

## Safety Data Sheet

### Lacquer Thinner

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#### SECTION 1: Identification

##### Product identifier

Product name Lacquer Thinner

Product number 8220

##### Supplier's details

Name Ardex Labs.  
Address 2050 Byberry Rd  
Philadelphia, PA 19116  
United States of America

Telephone 2156980500  
email info@ardexlabs.com

##### Emergency phone number(s)

800-424-9300  
CHEMTREC – TOLL FREE 24 HOUR EMERGENCY TELEPHONE  
NUMBER

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#### SECTION 2: Hazard identification

##### Classification of the substance or mixture

##### GHS classification in accordance with OSHA (29 CFR 1910.1200)

- Acute toxicity, dermal (chapter 3.1), Cat. 4
- Acute toxicity, inhalation (chapter 3.1), Cat. 4
- Acute toxicity, oral (chapter 3.1), Cat. 4
- Aspiration hazard (chapter 3.10), Cat. 1
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Flammable liquids (chapter 2.6), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 1
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3
- Toxic to reproduction (chapter 3.7), Cat. 2
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 1

##### GHS label elements, including precautionary statements

##### Pictogram



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## Lacquer Thinner

### Signal word

### Danger

#### Hazard statement(s)

H224  
H226  
H302  
H304  
H312  
H315  
H319  
H332  
H335  
H336  
H351  
H361  
H370  
system)  
H372

Extremely flammable liquid and vapor  
Flammable liquid and vapor  
Harmful if swallowed  
May be fatal if swallowed and enters airways  
Harmful in contact with skin  
Causes skin irritation  
Causes serious eye irritation  
Harmful if inhaled  
May cause respiratory irritation  
May cause drowsiness or dizziness  
Suspected of causing cancer  
Suspected of damaging fertility or the unborn child  
Causes damage to organs (Eyes, Central nervous system)  
Causes damage to organs through prolonged or repeated exposure (Auditory system,

Eyes)

#### Precautionary statement(s)

P201  
P202  
P210  
  
P233  
P240  
P241  
P242  
P243  
P260  
P261  
P264  
P270  
P271  
P280  
P301+P310  
P301+P312  
P303+P361+P353  
  
P304+P340  
P305+P351+P338  
  
P308+P311  
P308+P313  
P312  
P314  
P330  
P331  
P332+P313  
P337+P313  
P362+P364

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/.../equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash hands and exposed skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: Immediately call a POISON CENTER/doctor  
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell,  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
IF exposed or concerned: Call a POISON CENTER/doctor  
IF exposed or concerned: Get medical advice/attention.  
Call a POISON CENTER/doctor if you feel unwell.  
Get medical advice/attention if you feel unwell.  
Rinse mouth.  
Do NOT induce vomiting.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.

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P370+P378 or alcohol-resistant foam to extinguish to extinguish.	In case of fire: Use Use dry sand, dry chemical
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.
P501	Dispose of contents/container to local, state, and federal regulations

### Other hazards which do not result in classification

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

## SECTION 3: Composition/information on ingredients

### Mixtures

#### Hazardous components

Component	Concentration
<b>TOLUENE (CAS no.: 108-88-3; EC no.: 203-625-9; Index no.: 601-021-00-3)</b>	<b>65 %</b>
CLASSIFICATIONS: Flammable liquids (chapter 2.6), Cat. 2; Toxic to reproduction (chapter 3.7), Cat. 2; Aspiration hazard (chapter 3.10), Cat. 1; Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 2; Skin corrosion/irritation (chapter 3.2), Cat. 2; Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3. HAZARDS: H225 - Highly flammable liquid and vapor; H304 - May be fatal if swallowed and enters airways; H315 - Causes skin irritation; H336 - May cause drowsiness or dizziness; H361d - Suspected of damaging the unborn child; H373 - May cause damage to organs through prolonged or repeated exposure.	
<b>Methanol (CAS no.: 67-56-1; EC no.: 200-659-6; Index no.: 603-001-00-X)</b>	<b>40 %</b>
CLASSIFICATIONS: Flammable liquids (chapter 2.6), Cat. 2; Acute toxicity (chapter 3.1), Cat. 3; Specific target organ toxicity, single exposure (chapter 3.8), Cat. 1. HAZARDS: H225 - Highly flammable liquid and vapor; H301 - Toxic if swallowed; H311 - Toxic in contact with skin; H331 - Toxic if inhaled; H370 - Causes damage to organs.	
<b>Naphtha (pet), hydrotreated It AND/OR</b>	
<b>Heptane, branched, cyclic and linear</b>	
<b>AND/OR Solvent naphtha (pet), It aliph.</b>	
<b>64742-49-0 /</b>	
<b>426260-76-6 /</b>	
<b>64742-89-8</b>	<b>35 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Heptane (CAS no.: 142-82-5; EC no.: 205-563-8; Index no.: 601-008-00-2)</b>	<b>30 %</b>
CLASSIFICATIONS: Flammable liquids (chapter 2.6), Cat. 2; Aspiration hazard (chapter 3.10), Cat. 1; Skin corrosion/irritation (chapter 3.2), Cat. 2; Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3; Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1; Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1. HAZARDS: H225 - Highly flammable liquid and vapor; H304 - May be fatal if swallowed and enters airways; H315 - Causes skin irritation; H336 - May cause drowsiness or dizziness; H400 - Very toxic to aquatic life; H410 - Very toxic to aquatic life with long lasting effects.	
<b>ACETONE (CAS no.: 67-64-1; EC no.: 200-662-2; Index no.: 606-001-00-8)</b>	<b>30 %</b>
CLASSIFICATIONS: Flammable liquids (chapter 2.6), Cat. 2; Eye damage/irritation (chapter 3.3), Cat. 2; Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3. HAZARDS: H225 - Highly flammable liquid and vapor; H319 - Causes serious eye irritation; H336 - May cause drowsiness or dizziness.	

## SECTION 4: First-aid measures

### Description of necessary 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.

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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. 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.
Personal protective equipment for first-aid responders	See Section 8 for exposure and PPE recommendations

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

No data available.

### **Indication of immediate medical attention and special treatment needed, if necessary**

Symptoms may be delayed.

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## **SECTION 5: Fire-fighting measures**

### **Suitable extinguishing media**

Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

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

### **Unsuitable extinguishing media:**

High volume water jet.

### **Specific hazards arising from the chemical**

Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations.

Do not allow run-off from fire fighting to enter drains or water courses.

### **Special protective actions for fire-fighters**

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Use a water spray to cool fully closed containers.

### **Further information**

Collect contaminated fire extinguishing water separately.

This must not be discharged into drains.

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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.

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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 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 noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static discharges

### Conditions for safe storage, including any incompatibilities

Store locked up. Store in a well-ventilated place. Store in a cool place. No smoking.

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## SECTION 8: Exposure controls/personal protection

### Control parameters

#### CAS: (not specified)

Naphtha (pet), hydrotreated It AND/OR  
Heptane, branched, cyclic and linear  
AND/OR Solvent naphtha (pet), It aliph.  
64742-49-0 /  
426260-76-6 /  
64742-89-8  
ACGIH: 400ppm TWA

#### CAS: 108-88-3

Toluene

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Cal/OSHA: See Annotated Z-2 PEL inhalation; NIOSH: See Annotated Z-2 REL inhalation; OSHA: See Annotated Z-2 mg/m<sup>3</sup> PEL inhalation

### CAS: 142-82-5

Heptane

NIOSH (USA): 85 ppm, (ST) 440 ppm [15-min] REL inhalation; OSHA (USA): 400 ppm, (ST) 500 ppm PEL inhalation

### CAS: 67-56-1

Methyl alcohol

Cal/OSHA: 200 ppm, (ST) 250 ppm, (C) 1000 ppm PEL inhalation; NIOSH: 200 ppm, (ST) 250 ppm REL inhalation; OSHA: 260 mg/m<sup>3</sup> PEL inhalation; ; ACGIH: 200 ppm PEL-TWA; 250 ppm STEL; NIOSH: 200 ppm, 325 mg/m<sup>3</sup> PEL-TWA; OSHA: 200 ppm, 260 mg/m<sup>3</sup> PEL-TWA

### CAS: 67-64-1

Acetone

Cal/OSHA: 500 ppm, (ST) 750 ppm, (C) 3000 ppm PEL inhalation; NIOSH: 250 ppm REL inhalation; OSHA: 2400 mg/m<sup>3</sup> PEL inhalation

### Appropriate engineering controls

Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof ventilation equipment.

### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Body protection

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

#### Respiratory protection

In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form	Liquid
Odor	No data available.
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	-20F (-4F)
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Vapor pressure	No data available.

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Vapor density	No data available.
Relative density	0.791 g/cm <sup>3</sup> @ 20 °C (68 °F)
Solubility(ies)	
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

### Other safety information

No data available.

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## SECTION 10: Stability and reactivity

### Reactivity

No data available.

### Chemical stability

Material is stable under normal conditions.

### Possibility of hazardous reactions

No data available.

### Conditions to avoid

Heat, sparks, flames

Extreme heat, direct sunlight

### Incompatible materials

Bases

halogens

Oxidizing agents

Reducing agents

### Hazardous decomposition products

No data available.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Acute oral toxicity:

Acute toxicity estimate : 396.79 mg/kg

Method: Calculation method

Acute inhalation toxicity:

Acute toxicity estimate : 12 mg/l

Exposure time: 4 h

Test atmosphere: vapour

Method: Calculation method

Acute dermal toxicity:

Acute toxicity estimate : 1,200 mg/kg

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Method: Calculation method

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

67-56-1:

Acute oral toxicity

:

LD50 (Rat): 100 mg/kg

Assessment: The component/mixture is toxic after single ingestion.

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 / 426260-76-6 / 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 : LC50 (Rat, male and female): > 73.5 mg/l

Exposure time: 4 h

Test atmosphere: vapour

Method: OECD Test Guideline 403

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

Acute dermal toxicity

:

LD50 (Rabbit, male and female): > 2,000 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



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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.

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

#### **Skin corrosion/irritation**

108-88-3:

Species: Rabbit

Exposure time: 4 h

Result: Irritating to skin.

67-56-1:

Species: Rabbit

Result: No skin irritation

64742-49-0 / 426260-76-6 / 64742-89-8:

Species: Rabbit

Exposure time: 24 h

Method: OECD Test Guideline 404

Result: Irritating to skin.

GLP: yes

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

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.

67-64-1:

Species: Rabbit

Exposure time: 24 h

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Method: In vivo  
Result: Mild skin irritation

#### Serious eye damage/irritation

Components:

108-88-3:

Species: Rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

67-56-1:

Species: Rabbit

Result: No eye irritation

64742-49-0 / 426260-76-6 / 64742-89-8:

Result: No eye irritation

142-82-5:

Remarks: No data available

67-64-1:

Species: Rabbit

Result: Irritating to eyes.

Exposure time: 24 h

#### Respiratory or skin sensitization

Result: Did not cause sensitisation on laboratory animals.

GLP: yes

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 / 426260-76-6 / 64742-89-8:

Test Type: Maximization test

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

Remarks: Based on a similar product formulation.

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.

67-64-1:

Test Type: Maximization test

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

#### Germ cell mutagenicity

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

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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.

: 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

Result: negative  
Germ cell mutagenicity-  
Assessment

:

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### **Carcinogenicity**

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.

67-56-1:

Carcinogenicity - Assessment

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:

Not classifiable as a human carcinogen.  
64742-49-0 / 426260-76-6 / 64742-89-8:  
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.

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.

#### Reproductive toxicity

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

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:

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.

67-56-1:

Effects on fertility

:

Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Inhalation  
Dose: 0, 0.013, 0.13, 1.3 mg/L  
Duration of Single Treatment: 20 h  
General Toxicity - Parent: NOAEC: 1.3 mg/l  
General Toxicity F1: NOAEC: 0.13 mg/l  
Fertility: NOAEC: 1.3 mg/l  
Symptoms: Effects on postnatal development  
Result: Animal testing did not show any effects on fertility.  
Reproductive toxicity -  
Assessment

:

Fertility classification not possible from current data.  
Embryotoxicity classification not possible from current data.

64742-49-0 / 426260-76-6 / 64742-89-8:

Reproductive toxicity -  
Assessment

:

Fertility classification not possible from current data.  
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

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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.

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, or on development, based on animal experiments.

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### STOT-single exposure

ACETONE

Remarks: May cause drowsiness or dizziness.

ACETONE

Result: No data available

### STOT-repeated exposure

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 -

Assessment

:

Causes skin 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

64742-49-0 / 426260-76-6 / 64742-89-8:

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/m<sup>3</sup>

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

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

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

## Safety Data Sheet

### Lacquer Thinner

Dose: 0, 12470 mg/3  
Repeated dose toxicity -  
Assessment

:

Causes skin irritation.

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.

#### Aspiration hazard

108-88-3:

May be fatal if swallowed and enters airways.

64742-49-0 / 426260-76-6 / 64742-89-8:

May be fatal if swallowed and enters airways.

142-82-5:

May be fatal if swallowed and enters airways.

#### Additional information

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.

---

## SECTION 12: Ecological information

#### Toxicity

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

:



## Safety Data Sheet

### Lacquer Thinner

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.

67-56-1:

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

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 / 426260-76-6 / 64742-89-8:

Toxicity to fish

:

LC50 (Carassius auratus (goldfish)): 4 mg/l

Exposure time: 24 h

## Safety Data Sheet

### Lacquer Thinner

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

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

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

:

Very toxic to aquatic life.

Chronic aquatic toxicity

:

Very toxic 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

Ecotoxicology Assessment

Acute aquatic toxicity

:

Very toxic to aquatic life.

Chronic aquatic toxicity

:

Very 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

:

## Safety Data Sheet

### Lacquer Thinner

EC50 (Daphnia magna (Water flea)): 7,630 mg/l

Exposure time: 48 h

Test substance: Acetone

Toxicity to algae

:

Remarks: No data available

#### **Persistence and degradability**

108-88-3:

Biodegradability

:

Inoculum: Sewage

Biodegradation: 100 %

Remarks: Readily biodegradable

67-56-1:

Biodegradability

:

aerobic

Result: Readily biodegradable

Biodegradation: 72 %

Remarks: Readily biodegradable

Biochemical Oxygen Demand  
(BOD)

:

600 - 1,120 mg/g

Chemical Oxygen Demand  
(COD)

:

1,420 mg/g

BOD/COD

:

BOD: 600 - 1120COD: 1420

Stability in water

:

Hydrolysis: 91 % at 19 °C (72 h)

Remarks: Hydrolyses on contact with water.

Hydrolyses readily.

64742-49-0 / 426260-76-6 / 64742-89-8:

Biodegradability

:

aerobic

Inoculum: activated sludge

Concentration: 20 mg/l

Biodegradation: 74.30 %

Exposure time: 56 d

GLP: yes

Remarks: Inherently biodegradable.

142-82-5:

Biodegradability

:

Primary biodegradation

Inoculum: activated sludge

Concentration: 100 mg/l

Biodegradation: 100 %

## Safety Data Sheet Lacquer Thinner

Testing period: 2 d  
Exposure time: 25 d  
Remarks: Readily biodegradable  
67-64-1:  
Biodegradability  
:  
Remarks: Readily biodegradable

### **Bioaccumulative potential**

108-88-3:  
Partition coefficient: noctanol/  
water  
: log Pow: 2.73  
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 and very bioaccumulating (vPvB).  
Partition coefficient: noctanol/  
water  
: log Pow: -0.77  
64742-49-0 / 426260-76-6 / 64742-89-8:  
Partition coefficient: noctanol/  
water  
: log Pow: 2.13 - 4.85 (25 °C)  
67-64-1:  
Partition coefficient: noctanol/  
water  
: log Pow: -0.24

### **Mobility in soil**

No data available.

### **Results of PBT and vPvB assessment**

No data available.

### **Other adverse effects**

No data available.

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## **SECTION 13: Disposal considerations**

### **Disposal of the product**

Discharge, treatment, or disposal may be subject to national, state, or local laws.

### **Disposal of contaminated packaging**

Discharge, treatment, or disposal may be subject to national, state, or local laws.

### **Waste treatment**

No data available.

# Safety Data Sheet

## Lacquer Thinner

### Sewage disposal

No data available.

### Other disposal recommendations

No data available.

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## SECTION 14: Transport information

UN Number	1993
UN Proper Shipping Name	Flammable liquids, n.o.s., (HEPTANE, BRANCHED, CYCLIC AND LINEAR, TOLUENE)
Transport hazard class(es)	3
Packing group	II

### Environmental hazards

Not regulated

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## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### Massachusetts Right To Know Components

108-88-3 Toluene 30 - 50 %

67-56-1 Methanol 20 - 30 %

142-82-5 Heptane 10 - 20 %

67-64-1 Acetone 10 - 20 %

71-43-2 Benzene 0 - 0.1 %

#### New Jersey Right To Know Components

108-88-3 Toluene 30 - 50 %

67-56-1 Methanol 20 - 30 %

64742-49-0 /

426260-76-6

/ 64742-89-8

Naphtha (pet), hydrotreated It

AND/OR Heptane, branched, cyclic

and linear AND/OR Solvent naphtha

(pet), It aliph.

20 - 30 %

142-82-5 Heptane 10 - 20 %

67-64-1 Acetone 10 - 20 %

#### Pennsylvania Right To Know Components

108-88-3 Toluene 30 - 50 %

67-56-1 Methanol 20 - 30 %

64742-49-0 /

426260-76-6

/ 64742-89-8

Naphtha (pet), hydrotreated It

AND/OR Heptane, branched, cyclic

and linear AND/OR Solvent naphtha

(pet), It aliph.

20 - 30 %

142-82-5 Heptane 10 - 20 %

# Safety Data Sheet

## Lacquer Thinner

67-64-1 Acetone 10 - 20 %  
71-43-2 Benzene 0 - 0.1 %  
100-41-4 Ethylbenzene 0 - 0.1 %

### California Prop. 65 components

71-43-2 Benzene  
100-41-4 Ethylbenzene  
98-82-8 \*\*Cumene  
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

### CERCLA RQ

Toluene, CAS: 108-88-3.....RQ 1000

### SARA 311/312 Hazards

Fire Hazard  
Immediate (Acute) Health Hazard  
Chronic (Delayed) Health Hazard

### SARA 313 Components

108-88-3  
Toluene 40.0249 %  
67-56-1  
Methanol 25.0006 %

### 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 40.0249 %  
67-56-1 Methanol 25.0006 %

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 40.0249 %  
67-56-1 Methanol 25.0006 %  
67-64-1 Acetone 10 %

### Toxic Substances Control Act (TSCA) Inventory

Listed

### HMIS Rating

Lacquer Thinner	
HEALTH	* 2
FLAMMABILITY	3
PHYSICAL HAZARD	
PERSONAL PROTECTION	

### NFPA Rating

# Safety Data Sheet Lacquer Thinner



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## SECTION 16: Other information

Revision Date:  
4/14/2016

Other Information:

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document

Ardex Laboratories, Inc. 2050 Byberry rd Philadelphia, PA 19116 T: 215-698-0500 [ardexlabs.com](http://ardexlabs.com)

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

North America GHS US 2012