8:**

May be fatal if swallowed and enters airways.

**68410-97-9:**

May be fatal if swallowed and enters airways.

**142-82-5:**

Aspiration Toxicity - Category 1

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## Further information

### **Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### **Components:**

##### **67-64-1:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 6,100 mg/l  
Exposure time: 48 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 7,630 mg/l  
Exposure time: 48 h  
Test substance: Acetone
- Toxicity to algae : Remarks: No data available

##### **108-88-3:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.5 mg/l  
Exposure time: 96 h  
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia): 3.78 mg/l  
Exposure time: 48 h  
Test Type: Renewal
- Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 134 mg/l  
Exposure time: 3 h  
Test Type: static test
- Toxicity to bacteria : IC50 (Bacteria): 84 mg/l  
Exposure time: 24 h  
Test Type: Static
- Ecotoxicology Assessment  
Acute aquatic toxicity : Toxic to aquatic life.
- Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.
-

**64742-49-0:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4.5 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 3.71 mg/l  
Exposure time: 96 h

Ecotoxicology Assessment  
Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**64742-89-8:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 8.2 mg/l  
Exposure time: 96 h  
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4.5 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Analytical monitoring: yes

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 3.7 mg/l  
Exposure time: 96 h  
Test Type: static test

Ecotoxicology Assessment  
Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**68410-97-9:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 8.2 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4.5 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 3.1 mg/l

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Exposure time: 72 h  
Method: OECD Test Guideline 201

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**123-86-4:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 18 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 44 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 674.7 mg/l  
End point: Growth rate  
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 23 mg/l  
Exposure time: 21 d

Toxicity to bacteria : EC 50 (Tetrahymena pyriformis (Ciliate)): 356 mg/l  
Exposure time: 40 h  
Test Type: Static

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

**142-82-5:**

Toxicity to fish : LC50 (Carassius auratus (goldfish)): 4 mg/l  
Exposure time: 24 h  
Remarks: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.5 mg/l  
Exposure time: 48 h  
Test Type: static test  
Remarks: Very toxic to aquatic organisms.

Toxicity to algae : Remarks: No data available

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Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### **Persistence and degradability**

#### **Components:**

##### **67-64-1:**

Biodegradability : Remarks: Readily biodegradable

##### **108-88-3:**

Biodegradability : Inoculum: Sewage  
Biodegradation: 100 %  
Remarks: Readily biodegradable

##### **64742-49-0:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 20 mg/l  
Biodegradation: 74.30 %  
Exposure time: 56 d  
GLP: yes  
Remarks: Inherently biodegradable.

##### **64742-89-8:**

Biodegradability : Concentration: 49.2 mg/l  
Result: Readily biodegradable.  
Biodegradation: 77 %  
Testing period: 2 d  
Exposure time: 28 d  
GLP: yes

##### **123-86-4:**

Biodegradability : Biodegradation: 83 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

Chemical Oxygen Demand (COD) : 0.00169 mg/g

BOD/COD : BOD/COD: 72 %

Theoretical Oxygen Demand (ThOD) : 0.0022 mg/g

##### **142-82-5:**

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Biodegradability : Primary biodegradation  
Inoculum: activated sludge  
Concentration: 100 mg/l  
Biodegradation: 100 %  
Testing period: 2 d  
Exposure time: 25 d  
Remarks: Readily biodegradable

### **Bioaccumulative potential**

#### **Components:**

##### **67-64-1:**

Partition coefficient: n- : log Pow: -0.24  
octanol/water

##### **108-88-3:**

Partition coefficient: n- : log Pow: 2.73  
octanol/water

##### **64742-49-0:**

Partition coefficient: n- : Remarks: No data available  
octanol/water

##### **64742-89-8:**

Partition coefficient: n- : log Pow: 2.13 - 4.85 (25 °C)  
octanol/water

##### **123-86-4:**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 15

Partition coefficient: n- : log Pow: 1.82  
octanol/water

### **Mobility in soil**

No data available

### **Other adverse effects**

No data available

#### **Product:**

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological in- : An environmental hazard cannot be excluded in the

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formation

event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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## SECTION 14. TRANSPORT INFORMATION

**IATA (International Air Transport Association):** UN1263, PAINT RELATED MATERIAL, 3, II, Flash Point: -18 °C(-0.40 °F)

**IMDG (International Maritime Dangerous Goods):** UN1263, PAINT RELATED MATERIAL, 3, II

**DOT (Department of Transportation):** UN1263, PAINT RELATED MATERIAL, 3, II

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## SECTION 15. REGULATORY INFORMATION

**OSHA Hazards** : Flammable liquid, Carcinogen, Moderate skin irritant, Moderate eye irritant, Teratogen, Reproductive hazard, Mutagen, Aspiration hazard

**WHMIS Classification** : B2: Flammable liquid  
D2A: Very Toxic Material Causing Other Toxic Effects  
D2B: Toxic Material Causing Other Toxic Effects

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No.	Component	Calculated product
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		RQ (lbs)	RQ (lbs)
Toluene	108-88-3	1000	4609

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 311/312 Hazards

: Fire Hazard  
Chronic Health Hazard  
Acute Health Hazard

### Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

108-88-3	Toluene	21.6945 %
71-43-2	Benzene	0.0421 %
100-41-4	Ethylbenzene	0.0396 %
110-54-3	Hexane	0.0035 %
67-56-1	Methanol	0.003 %
91-20-3	Naphthalene	0.0003 %
98-82-8	Cumene	0.0001 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

67-64-1	Acetone	49.3264 %
108-88-3	Toluene	21.6945 %
123-86-4	n-Butyl acetate	11.003 %
110-82-7	Cyclohexane	0.4498 %
71-43-2	Benzene	0.0421 %
100-41-4	Ethylbenzene	0.0396 %
1330-20-7	Mixed xylenes	0.0233 %
67-56-1	Methanol	0.003 %
98-82-8	Cumene	0.0001 %

### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

108-88-3	Toluene	21.6945 %
123-86-4	n-Butyl acetate	11.003 %
110-82-7	Cyclohexane	0.4498 %
71-43-2	Benzene	0.0421 %
100-41-4	Ethylbenzene	0.0396 %
1330-20-7	Mixed xylenes	0.0233 %
91-20-3	Naphthalene	0.0003 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

108-88-3	Toluene	21.6945 %
123-86-4	n-Butyl acetate	11.003 %
110-82-7	Cyclohexane	0.4498 %
71-43-2	Benzene	0.0421 %

100-41-4	Ethylbenzene	0.0396 %
1330-20-7	Mixed xylenes	0.0233 %
91-20-3	Naphthalene	0.0003 %

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

108-88-3	Toluene	21.6945 %
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### US State Regulations

#### Massachusetts Right To Know

67-64-1	Acetone	30 - 50 %
108-88-3	Toluene	20 - 30 %
123-86-4	n-Butyl acetate	10 - 20 %
71-43-2	Benzene	0 - 0.1 %

#### Pennsylvania Right To Know

67-64-1	Acetone	30 - 50 %
108-88-3	Toluene	20 - 30 %
64742-49-0	Naphtha (pet), hydrotreated It	0 - 20 %
64742-89-8	Solvent naphtha (pet), It aliph.	0 - 20 %
68410-97-9	Distillates, pet, It dist hydrotreat process, low-boil	0 - 20 %
123-86-4	n-Butyl acetate	10 - 20 %
110-82-7	Cyclohexane	0.1 - 1 %
71-43-2	Benzene	0 - 0.1 %
100-41-4	Ethylbenzene	0 - 0.1 %
1330-20-7	Mixed xylenes	0 - 0.1 %

#### New Jersey Right To Know

67-64-1	Acetone	30 - 50 %
108-88-3	Toluene	20 - 30 %
64742-49-0	Naphtha (pet), hydrotreated It	0 - 20 %
64742-89-8	Solvent naphtha (pet), It aliph.	0 - 20 %
68410-97-9	Distillates, pet, It dist hydrotreat process, low-boil	0 - 20 %
123-86-4	n-Butyl acetate	10 - 20 %

#### California Prop 65

	WARNING! This product contains a chemical known to the State of California to cause cancer.
71-43-2	Benzene
100-41-4	Ethylbenzene
91-20-3	Naphthalene
98-82-8	Cumene
	WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
108-88-3	Toluene
71-43-2	Benzene
67-56-1	Methanol

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**The components of this product are reported in the following inventories:**

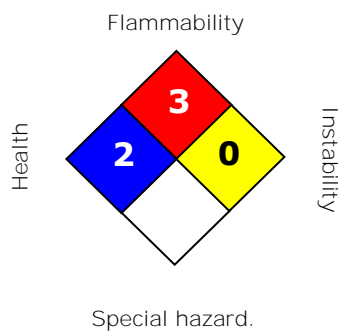
<b>Switzerland. New notified substances and declared preparations</b>	:	y (positive listing) (The formulation contains substances listed on the Swiss Inventory)
<b>United States TSCA Inventory</b>	:	y (positive listing) (On TSCA Inventory)
<b>Canadian Domestic Substances List (DSL)</b>	:	y (positive listing) (All components of this product are on the Canadian DSL.)
<b>Australia Inventory of Chemical Substances (AICS)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>New Zealand. Inventory of Chemical Substances</b>	:	n (Negative listing) (Not in compliance with the inventory)
<b>Japan. ENCS - Existing and New Chemical Substances Inventory</b>	:	n (Negative listing) (Not in compliance with the inventory)
<b>Japan. ISHL - Inventory of Chemical Substances (METI)</b>	:	n (Negative listing) (Not in compliance with the inventory)
<b>Korea. Korean Existing Chemicals Inventory (KECI)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>China. Inventory of Existing Chemical Substances in China (IECSC)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)

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## SECTION 16. OTHER INFORMATION

VERSION 3.0  
 REVISION DATE 10/20/2016

### NFPA:



### HMIS III:

<b>HEALTH</b>	<b>2*</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

**Legacy MSDS:** R0365914

**Material number:**  
 159793,

<b>Key or legend to abbreviations and acronyms used in the safety data sheet</b>			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals

EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
> =	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
< =	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50			Lethal Concentration 50%