

# Safety Data Sheet

## ALT-0370 Acrylic Lacquer Thinner Medium

Revision Date: 08/11/2015

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Number:** ALT-0370  
**Product Name:** Acrylic Lacquer Thinner Medium  
**Product Use Description:** Industrial chemical

#### Manufacturer Information

Axis  
PO 80  
Orange City, IA 51041  
United States of America

**Emergency telephone number:** CHEMTREC 800.424.9300

**Additional Information:** SDS Requests: 1-712-737-4993

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### SECTION 2. HAZARDS IDENTIFICATION


#### GHS Classification

Flammable liquids : Category 2  
Acute toxicity (Oral) : Category 4  
Acute toxicity (Inhalation) : Category 4  
Acute toxicity (Dermal) : Category 4  
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 1 (Eyes, Central nervous system)

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|   |  |
|---|--|
| 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   |
| <b>GHS Label element</b>  |  |
| Hazard pictograms   | :    |
| Signal word   | : Danger   |
| Hazard statements   | : H225 Highly flammable liquid and vapour.<br>H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled<br>H304 May be fatal if swallowed and enters airways.<br>H315 Causes skin irritation.<br>H319 Causes serious eye irritation.<br>H336 May cause drowsiness or dizziness.<br>H340 May cause genetic defects.<br>H351 Suspected of causing cancer.<br>H361 Suspected of damaging fertility or the unborn child.<br>H370 Causes damage to organs (Eyes, Central nervous system).<br>H373 May cause damage to organs (Auditory system, Eyes) through prolonged or repeated exposure if inhaled. |
| Precautionary statements  | : <b>Prevention:</b><br>P201 Obtain special instructions before use.<br>P202 Do not handle until all safety precautions have been read and understood.<br>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P233 Keep container tightly closed.<br>P240 Ground/bond container and receiving equipment.<br>P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.<br>P242 Use only non-sparking tools.<br>P243 Take precautionary measures against static discharge.<br>P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.               |

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P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ 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.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.  
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.

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**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                    |
| Colour         | clear, colorless          |
| Hazard Summary | No information available. |

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

| CAS-No.    | Chemical Name  | Concentration (%) |
|------------|--|-------------------|
| 108-88-3   | Toluene  | 30 - 50           |
| 67-64-1    | Acetone  | 10 - 20           |
| 67-56-1    | Methanol   | 10 - 20           |
| 64742-49-0 | Naphtha (pet), hydrotreated lt                         | 0 - 20            |
| 64742-89-8 | Solvent naphtha (pet), lt aliph.                       | 0 - 20            |
| 68410-97-9 | Distillates, pet, lt dist hydrotreat process, low-boil | 0 - 20            |
| 111-76-2   | 2-Butoxy ethanol                                       | 1 - 5             |
| 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.

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|                         |  |
|-------------------------|--|
|                         | Symptoms of poisoning may appear several hours later.<br>Do not leave the victim unattended.   |
| If inhaled              | : Consult a physician after significant exposure.<br>If unconscious place in recovery position and seek medical advice.  |
| In case of skin contact | : If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.   |
| In case of eye contact  | : Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.  |
| If swallowed            | : Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |

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#### SECTION 5. FIREFIGHTING MEASURES

|                                      |  |
|--------------------------------------|--|
| Suitable extinguishing media         | : Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>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.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regu- |

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lations.

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 emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapors accumulating to form explosive concentrations. Vapors 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 vapors/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 pres-

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sure.

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.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Components with workplace control parameters

| CAS-No.  | Components | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis     |
|----------|------------|-------------------------------|--|-----------|
| 108-88-3 | Toluene    | TWA                           | 20 ppm   | ACGIH     |
|          |            | TWA                           | 100 ppm<br>375 mg/m <sup>3</sup>               | NIOSH REL |
|          |            | ST                            | 150 ppm<br>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<br>375 mg/m <sup>3</sup>               | OSHA P0   |
|          |            | STEL                          | 150 ppm<br>560 mg/m <sup>3</sup>               | OSHA P0   |
| 67-64-1  | Acetone    | TWA                           | 500 ppm  | ACGIH     |
|          |            | STEL                          | 750 ppm  | ACGIH     |
|          |            | TWA                           | 250 ppm<br>590 mg/m <sup>3</sup>               | NIOSH REL |
|          |            | TWA                           | 1,000 ppm<br>2,400 mg/m <sup>3</sup>           | OSHA Z-1  |
|          |            | TWA                           | 750 ppm<br>1,800 mg/m <sup>3</sup>             | OSHA P0   |
|          |            | STEL                          | 1,000 ppm<br>2,400 mg/m <sup>3</sup>           | OSHA P0   |
| 67-56-1  | Methanol   | TWA                           | 200 ppm  | ACGIH     |
|          |            | STEL                          | 250 ppm  | ACGIH     |
|          |            | TWA                           | 200 ppm<br>260 mg/m <sup>3</sup>               | NIOSH REL |

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|            |                                  |      |                                    |           |
|------------|----------------------------------|------|------------------------------------|-----------|
|            |                                  | ST   | 250 ppm<br>325 mg/m <sup>3</sup>   | NIOSH REL |
|            |                                  | TWA  | 200 ppm<br>260 mg/m <sup>3</sup>   | OSHA Z-1  |
|            |                                  | STEL | 250 ppm<br>325 mg/m <sup>3</sup>   | OSHA P0   |
|            |                                  | TWA  | 200 ppm<br>260 mg/m <sup>3</sup>   | OSHA P0   |
| 64742-49-0 | Naphtha (pet), hydro-treated It  | TWA  | 500 ppm<br>2,000 mg/m <sup>3</sup> | OSHA Z-1  |
|            |                                  | TWA  | 400 ppm<br>1,600 mg/m <sup>3</sup> | OSHA P0   |
| 64742-89-8 | Solvent naphtha (pet), It aliph. | TWA  | 500 ppm<br>2,000 mg/m <sup>3</sup> | OSHA Z-1  |
|            |                                  | TWA  | 400 ppm<br>1,600 mg/m <sup>3</sup> | OSHA P0   |
| 111-76-2   | 2-Butoxy ethanol                 | TWA  | 20 ppm                             | ACGIH     |
|            |                                  | TWA  | 5 ppm<br>24 mg/m <sup>3</sup>      | NIOSH REL |
|            |                                  | TWA  | 50 ppm<br>240 mg/m <sup>3</sup>    | OSHA Z-1  |
|            |                                  | TWA  | 25 ppm<br>120 mg/m <sup>3</sup>    | OSHA P0   |
| 142-82-5   | Heptane                          | TWA  | 85 ppm<br>350 mg/m <sup>3</sup>    | NIOSH REL |
|            |                                  | C    | 440 ppm<br>1,800 mg/m <sup>3</sup> | NIOSH REL |
|            |                                  | TWA  | 500 ppm<br>2,000 mg/m <sup>3</sup> | OSHA Z-1  |
|            |                                  | TWA  | 400 ppm<br>1,600 mg/m <sup>3</sup> | OSHA P0   |
|            |                                  | STEL | 500 ppm<br>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     |
|------------|----------|--------------------|---------------------|---|---------------------------|-----------|
| 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 | 0.03 mg/l                 | ACGIH BEI |



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|                  |          |                         |       |  |                     |            |
|------------------|----------|-------------------------|-------|--|---------------------|------------|
|                  |          |                         |       | exposure ceases)   |                     |            |
|                  |          | o-Cresol                | Urine | End of shift (As soon as possible after exposure ceases) | 0.3 mg/g Creatinine | ACGI H BEI |
| Acetone          | 67-64-1  | Acetone                 | Urine | End of shift (As soon as possible after exposure ceases) | 50 mg/l             | ACGI H BEI |
| Methanol         | 67-56-1  | Methanol                | Urine | End of shift (As soon as possible after exposure ceases) | 15 mg/l             | ACGI H BEI |
| 2-Butoxy ethanol | 111-76-2 | Butoxyacetic acid (BAA) | Urine | End of shift (As soon as possible after exposure ceases) | 200 mg/g Creatinine | ACGI H BEI |

#### 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.

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|                          |   |
|--------------------------|---|
| Eye protection           | : Eye wash bottle with pure water<br>Tightly fitting safety goggles<br>Wear face-shield and protective suit for abnormal processing problems. |
| Skin and body protection | : impervious clothing<br>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.<br>When using do not smoke.<br>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                                       | : No data available                   |
| Odour Threshold                             | : No data available                   |
| pH  | : No data available                   |
| Freezing Point                              | : No data available                   |
| Boiling Point (Boiling point/boiling range) | : 56 - 173.5 °C (133 - 344.3 °F)      |
| Flash point                                 | : $\geq -20.00$ °C ( $\geq -4.00$ °F) |
| Evaporation rate                            | : No data available                   |
| Flammability (solid, gas)                   | : No data available                   |
| Burning rate                                | : No data available                   |
| Upper explosion limit                       | : 7 - 36.5 %(V)                       |
| Lower explosion limit                       | : 0.8 - 6 %(V)                        |
| Vapour pressure                             | : No data available                   |
| Relative vapour density                     | : No data available                   |

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|  |   |
|--|---|
| Relative density                       | : 0.815 @ 20 °C (68 °F)                   |
| Density                                | : 0.815 g/cm <sup>3</sup> @ 20 °C (68 °F) |
| Bulk density                           | : No data available                       |
| Water solubility                       | : No data available                       |
| Solubility in other solvents           | : 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 | : No hazards to be specially mentioned.   |
| Conditions to avoid                | : Keep away from heat, flame, sparks and other ignition sources.<br>Do not allow evaporation to dryness.<br>Extremes of temperature and direct sunlight.          |
| Incompatible materials             | : Acids<br>aluminum<br>Amines<br>Ammonia<br>Bases<br>chlorates<br>Chlorine<br>halogens<br>Lead<br>Peroxides<br>Reducing agents<br>salts of strong bases<br>sodium |

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Strong oxidizing agents  
Zinc  
metal salts

Hazardous decomposition products : carbon dioxide and carbon monoxide

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#### SECTION 11. TOXICOLOGICAL INFORMATION

##### Acute toxicity

###### **Product:**

Acute oral toxicity : Acute toxicity estimate : 578.82 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 4043 ppm  
Exposure time: 4 h  
Test atmosphere: gas  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 1,716 mg/kg  
Method: Calculation method

###### **Components:**

###### **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

###### **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

###### **67-56-1:**

Acute oral toxicity : LD50 (rat): 100 mg/kg  
Assessment: The component/mixture is toxic after single ingestion.

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Acute inhalation toxicity : LC50 (rat): 5 mg/l  
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (rabbit): 300 mg/kg  
Assessment: The component/mixture is toxic after single contact with skin.

#### **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

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

#### **111-76-2:**

Acute oral toxicity : LD50 (rat): 745 mg/kg  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (rat): 550 ppm  
Exposure time: 4 h  
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (rat): 1,250 mg/kg  
Assessment: The component/mixture is moderately

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toxic after single contact with skin.

#### **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

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:**

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

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

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

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

#### **67-56-1:**

Species: rabbit  
Result: No skin irritation

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

Species: rabbit  
Result: Irritating to skin.

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

Species: rabbit  
Exposure time: 4 h

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Result: Irritating to skin.

**68410-97-9:**

Species: rabbit

Result: Irritating to skin.

**111-76-2:**

Species: rabbit

Result: Irritating to skin.

**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.

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

**Product:**

Remarks: Irritating to eyes.

**Components:**

**108-88-3:**

Species: rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

**67-64-1:**

Species: rabbit

Result: Irritating to eyes.

Exposure time: 24 h

**67-56-1:**

Species: rabbit

Result: No eye irritation

**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.

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**111-76-2:**

Species: rabbit

Result: Irritating to eyes.

**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:**

**108-88-3:**

Test Type: Maximisation Test (GPMT)

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

GLP: yes

**67-64-1:**

Test Type: Maximization test

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

**67-56-1:**

Test Type: Maximisation Test (GPMT)

Species: guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

**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.

**111-76-2:**

Test Type: Maximization test

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



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Result: Does not cause skin sensitisation.  
Remarks: Based on a similar product formulation.

#### Germ cell mutagenicity

##### **Components:**

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

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.

##### **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  
Application Route: Oral  
Exposure time: 13 wk  
Dose: 5,000, 10,000, 20,000 ppm

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|   |   |
|---|---|
|   | Result: negative  |
| Germ cell mutagenicity-Assessment                       | : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.   |
| <b>67-56-1:</b><br>Genotoxicity in vitro                | : Test Type: DNA damage and/or repair<br>Metabolic activation: with and without metabolic activation<br>Result: Ambiguous   |
| Genotoxicity in vivo                                    | : Test Type: In vivo micronucleus test<br>Test species: mouse (male and female)<br>Cell type: Bone marrow<br>Application Route: Intraperitoneal<br>Exposure time: Single<br>Dose: 0, 1920, 3200, 4480 mg/kg<br>Result: negative |
| Germ cell mutagenicity-Assessment                       | : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.   |
| <b>64742-49-0:</b><br>Germ cell mutagenicity-Assessment | : Mutagenicity classification not possible from current data  |
| <b>64742-89-8:</b><br>Germ cell mutagenicity-Assessment | : Mutagenicity classification not possible from current data  |
| <b>68410-97-9:</b><br>Genotoxicity in vitro             | : Test Type: Mammalian cell gene mutation assay<br>Test species: mouse lymphoma cells<br>Result: positive   |
| Genotoxicity in vivo                                    | : Test Type: In vivo micronucleus test<br>Test species: mouse<br>Method: OECD Test Guideline 474<br>Result: positive  |
| Germ cell mutagenicity-Assessment                       | : Positive result(s) from in vivo heritable germ cell mutagenicity tests in mammals   |
| <b>111-76-2:</b><br>Genotoxicity in vitro               | : Test Type: Mammalian cell gene mutation assay<br>Test species: Chinese hamster ovary (CHO)<br>Metabolic activation: with and without metabolic activation<br>Result: negative   |

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- Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: mouse (male)  
Application Route: Intraperitoneal  
Result: negative
- 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:**

##### **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.

##### **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

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Result: did not display carcinogenic properties

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

#### **67-56-1:**

Carcinogenicity - Assessment : Suspected human carcinogens

#### **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

#### **111-76-2:**

Species: mouse  
Application Route: Inhalation  
Exposure time: 2 yr  
Activity duration: 6 h  
Frequency of Treatment: 5 days/week  
NOAEL: 125 ppm

Result: Limited evidence of carcinogenic effects with no relevance to humans

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

#### **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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#### 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  
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.

#### 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 fetal devel-

: Species: rat

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|  |  |
|--|--|
| Development  | Application Route: Inhalation<br>Dose: 0, 440, 2200, 11000 ppm<br>Frequency of Treatment: 7 days/week<br>General Toxicity Maternal: NOAEC: 2,200 ppm<br>Teratogenicity: NOAEC: 11,000 ppm<br>Embryo-fetal toxicity.: NOAEC: 2,200 ppm<br>Method: OECD Test Guideline 414<br>Result: No teratogenic potential.<br>GLP: No data available  |
| Reproductive toxicity - Assessment                       | : No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments.  |
| <b>67-56-1:</b><br>Effects on fertility                  | : Test Type: Two-generation study<br>Species: rat, male and female<br>Application Route: Inhalation<br>Dose: 0, 0.013, 0.13, 1.3 mg/L<br>Duration of Single Treatment: 20 h<br>General Toxicity - Parent: NOAEC: 1.3 mg/l<br>General Toxicity F1: NOAEC: 0.13 mg/l<br>Fertility: NOAEC: 1.3 mg/l<br>Symptoms: Effects on postnatal development.<br>Result: Animal testing did not show any effects on fertility. |
| Effects on foetal development                            | : Species: rat<br>Application Route: inhalation (vapour)<br>Dose: 0, 6.65, 13.3, 26.6 mg/L<br>Duration of Single Treatment: 20 d<br>Frequency of Treatment: 7 hr/day<br>General Toxicity Maternal: NOAEC: 13.3 mg/L<br>Teratogenicity: NOAEC: 6.65 mg/L<br>Result: Teratogenic effects.  |
| 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><br>Reproductive toxicity - Assessment | : Fertility classification not possible from current data.<br>Embryotoxicity classification not possible from current data.  |
| <b>64742-89-8:</b><br>Reproductive toxicity - Assessment | : Fertility classification not possible from current data.<br>Embryotoxicity classification not possible from current data.  |
| <b>68410-97-9:</b>                                       |  |

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Reproductive toxicity - Assessment : Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.

#### **111-76-2:**

Effects on fertility : Test Type: Two-generation study  
Species: mouse  
Application Route: oral  
Fertility: NOAEL: 720 mg/kg body weight  
Symptoms: Reduced fertility  
Result: Reduced fertility at maternally toxic doses

Effects on foetal development : Test Type: Embryo-foetal development  
Species: rat  
Application Route: Inhalation  
Duration of Single Treatment: 10 d  
Frequency of Treatment: 6 hr/day  
Developmental Toxicity: Lowest observed adverse effect level: 100 ppm  
Result: Developmental toxicity occurred at maternal toxicity dose levels

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

#### **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 fetal 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

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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:**

108-88-3:

| 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, category 3 with narcotic effects. |          |

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, category 3 with narcotic effects. |          |

67-56-1:

| Exposure routes: | Target Organs:               | Assessment:  | Remarks: |
|------------------|------------------------------|--|----------|
|                  | Eyes, Central nervous system | Causes damage to organs., The substance or mixture is classified as specific target organ toxicant, single exposure, category 1. |          |



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64742-49-0:

| 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, category 3 with narcotic effects. |          |

64742-89-8:No data available

68410-97-9:

| 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, category 3 with narcotic effects. |          |

111-76-2:No data available

142-82-5:

| 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, category 3 with narcotic effects. |          |

**STOT - repeated exposure**

**Product:** No data available

**Components:**

**108-88-3:**

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

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

**67-56-1:**No data available

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

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

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

**111-76-2:**No data available

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

#### Repeated dose toxicity

##### Components:

##### **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.

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#### Assessment

##### **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 - Assessment : Causes mild skin irritation., Causes serious eye irritation.

##### **67-56-1:**

Species: mouse, male and female  
NOAEL: 1.3 mg/l  
Application Route: Inhalation  
Exposure time: 12 mths  
Number of exposures: Continuous  
Dose: 0, 0.013, 0.13, 1.3 mg/L

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

Species: rat, male and female  
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

##### **111-76-2:**

Species: rat  
NOAEL: 30  
Application Route: Inhalation  
Exposure time: 14 wk

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Number of exposures: 6 h/d, 5 d/wk

#### **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**

##### **Product:**

May be fatal if swallowed and enters airways.

##### **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.

#### **111-76-2:**

No aspiration toxicity classification

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

Aspiration Toxicity - Category 1

#### **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:**

##### **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.

##### **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

##### **67-56-1:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l  
Exposure time: 48 h  
Test Type: static test

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Toxicity to algae : EC50 (*Scenedesmus capricornutum* (fresh water algae)): 22,000 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to bacteria : IC50 (activated sludge): > 1,000 mg/l  
End point: Growth rate  
Exposure time: 3 h  
Test Type: Static  
Method: OECD Test Guideline 209

#### **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.

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- 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  
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.
- 111-76-2:**
- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,474 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: no
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,800 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: no
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 911 mg/l  
End point: Biomass  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: no
- 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.

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|   |   |
|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 1.5 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Remarks: Very toxic to aquatic organisms. |
| Toxicity to algae                                   | : Remarks: No data available  |
| Ecotoxicology Assessment<br>Acute aquatic toxicity  | : Very toxic to aquatic life.   |
| Chronic aquatic toxicity                            | : Very toxic to aquatic life with long lasting effects.   |

#### Persistence and degradability

##### **Components:**

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

|                  |   |
|------------------|---|
| Biodegradability | : Inoculum: Sewage<br>Biodegradation: 100 %<br>Remarks: Readily biodegradable |
|------------------|---|

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

|                  |                                  |
|------------------|----------------------------------|
| Biodegradability | : Remarks: Readily biodegradable |
|------------------|----------------------------------|

##### **67-56-1:**

|                  |   |
|------------------|---|
| Biodegradability | : aerobic<br>Result: Readily biodegradable.<br>Biodegradation: 72 %<br>Remarks: Readily biodegradable |
|------------------|---|

|                                 |                    |
|---------------------------------|--------------------|
| Biochemical Oxygen Demand (BOD) | : 600 - 1,120 mg/g |
|---------------------------------|--------------------|

|                              |              |
|------------------------------|--------------|
| Chemical Oxygen Demand (COD) | : 1,420 mg/g |
|------------------------------|--------------|

|         |                                |
|---------|--------------------------------|
| BOD/COD | : BOD: 600 - 1120<br>COD: 1420 |
|---------|--------------------------------|

|                    |   |
|--------------------|---|
| Stability in water | : Hydrolysis: 91 % at 19 °C (72 h)<br>Remarks: Hydrolyses on contact with water.<br>Hydrolyses readily. |
|--------------------|---|

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

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



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#### 64742-89-8:

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

#### 111-76-2:

Biodegradability : aerobic  
Inoculum: Activated sludge, domestic, adaption not specified  
Result: Readily biodegradable.  
Biodegradation: 90.4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: no

#### 142-82-5:

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:

##### 108-88-3:

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

##### 67-64-1:

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

##### 67-56-1:

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 1.0  
Exposure time: 72 d  
Temperature: 20 °C  
Concentration: 5 mg/l  
Remarks: This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Partition coefficient: n- : log Pow: -0.77

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octanol/water

**64742-49-0:**

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

**64742-89-8:**

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

**111-76-2:**

Partition coefficient: n-octanol/water : log Pow: 0.83

**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 information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

---

### 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):** UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S., (ACETONE, METHANOL) , 3 (6.1), II, Flash Point: >= -20.00 °C(>= -4.00 °F)

**IMDG (International Maritime Dangerous Goods):** UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S., (ACETONE, METHANOL), 3, (6.1), II

**DOT (Department of Transportation):** UN1992, Flammable liquids, toxic, n.o.s., (ACETONE, METHANOL), 3 (6.1), II

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### SECTION 15. REGULATORY INFORMATION

**OSHA Hazards** : Flammable liquid, Carcinogen, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Moderate skin irritant, Moderate eye irritant, Teratogen, Reproductive hazard, Mutagen, Aspiration hazard

**WHMIS Classification** : B2: Flammable liquid  
D1A: Very Toxic Material Causing Immediate and Serious Toxic Effects  
D1B: Toxic Material Causing Immediate and Serious Toxic Effects  
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 RQ (lbs) | Calculated product RQ (lbs) |
|------------|----------|--------------------|-----------------------------|
| Toluene    | 108-88-3 | 1000               | 2083                        |

##### 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):

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|          |                 |          |
|----------|-----------------|----------|
| 108-88-3 | Toluene         | 48.015 % |
| 67-56-1  | Methanol        | 17.001 % |
| 71-43-2  | Benzene         | 0.0638 % |
| 100-41-4 | Ethylbenzene    | 0.0629 % |
| 107-21-1 | Ethylene glycol | 0.0199 % |
| 110-54-3 | Hexane          | 0.003 %  |
| 91-20-3  | Naphthalene     | 0.0003 % |
| 98-82-8  | Cumene          | 0.0002 % |

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):

|           |                  |          |
|-----------|------------------|----------|
| 108-88-3  | Toluene          | 48.015 % |
| 67-64-1   | Acetone          | 18 %     |
| 67-56-1   | Methanol         | 17.001 % |
| 111-76-2  | 2-Butoxy ethanol | 2 %      |
| 110-82-7  | Cyclohexane      | 0.375 %  |
| 71-43-2   | Benzene          | 0.0638 % |
| 100-41-4  | Ethylbenzene     | 0.0629 % |
| 107-21-1  | Ethylene glycol  | 0.0199 % |
| 1330-20-7 | Mixed xylenes    | 0.0195 % |
| 98-82-8   | Cumene           | 0.0002 % |

#### Clean Water Act

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

|           |               |          |
|-----------|---------------|----------|
| 108-88-3  | Toluene       | 48.015 % |
| 110-82-7  | Cyclohexane   | 0.375 %  |
| 71-43-2   | Benzene       | 0.0638 % |
| 100-41-4  | Ethylbenzene  | 0.0629 % |
| 1330-20-7 | Mixed xylenes | 0.0195 % |
| 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       | 48.015 % |
| 110-82-7  | Cyclohexane   | 0.375 %  |
| 71-43-2   | Benzene       | 0.0638 % |
| 100-41-4  | Ethylbenzene  | 0.0629 % |
| 1330-20-7 | Mixed xylenes | 0.0195 % |
| 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 | 48.015 % |
|----------|---------|----------|

#### US State Regulations

##### Massachusetts Right To Know

|          |                  |           |
|----------|------------------|-----------|
| 108-88-3 | Toluene          | 30 - 50 % |
| 67-64-1  | Acetone          | 10 - 20 % |
| 67-56-1  | Methanol         | 10 - 20 % |
| 111-76-2 | 2-Butoxy ethanol | 1 - 5 %   |

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71-43-2 Benzene 0 - 0.1 %

#### Pennsylvania Right To Know

108-88-3 Toluene 30 - 50 %  
67-64-1 Acetone 10 - 20 %  
67-56-1 Methanol 10 - 20 %  
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 %  
111-76-2 2-Butoxy ethanol 1 - 5 %  
110-82-7 Cyclohexane 0.1 - 1 %  
71-43-2 Benzene 0 - 0.1 %  
100-41-4 Ethylbenzene 0 - 0.1 %  
107-21-1 Ethylene glycol 0 - 0.1 %  
1330-20-7 Mixed xylenes 0 - 0.1 %

#### New Jersey Right To Know

108-88-3 Toluene 30 - 50 %  
67-64-1 Acetone 10 - 20 %  
67-56-1 Methanol 10 - 20 %  
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 %  
111-76-2 2-Butoxy ethanol 1 - 5 %

#### 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  
67-56-1 Methanol  
71-43-2 Benzene

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

|   |   |   |
|---|---|---|
| <b>Switzerland. New notified substances and declared preparations</b> | : | y (positive listing)<br>(The formulation contains substances listed on the Swiss Inventory) |
|---|---|---|

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

# Safety Data Sheet

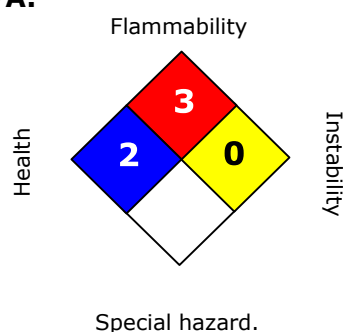
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### SECTION 16. OTHER INFORMATION

#### Further information

##### 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:** 000000148127

**Material number:**  
707954, 707670

| Key or legend to abbreviations and acronyms used in the safety data sheet |   |       |   |
|---|---|-------|---|
| 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                                  | OSHA  | Occupational Safety & Health Admin-                 |

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|        | Scenario Tool  |       | istration  |
|--------|--|-------|--|
| 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%   |