



Virgin Lacquer Thinner (ONT.555)

Safety Data Sheet ONT.555

Date of Revision: 08/16/2016 Version: 2.0

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

1.1. Product identifier

Product Identifier	:	Virgin Lacquer Thinner
Product Code	:	555
Recommended Use	:	Solvent
Restrictions	:	FOR PROFESSIONAL USE ONLY

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Supplier
MCGEHEE & MCGEHEE ENTERPRISES INC
120 SOUTH BOGGESS AVENUE
- USA
T (270) 338-4600 - F (270) 338-4602

1.4. Emergency telephone number

Emergency number : 1-800-424-9300 (CHEMTREC)

SECTION 2: Hazards identification

2.1 GHS Classification

Flammable Liquids: Category 2
Acute Toxicity (Oral): Category 3
Acute Toxicity (Inhalation): Category 3
Acute Toxicity (Dermal): Category 3
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)
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

2.2 GHS Label Element

2.2.1 Hazard Pictograms



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2.2.2 Signal Word

DANGER

2.2.3 Hazard Statements

- H225 Highly flammable liquid and vapor.
H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H340 May cause genetic defects.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H370 Causes damage to organs (Eyes, Central nervous system).
H373 May cause damage to organs (Auditory system, Eyes) through prolonged or repeated exposure if inhaled.

2.2.4 Precautionary Statements

PREVENTION:

- P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
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.
P301+P310+P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340+P311 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
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.

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2.3 Potential Health Effects

2.3.1 CARCINOGENICITY:

IARC:

Group 2B: Possibly carcinogenic to humans

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

64742-89-8 - Solvent Naphtha (pet), IT aliph.

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

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

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

2.3.2 EMERGENCY OVERVIEW:

Appearance	liquid
Color	clear, colorless
Hazard Summary	No information available.

SECTION 3: Composition/Information on ingredients

3.1 Substance / Mixture:

3.2 Mixture - Hazardous Components

CAS #	CHEMICAL NAME	CONCENTRATION (%)
67-56-1	Methanol	30-50
108-88-3	Toluene	30-50
67-64-1	Acetone	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 diet hydro treat process, low-boil	0-20
142-82-5	Heptane	0.1-1

3.3 Special Notes

Functionally equivalent petroleum streams may be found in this preparation at varying concentrations.

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SECTION 4: First aid measures

4.1 General Advice

Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance

Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

IF INHALED:

Consult a physician after significant exposure.

If unconscious place in recovery position and seek medical advice.

IN CASE OF SKIN CONTACT:

If skin irritation persists, call a physician.

If on skin, rinse well with water.

If on clothes, remove clothes.

IN CASE OF EYE CONTACT:

Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Protect unharmed eye.

Keep eye wide open while rinsing.

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.

SECTION 5: Firefighting measures

5.1 Suitable Extinguishing Media

Alcohol-resistant foam

Carbon dioxide (CO₂)

Dry Chemical

5.2 Unsuitable Extinguishing Media

High volume water jet.

5.3 Specific Hazards during Firefighting

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

5.4 Hazardous Combustion Products

No hazardous combustion products are known.

5.5 Specific Extinguishing Methods

Use a water spray to cool fully closed containers.

5.6 Further Information

Collect contaminated fire extinguishing water separately. This must be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

For safety reasons in case of fire, cans should be stored separately in closed containments.

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5.7 Special Protective Equipment for Firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

5.8 NFPA Flammable and Combustible Liquids Classification

Flammable Liquid Class 1B

SECTION 6: Accidental release measures

6.1 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.

6.2 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.

6.3 Methods and Materials for Containment and Cleaning Up

Contain spillage, and then collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculate) and place in container for disposal according to local/national regulations (see Section 13).

SECTION 7: Handling and storage

7.1 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 pressure.

Dispose of rinse water in accordance with local and national regulations.

7.2 Conditions for Safe Storage

No smoking.

Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions.

Electrical installations/working materials must comply with the technological safety standards.

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SECTION 8: Exposure controls/personal protection

8.1 Components with Workplace Control Parameters

CAS #	COMPONENTS	VALUE TYPE (FORM OF EXPOSURE)	CONTROL PARAMETERS/ PERMISSIBLE CONCENTRATION	BASIS
67-56-1	Methanol	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	NIOSH REL
		ST	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z-1
		STEL	250 ppm 325 mg/m3	OSHA PO
		TWA	200 ppm 260 mg/m3	OSHA PO
108-88-3	Toluene	TWA	20 ppm	ACGIH
		TWA	100 ppm 375 mg/m3	NIOSH REL
		ST	150 ppm 560 mg/m3	NIOSH REL
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm	OSHA Z-2
		TWA	100 ppm 375 mg/m3	OSHA PO
		STEL	150 ppm 560 mg/m3	OSHA PO
67-64-1	Acetone	TWA	500 ppm	ACGIH
		STEL	750 ppm	ACGIH
		TWA	250 ppm 590 mg/m3	NIOSH REL
		TWA	1,000 ppm 2,400 mg/m3	OSHA Z-1
		TWA	750 ppm 1,800 mg/m3	OSHA PO
		STEL	1,000 ppm 2,400 mg/m3	OSHA PO
		64742-49-0	Naphtha (pet), hydrotreated lt	TWA
		TWA	400 ppm 1,600 mg/m3	OSHA PO
64742-89-8	Solvent naphtha (pet), lt aliph.	TWA	500 ppm 2,000 mg/m3	OSHA Z-1

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CAS #	COMPONENTS	VALUE TYPE (FORM OF EXPOSURE)	CONTROL PARAMETERS/ PERMISSIBLE CONCENTRATION	BASIS
		TWA	400 ppm 1,600 mg/m ³	OSHA PO
142-82-5	Heptane	TWA	85 ppm 350 mg/m ³	NIOSH REL
		C	440 ppm 1,800 mg/m ³	NIOSH REL
		TWA	500 ppm 2,000 mg/m ³	OSHA Z-1
		TWA	400 ppm 1,600 mg/m ³	OSHA PO
		STEL	500 ppm 2,000 mg/m ³	OSHA PO

8.2 Biological Occupational Exposure Limits

COMPONENTS	CAS #	CONTROL PARAMETERS	BIOLOGICAL SPECIMEN	SAMPLING TIME	PERMISSIBLE CONCENTRATION	BASIS
Methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEi
Toluene	108-88-3	Toluene	In blood	Prior to last shift of work week	0.02 mg/l	ACGIH BEi
		Toluene	Urine	End of shift (as soon as possible after exposure ceases)	0.03 mg/l	ACGIH BEi
		o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g Creatinine	ACGIH BEi
Acetone	67-64-1	Acetone	Urine	End of shift (as soon as possible after exposure ceases)	50 mg/l	ACGIH NEi

8.3 Personal Protective Equipment

8.3.1 RESPIRATORY PROTECTION:

No personal respiratory protective equipment normally required.
In the case of vapor formation use a respirator with an approved filter.

8.3.2 HAND PROTECTION REMARKS:

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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8.3.3 EYE PROTECTION:

Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal pro-processing problems.

8.3.4 SKIN AND BODY PROTECTION:

Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

8.3.5 HYGIENE MEASURES:

Avoid contact with skin, eyes and clothing.

When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and immediately after handling the product.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	: Liquid
Color	: clear, colorless
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Freezing Point	: No data available
Boiling Point (Boiling point/boiling range)	: 56-150 °C (133-302°F)
Flash Point	: > = -20.00 °C (-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)
Vapor Pressure	: 231 mmHg @ 25°C (77 °F) Calculated Vapor Pressure
Relative Vapor Density	: No data available
Relative Density	: 0.808 @ 20 °C (68 °F)
Density	: 0.808 g/cm ³ @ 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
Regulatory VOC (lbs/gal)	: 6.76
Regulatory VOC (g/l)	: 810.03
Actual VOC (lbs/gal)	: 5.97
Actual VOC (g/l)	: 715.36

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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of Hazardous Reactions

Vapors may form explosive mixture with air.

10.4 Conditions to Avoid

Keep away from heat, flame, sparks and other ignition sources.

Extremes of temperature and direct sunlight.

10.5 Incompatible Materials

Acids
Alkalis
Aluminum
Amines
Ammonia
halogens
lead
peroxides
reducing agents
strong bases
strong oxidizing agents
zinc
metal salts

SECTION 11: Toxicological information

11.1 Acute Toxicity

PRODUCT:

Acute Oral Toxicity	Acute toxicity estimate: 249.97 mg/kg Method: Calculation method
Acute Inhalation Toxicity	Acute toxicity estimate: 7.5 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Acute Dermal Toxicity	Acute toxicity estimate: 749.98 mg/kg Method: Calculation method

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11.2 Components

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 inahaltion.
Acute Dermal Toxicity	LD50 (rabbit): 300 mg/kg Assessment: The component/mixture is toxic after single contact with skin.
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: vapor 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
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

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68410-97-9

Acute Dermal Toxicity	LD50 (rat): > 5,000 mg/kg
Acute Inhalation Toxicity	Remarks: No data available
Acute Dermal Toxicity	LD50 (rabbit): > 2,000 mg/kg

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: vapor 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.

11.3 Skin Corrosion/Irritation

11.3.1 Product:

Remarks: Irritating to skin.

11.3.2 Components:

67-56-1

Species	rabbit
Result	No skin irritation

108-88-3

Species	rabbit
Exposure time	4 h
Result	Irritating to skin.

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67-64-1	
Species	rabbit
Exposure time	24 h
Method	In vivo
Result	Mild skin irritation

64742-49-0	
Species	rabbit
Result	Irritating to skin

64742-89-8	
Species	rabbit
Exposure time	4 h
Result	Irritating to skin.

68410-97-9	
Species	rabbit
Result	Irritating to skin.

142-82-5	
Species	rabbit
Exposure time	24 h
Method	OECD Test Guideline 404
Result	Irritating to skin.
GLP	yes
Remarks	Based on a similar product formulation.

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11.4 Serious Eye Damage/Eye Irritation

11.4.1 Product

Remarks: Irritating to eyes.

11.4.2 Components

67-56-1	
Species	rabbit
Result	No eye irritation

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

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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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.

11.5 Respiratory or Skin Sensitization

11.5.1 Components

67-56-1	
Test Type	Maximisation Test (GPMT)
Species	Guinea pig
Method	OECD Test Guideline 406
Result	Did not cause sensitization on laboratory animals.

108-88-3	
Test Type	Maximisation Test (GPMT)
Species	guinea pig
Result	Did not cause sensitization on laboratory animals.
GLP	yes

67-64-1	
Test Type	Maximization test
Species	guinea pig
Result	Did not cause sensitization on laboratory animals.

64742-49-0	
Test Type	Buehler Test
Species	guinea pig
Result	Did not cause sensitization on laboratory animals.

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64742-89-8

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

142-82-5

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

11.6 Germ Cell Mutagenicity

11.6.1 Components

67-56-1

Genotoxicity in Vitro

Test Type	DNA damage and/or repair
Metabolic Activation	with and without metabolic activation
Result	Ambiguous

Genotoxicity in Vivo

Test Type	In vivo micronucleus test
Test Species	mouse (male and female)
Cell Type	Bone marrow
Application Route	Intraperitoneal
Exposure Time	Single
Dose	0 , 1920, 3200, 4480 mg/kg
Result	negative

Germ Cell Mutagenicity Assessment

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

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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 (vapor)
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

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67-64-1	
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.	
64742-49-0	
Germ Cell Mutagenicity Assessment	Mutagenicity classification not possible from current data
64742-89-8	
Germ Cell Mutagenicity Assessment	Mutagenicity classification not possible from current data
68410-97-9	
Genotoxicity in Vitro	
Test Type	Mammalian cell gene mutation assay
Test Species	mouse lymphoma cells
Result	positive
Genotoxicity in vivo	
Test Type	in vivo micronucleus test
Test Species	mouse

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68410-97-9

Method

OECD Test Guideline 474

Result

Positive

Germ Cell Mutagenicity Assessment

Positive result(s) from in vivo heritable germ cell mutagenicity test in mammals.

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.

11.7 Carcinogenicity

11.7.1 Components

67-56-1

Carcinogenicity Assessment

Suspected human carcinogens

108-88-3

Species

Rat, (male and female)

Application Route

inhalation (vapor)

Exposure time

103 wks

Dose

0, 600, 1200 ppm

Frequency of Treatment

6.5 h/d, 5 d/wk

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108-88-3	
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 (71 mg) or 100% (79 mg)
Frequency of Treatment	3 times per wk
NOAEL	79
Result	did not display carcinogenic properties
Carcinogenicity Assessment	Carcinogenicity classification not possible from current data.

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

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142-82-5

Remarks

This information is not available

Carcinogenicity Assessment

Carcinogenicity classification not possible from current data.

11.8 Reproductive Toxicity

11.8.1 Components

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	NOEAC: 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.

Effects on Foetal Development

Species	rat
Application Route	Inhalation (vapor)
Dose	0, 6.65, 13.3, 26.6 mg/L
Duration of Single Treatment	20 d
Frequency of Treatment	7 hr/day
General Toxicity Maternal	NOAEC 13.3 mg/L
Teratogenicity	NOAEC: 6.65 mg/L
Result	Teratogenic effects
Reproductive Toxicity Assessment	Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

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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 (vapor)
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 (vapor)
Dose	0, 250, 750, 1500, 3000 ppm
Duration of Single Treatment	10 d
Frequency of Treatment	6 hr/day

Virgin Lacquer Thinner (ONT.555)

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108-88-3

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 foetal development

Species	rat
Application Route	Inhalation
Dose	0, 440, 2200, 11000 ppm
Frequency of Treatment	7 days/week
General Toxicity Maternal	NOAEC: 2,200 ppm
Teratogenicity	NOAEC: 11,000 ppm
Embryo-foetal toxicity	NOAEC: 2,200 ppm
Method	OECD Test Guideline 414
Result	No teratogenic potential
GLP	No data available
Reproductive Toxicity Assessment	No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments.

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64742-49-0

Reproductive Toxicity Assessment

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

64742-89-8

Reproductive Toxicity Assessment

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

68410-97-9

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	vapor
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 Guidelines 416
Result	No reproductive effects.
GLP	yes
Remarks	Information given is based on data obtained from similar substances.

Effects on foetal developmental

Species	mouse
Application Route	inhalation (vapor)
Dose	0, 900, 3000, 9000 ppm
Duration of Single Treatment	10 d
Frequency of Treatment	6 hr/day

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Safety Data Sheet ONT.555

142-82-5	
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.

11.9 STOT - Single Exposure

11.9.1 Product

No data available

11.9.2 Components

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.	

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

Virgin Lacquer Thinner (ONT.555)

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67-64-1

Inhalation	Central Nervous System	May cause drowsiness or dizziness, The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	
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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.	

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.	

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11.10 STOT - Repeated Exposure

11.10.1 Product

No data available

11.10.2 Components

67-56-1

No data available

108-88-3

Exposure Routes	Target Organs	Assessment	Remarks
Inhalation	Auditory system, Eyes	May cause damage to organs through prolonged or repeated exposure., the substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.	

67-64-1

No data available

64742-49-0

No data available

64742-89-8

No data available

68410-97-9

No data available

142-82-5

No data available

11.11 Repeated Dose Toxicity

11.11.1 Components

67-56-1

Species	mouse, male and female
NOAEL	1.3 mg/l
Application Route	Inhalation

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67-56-1	
Exposure Time	12 mths
Number of Exposures	Continuous
Dose	0, 0.013, 0.13, 1.3 mg/L

108-88-3	
Species	rat, male and female
NOAEL	300
Application Route	inhalation (vapor)
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

67-64-1	
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

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67-64-1	
Dose	2500, 5000, 10000, 20000, 5000
Method	OECD Test Guideline 408
GLP	yes
Repeated Dose Toxicity Assessment	Causes mild skin irritation., Causes serious eye irritation.

64742-89-8	
Species	rat, male and female
NOAEL	1402
Application Route	inhalation (vapor)
Test Atmosphere	vapor
Exposure Time	13 weeks
Number of Exposures	6 hours/day, 5 days/week
Dose	322, 1402, 9869 mg/m3
GLP	yes
Target Organs	Kidney
Symptoms	Nasal and ocular discharge

142-82-5	
Species	rat, male
NOAEL	12470 mg/m3
Application Route	inhalation (vapor)
Exposure Time	16 wks
Number of exposures	12 h/d, 7 d/wk
Dose	0, 12470 mg/m3
Repeated Dose Toxicity Assessment	Causes skin irritation

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Safety Data Sheet ONT.555

11.12 Aspiration Toxicity

11.12.1 Components

108-88-3

Aspiration Toxicity - Category 1

64742-49-0

May be fatal if swallowed and enters airways.

64742-89-8

May be fatal if swallowed and enters airways.

68410-97-9

May be fatal if swallowed and enters airways.

142-82-5

Aspiration Toxicity - Category 1

11.13 Further Information

11.13.1 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.

SECTION 12: Ecological information

12.1 Ecotoxicity

12.1.1 Components

67-56-1

Toxicity to Fish

LC50 (Leopmis 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

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67-56-1	
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 (acticated sludge)	> 1,000 mg/l
End Point	Growth rate
Exposure time	3 h
Test type	Static
Method	OECD Test Guideline 209
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	
EC 50 (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

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108-88-3	
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
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.

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64742-89-8

Toxicity to Fish

LC50 (Oncorhynchus mykiss (rainbow trout))	8.2 mg/l
Exposure Time	96 h
Test Type	Semi-static test

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea))	4.5 mg/l
Exposure time	48 h
Test Type	Immobilization
Analytical monitoring	yes

Toxicity to algae

EC50 (Pseudokirchneriella subcapitata (green algae))	3.7 mg/l
Exposure time	96 h
Test Type	Static test

Ecotoxicology Assessment

Acute Aquatic Toxicity	Toxic to aquatic life
Chronic aquatic toxicity	Toxic to aquatic life with long lasting effects.

68410-97-9

Toxicity to fish

LC50 (Pimephales promelas (fathead minnow))	8.2 mg/l
Exposure time	96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea))	4.5 mg/l
Exposure time	48 h

Toxicity to Algae

EC50 (Pseudokirchneriella subsapitata (green algae))	3.1 mg/l
Exposure time	72 h
Method	OECD Test Guideline 201

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68410-97-9

Ecotoxicology Assessment

Acute Aquatic Toxicity

Toxic to aquatic life.

Chronic Aquatic Toxicity

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.

12.2 Persistence and Degradability

12.2.1 Components

67-56-1

Biodegradability

Aerobic

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67-56-1	
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: 600-1120 COD: 1420
Stability in Water	
Hydrolysis	91 % at 19 °C (72 h)
Remarks	Hydrolyses on contact with water.
Hydrolyses readily	
1058-88-3	
Biodegradability	
Inoculum	Sewage
Biodegradation	100%
Remarks	Readily biodegradable
67-64-1	
Biodegradability	
Remarks	Readily biodegradable
64742-49-0	
Biodegradability	aerobic
Inoculum	activated sludge
Concentration	20 mg/l
Biodegradation	74.30%
Exposure time	56 d
GLP	yes
Remarks	Inherently biodegradable

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Safety Data Sheet ONT.555

64742-89-8

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

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

12.3 Bioaccumulative Potential

12.3.1 Components

67-56-1

Bioaccumulation	
Species	Cyprus 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-octane octanol/water	log Pow: -0.77

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108-88-3

Partition Coefficient: n-octanol/water

log Pow: 2.73

67-64-1

Partition coefficient: n-octanol/water

log Pow: -0.24

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)

12.4 Mobility in Soil

No data available

12.5 Other adverse effects

No data available

12.5.1 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

13.1 Disposal Methods

Waste from Residues	Dispose of in accordance with all applicable local, state and federal regulations.
	Empty remaining contents.

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Contaminated Packaging	Dispose of as unused product.
	Do not re-use empty containers.
	Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 IATA (International Air Transport Association)

UN1263, PAINT RELATED MATERIAL, 3, II, Flash Point: -20.00 °C (-4.00 °F)

14.2 IMDG (International Maritime Dangerous Goods)

UN1263, PAINT RELATED MATERIAL, 3, II

14.3 DOT (Department of Transportation)

UN1263, PAINT RELATED MATERIAL, 3, II

SECTION 15: Regulatory information

15.1 OSHA Hazards

Flammable liquid, Carcinogen, Toxic by ingestion, Toxic by skin absorption, Moderate skin irritant, Moderate eye irritant, Teratogen, Reproductive hazard, Mutagen

15.2 WHMIS Classification

B2: Flammable Liquid

D1B: Toxic material causing immediate and serious toxic effects

D2A: Very toxic material causing other toxic effects

D2B: Toxic material causing other toxic effects

15.3 EPCRA - Emergency Planning and Community Right-To-Know Act

15.4 CERCLA Reportable Quantity

COMPONENTS	CAS #	COMPONENT RQ (lbs)	CALCULATED PRODUCT RQ (lbs)
Toluene	108-88-3	1000	2856

15.5 SARA 304 Extremely Hazardous Substances Reportable Quantity

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

15.6 SARA 311/312 Hazards

Fire Hazard

Chronic Health Hazard

Acute Health Hazard

15.7 Clean Air Act

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

67-56-1	Methanol	40.0009%
108-88-3	Toluene	35.01%

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71-43-2	Benzene	0.0457%
100-41-4	Ethylbenzene	0.0449%
110-54-3	Hexane	0.002%
91-20-3	Naphthalene	0.0002%
98-82-8	Cumene	0.0001%

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

67-56-1	Methanol	40.0009%
108-88-3	Toluene	35.01%
67-64-1	Acetone	15%
110-82-7	Cyclohexane	0.25%
71-43-2	Benzene	0.0457%
100-41-4	Ethylbenzene	0.0449%
1330-20-7	Mixed Xylenes	0.013%
98-82-8	Cumene	0.0001%

15.8 Clean Water Act

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

108-88-3	Toluene	35.01%
110-82-7	Cyclohexane	0.25%
71-43-2	Benzene	0.0457%
100-41-4	Ethylbenzene	0.0449%
1330-20-7	Mixed Xylenes	0.013%
91-20-3	Naphtalene	0.0002%

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

108-88-3	Toluene	35.01%
110-82-7	Cyclohexane	0.25%
71-43-2	Benzene	0.0457%

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100-41-4	Ethylbenzene	0.0449%
1330-20-7	Mixed Xylenes	0.013%
91-20-3	Naphthalene	0.0002%

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

108-88-3	Toluene	35.01%
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15.9 US State Regulations

15.9.1 MASSACHUSETTS RIGHT TO KNOW

67-56-1	Methanol	30-50%
108-88-3	Toluene	30-50%
67-64-1	Acetone	10-20%
71-43-2	Benzene	0-0.1%

15.9.2 PENNSYLVANIA RIGHT TO KNOW

67-56-1	Methanol	30-50%
108-88-3	Toluene	30-50%
67-64-1	Acetone	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%
110-82-7	Cyclohexane	0.1 - 1%
71-43-2	Benzene	0-0.1%
100-41-4	Ethylbenzene	0-0.1%
1330-20-7	Mixed Xylenes	0-0.1%

15.9.3 NEW JERSEY RIGHT TO KNOW

67-56-1	Methanol	30-50%
108-88-3	Toluene	30-50%
67-64-1	Acetone	10-20%

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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%

15.9.4 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.

67-56-1	Methanol
108-88-3	Toluene
71-43-2	Benzene

15.10 The Components of this Product are Reported in the following inventories

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

SECTION 16: Other information

16.1 Version

2.0

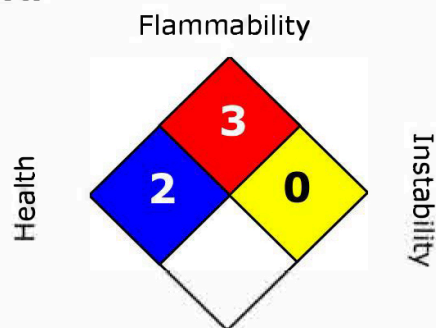
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16.2 Revision Date

08/16/2016

NFPA:



HMIS III:

HEALTH	2*
FLAMMABILITY	3
PHYSICAL HAZARD	0

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.

16.3 Legacy MSDS

000000148128

16.4 Material Number

707948, 707692

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

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Key or Legend to Abbreviations and Acronyms used in the Safety Data Sheet			
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
> =	Greater Than or Equal To	STEL	Short-Term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
< =	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		