



## Safety Data Sheet

### HAPS Free Lacquer Thinner

Version 1.0

Revision Date: 01/19/2015

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : HAPS Free Lacquer Thinner  
**Product Use Description** : Paint related material.

##### Manufacturer or supplier's details

**Company** : Nexeo Solutions LLC - STARTEX™  
**Address** : 3 Waterway Square Place Suite 1000  
Woodlands, Tx. 77380  
United States of America

##### Emergency telephone number:

Health North America: 1-855-NEXEO4U (1-855-639-3648)

Health International: 1-855-NEXEO4U (1-855-639-3648)

Transport North America: CHEMTREC 800.424.9300

**Additional Information:** : Responsible Party: Product Safety Group  
E-Mail: msds@nexeosolutions.com  
SDS Requests: 1-855-429-2661  
SDS Requests Fax: 1-281-500-2370  
Website: www.nexeosolutions.com

#### SECTION 2. HAZARDS IDENTIFICATION

##### GHS Classification

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

##### GHS Label element

Hazard pictograms :





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Signal word	: Danger
Hazard statements	: H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H340 May cause genetic defects. H351 Suspected of causing cancer.
Precautionary statements	: <b>Prevention:</b> 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. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection. P281 Use personal protective equipment as required. <b>Response:</b> 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. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P331 Do NOT induce vomiting. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention.



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P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

#### **Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

#### **Disposal:**

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

#### **Potential Health Effects**

##### **Carcinogenicity:**

###### **IARC**

Group 2B: Possibly carcinogenic to humans

64742-49-0

Naphtha (pet), hydrotreated  
It

64742-89-8

Solvent naphtha (pet), It  
aliph.

###### **ACGIH**

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

###### **OSHA**

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

###### **NTP**

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

#### **Emergency Overview**

Appearance	liquid
Colour	clear, colourless
Odour	fruit-like odor
Hazard Summary	No information available.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture



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#### Hazardous components

CAS-No.	Chemical Name	Concentration (%)
67-64-1	Acetone	30 - 50
64742-49-0	Naphtha (pet), hydrotreated lt	0 - 30
64742-89-8	Solvent naphtha (pet), lt aliph.	0 - 30
68410-97-9	Distillates, pet, lt dist hydrotreat process, low-boil	0 - 30
123-86-4	n-Butyl acetate	20 - 30
67-63-0	Isopropyl alcohol	10 - 20
142-82-5	Heptane	0.1 - 1

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

#### SECTION 4. FIRST AID MEASURES

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



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#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Alcohol-resistant foam Carbon dioxide (CO <sub>2</sub> ) Dry chemical
Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: No hazardous combustion products are known
Specific extinguishing methods	: Use a water spray to cool fully closed containers.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for fire-fighting 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 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.



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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).

#### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Container may be opened only under exhaust ventilation hood.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : No smoking.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully re-sealed 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
67-64-1	Acetone	TWA	500 ppm	ACGIH
		STEL	750 ppm	ACGIH
		TWA	250 ppm	NIOSH REL



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			590 mg/m3	
		TWA	1,000 ppm 2,400 mg/m3	OSHA Z-1
		TWA	750 ppm 1,800 mg/m3	OSHA P0
		STEL	1,000 ppm 2,400 mg/m3	OSHA P0
64742-49-0	Naphtha (pet), hydrotreat- ed It	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
64742-89-8	Solvent naphtha (pet), It aliph.	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
123-86-4	n-Butyl acetate	TWA	150 ppm	ACGIH
		STEL	200 ppm	ACGIH
		ST	200 ppm 950 mg/m3	NIOSH REL
		TWA	150 ppm 710 mg/m3	NIOSH REL
		TWA	150 ppm 710 mg/m3	OSHA Z-1
		TWA	150 ppm 710 mg/m3	OSHA P0
		STEL	200 ppm 950 mg/m3	OSHA P0
67-63-0	Isopropyl alcohol	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1
		TWA	400 ppm 980 mg/m3	OSHA P0
		STEL	500 ppm 1,225 mg/m3	OSHA P0
142-82-5	Heptane	TWA	85 ppm 350 mg/m3	NIOSH REL
		C	440 ppm 1,800 mg/m3	NIOSH REL
		TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
		STEL	500 ppm 2,000 mg/m3	OSHA P0



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#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Acetone	67-64-1	Acetone	Urine	End of shift (As soon as possible after exposure ceases)	50 mg/l	ACGIH BEI
Isopropyl alcohol	67-63-0	Acetone	In urine	End of shift at end of work-week	40 mg/l	ACGIH 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.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

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

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid





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Colour	: clear, colourless
Odour	: fruit-like odor
Odour Threshold	: No data available
pH	: No data available
Freezing Point	: No data available
Boiling Point (Boiling point/boiling range)	: 56 - 127 °C (133 - 261 °F)
Flash point	: -16 °C (3 °F)
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: 1.9 %(V)
Vapour pressure	: 89.9 mmHg @ 20 °C (68 °F)
Relative vapour density	: 2.6(Air = 1.0)
Relative density	: 0.791 @ 20 °C (68 °F) Reference substance: (water = 1)
Density	: 0.791 g/cm <sup>3</sup> @ 20 °C (68 °F)
Bulk density	: No data available
Solubility(ies)	
Water solubility	: slightly soluble
Solubility in other sol-vents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: 290 °C
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	: Vapours may form explosive mixture with air.
Conditions to avoid	: Extremes of temperature and direct sunlight. Heat, flames and sparks.
Incompatible materials	: Acids Aldehydes Bases Chlorine Ethylene oxide halogens isocyanates metal salts Reducing agents Strong bases Strong oxidizing agents
Hazardous decomposition products	: Carbon oxides

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#### SECTION 11. TOXICOLOGICAL INFORMATION

##### Acute toxicity

##### Product:

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

##### Components:

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

Acute oral toxicity	: LD50 (rat): 5,800 mg/kg
Acute inhalation toxicity	: LC50 (rat): 76.0 mg/l



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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

**68410-97-9:**

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

Acute inhalation toxicity : Remarks: No data available

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

**123-86-4:**

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

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

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

**67-63-0:**

Acute oral toxicity : LD50 (rat): 5,500 mg/kg



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Acute inhalation toxicity : LC50 (rat, male and female): > 10000 ppm  
Exposure time: 6 h  
Test atmosphere: vapour  
GLP: yes  
Assessment: The component/mixture is low toxic after short term inhalation.

Acute dermal toxicity : LD50 (rabbit): > 12,800 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: 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:**

##### **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.



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**68410-97-9:**

Species: rabbit

Result: Irritating to skin.

**123-86-4:**

Species: rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: no

**67-63-0:**

Species: rabbit

Exposure time: 4 h

Method: In vivo

Result: No skin irritation

**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:**

**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.

**123-86-4:**

Species: rabbit



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Result: No eye irritation  
GLP: yes

**67-63-0:**

Species: rabbit  
Result: Irritating to eyes.  
Exposure time: 24 h  
Method: In vivo

**142-82-5:**

Species: rabbit  
Result: Irritating to eyes.  
Method: OECD Test Guideline 405  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

#### Respiratory or skin sensitisation

**Components:**

**67-64-1:**

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

**64742-49-0:**

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

**64742-89-8:**

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

**123-86-4:**

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

**67-63-0:**

Test Type: Buehler Test  
Species: guinea pig  
Method: OECD Test Guideline 406  
Result: Did not cause sensitisation on laboratory animals.  
GLP: yes

**142-82-5:**

Test Type: Maximization test  
Species: guinea pig  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitisation.



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Remarks: Based on a similar product formulation.

#### Germ cell mutagenicity

##### Components:

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

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

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

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

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: mouse  
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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	Method: OECD Test Guideline 474 Result: positive
Germ cell mutagenicity-Assessment	: Positive result(s) from in vivo heritable germ cell mutagenicity tests in mammals
<b>123-86-4:</b> Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Test species: Chinese hamster lung fibroblasts Metabolic activation: Without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: No data available
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Test species: mouse (male and female) Application Route: Oral Dose: 500, 1000, 2000 mg/kg bw Method: OECD Test Guideline 474 Result: negative GLP: yes Test substance: Information given is based on data obtained from similar substances.
Germ cell mutagenicity-Assessment	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
<b>67-63-0:</b> Genotoxicity in vitro	: Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative  : Test Type: Mammalian cell gene mutation assay Test species: Chinese hamster ovary (CHO) Metabolic activation: with and without metabolic activation Result: negative GLP: yes
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Test species: mouse (male and female) Application Route: Intraperitoneal Exposure time: Single Dose: 0, 350, 1173, 2500, 3500 mg/kg Result: negative GLP: yes
Germ cell mutagenicity-Assessment	: Did not show mutagenic effects in animal experiments.





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#### 142-82-5:

- Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test species: Rat liver  
Metabolic activation: Without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative
- : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

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

#### Carcinogenicity

##### Components:

##### 67-64-1:

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

Result: did not display carcinogenic properties

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

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

Remarks: This information is not available.

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

#### 67-63-0:

Species: rat, (male and female)

Application Route: inhalation (vapour)

Exposure time: 104 wks

Activity duration: 6 h

Dose: 0, 500, 2500, 5000 ppm

Frequency of Treatment: 5 days/week

NOAEL: 5,000 ppm

Method: OECD Test Guideline 451

Result: did not display carcinogenic properties

GLP: yes

Species: mouse, (male and female)

Application Route: inhalation (vapour)

Exposure time: 78 wks

Activity duration: 6 h

Dose: 0, 500, 2500, 5000 ppm

Frequency of Treatment: 5 days/week

NOAEL: 5,000 ppm

Result: did not display carcinogenic properties

GLP: yes

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:

##### 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



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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.
<b>64742-49-0:</b> Reproductive toxicity - Assessment	: Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.
<b>64742-89-8:</b> Reproductive toxicity - Assessment	: Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.
<b>68410-97-9:</b> Reproductive toxicity - Assessment	: Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.
<b>123-86-4:</b> Effects on fertility	: Species: rat, male and female Application Route: Inhalation Dose: 0, 750, 1500, 2000 ppm Duration of Single Treatment: 6 h Frequency of Treatment: 7 days/week General Toxicity - Parent: NOAEC: 750 ppm General Toxicity F1: NOAEC: 750 ppm Fertility: NOAEC: 2,000 ppm Early Embryonic Development: NOAEC: 750 ppm Symptoms: Effect on reproduction capacity. Method: OECD Test Guideline 416 GLP: yes
Effects on foetal development	: Species: rat, male and female Application Route: vapour Dose: 500, 1500, 3000 ppm Duration of Single Treatment: 6 h Frequency of Treatment: 5 days/week



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	Symptoms: Skeletal malformations. Result: Teratogenic effects. GLP: yes
Reproductive toxicity - Assessment	: Fertility classification not possible from current data. Embryotoxicity classification not possible from current data.
<b>67-63-0:</b> Effects on fertility	: Test Type: Two-generation study Species: rat, male and female Dose: 0, 100, 500, 1000 mg/kg bw/d General Toxicity - Parent: NOAEL: 500 mg/kg body weight General Toxicity F1: NOAEL: 500 mg/kg body weight Fertility: NOAEL: 1,000 mg/kg body weight Symptoms: Maternal effects. Fetotoxicity. Reduced offspring weight gain. Method: OECD Test Guideline 416 Result: Animal testing did not show any effects on fertility. GLP: yes
Effects on foetal development	: Species: rabbit Application Route: Oral Dose: 0, 120, 240, 480 mg/kg bw/day Duration of Single Treatment: 13 d General Toxicity Maternal: NOAEL: 240 mg/kg body weight Developmental Toxicity: NOAEL: 480 mg/kg Symptoms: Maternal toxicity Result: No teratogenic effects. GLP: yes
Reproductive toxicity - Assessment	: Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.
<b>142-82-5:</b> 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.



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GLP: yes

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

Effects on foetal development

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

Reproductive toxicity - Assessment

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

#### STOT - single exposure

**Product:** No data available

#### **Components:**

67-64-1:

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

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.	



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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.	

123-86-4:

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.	

67-63-0:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation, Ingestion	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, sin-	



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		gle exposure, category 3 with narcotic effects.	
--	--	---	--

#### **STOT - repeated exposure**

**Product:** No data available

#### **Components:**

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

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

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

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

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

**67-63-0:** No data available

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

#### **Repeated dose toxicity**

#### **Components:**

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

Species: mouse, male

NOAEL: 20000

Application Route: Oral

Exposure time: 13 wk

Number of exposures: daily

Dose: 1250, 2500, 5000, 10000, 20000

Method: OECD Test Guideline 408

GLP: No data available

Species: mouse, female

NOAEL: 20000

LOAEL: 50000

Application Route: Oral

Exposure time: 13 wk



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Number of exposures: daily  
Dose: 2500, 5000, 10000, 20000, 5000  
Method: OECD Test Guideline 408  
GLP: No data available

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

#### **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

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

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

#### **67-63-0:**

Species: rat, male and female  
NOAEL: > 5000  
Application Route: inhalation (vapour)  
Exposure time: 13 wks  
Number of exposures: 6 h/d, 5 d/wk  
Dose: 0, 100, 500, 1500, 5000 ppm  
Method: OECD Test Guideline 413  
GLP: yes  
Symptoms: Central nervous system depression

Species: mouse, male and female  
NOAEL: > 5000  
Application Route: inhalation (vapour)  
Exposure time: 13 wks  
Number of exposures: 6 h/d, 5 d/wk  
Dose: 0, 100, 500, 1500, 5000 ppm  
Method: OECD Test Guideline 413  
GLP: yes  
Symptoms: Central nervous system depression





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

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

Repeated dose toxicity - : Causes skin irritation.  
Assessment

#### **Aspiration toxicity**

##### **Components:**

#### **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.

#### **67-63-0:**

May be harmful if swallowed and enters airways.

#### **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.

---

## SECTION 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

##### **Components:**

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 6,100 mg/l  
Exposure time: 48 h



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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.

#### **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



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- 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.

#### 123-86-4:

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

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

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

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

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

#### 67-63-0:

Toxicity to fish : LC50 (*Pimephales promelas* (fathead minnow)): 9,640 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 100 mg/l  
Exposure time: 24 h  
Test Type: static test

Toxicity to algae : Remarks: No data available



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Toxicity to bacteria : Toxicity threshold (*Pseudomonas putida*): 1,050 mg/l  
Exposure time: 16 h

#### **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.

#### **Persistence and degradability**

##### **Components:**

##### **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.

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

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

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

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



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Chemical Oxygen Demand (COD) : 0.00169 mg/g

BOD/COD : BOD/COD: 72 %

Theoretical Oxygen Demand (ThOD) : 0.0022 mg/g

#### **67-63-0:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 95 %  
Method: OECD Test Guideline 301E

Chemical Oxygen Demand (COD) : 0.00209 mg/g

Theoretical Oxygen Demand (ThOD) : 0.00240 mg/g

#### **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:**

##### **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)

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

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

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



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octanol/water

#### 67-63-0:

Bioaccumulation

: Bioconcentration factor (BCF): 3.16

Remarks: Does not significantly accumulate in organisms.

Partition coefficient: n-octanol/water

: log Pow: 0.05 (25 °C)

#### Mobility in soil

##### Components:

#### 67-63-0:

Stability in soil

: Remarks: Adsorbs on soil.

#### 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.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.

Contaminated packaging

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



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#### SECTION 14. TRANSPORT INFORMATION

**IATA (International Air Transport Association):** UN1263, PAINT RELATED MATERIAL, 3, II, Flash Point: -16 °C(3 °F)

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

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

#### SECTION 15. REGULATORY INFORMATION

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

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

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

##### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Acetone	67-64-1	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

##### 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):

100-41-4	Ethylbenzene	0.0274 %
108-88-3	Toluene	0.0274 %
71-43-2	Benzene	0.0097 %
110-54-3	Hexane	0.0055 %
67-56-1	Methanol	0.0018 %
91-20-3	Naphthalene	0.0005 %



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

67-64-1	Acetone	30.08 %
123-86-4	n-Butyl acetate	22.4 %
67-63-0	Isopropyl alcohol	19.99 %
110-82-7	Cyclohexane	0.6882 %
1330-20-7	Mixed xylenes	0.0357 %
100-41-4	Ethylbenzene	0.0274 %
108-88-3	Toluene	0.0274 %
64-17-5	Ethanol	0.0199 %
71-43-2	Benzene	0.0097 %
71-23-8	n-Propanol	0.0029 %
67-56-1	Methanol	0.0018 %

#### Clean Water Act

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

123-86-4	n-Butyl acetate	22.4 %
110-82-7	Cyclohexane	0.6882 %
1330-20-7	Mixed xylenes	0.0357 %
100-41-4	Ethylbenzene	0.0274 %
108-88-3	Toluene	0.0274 %
71-43-2	Benzene	0.0097 %
91-20-3	Naphthalene	0.0005 %

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

123-86-4	n-Butyl acetate	22.4 %
110-82-7	Cyclohexane	0.6882 %
1330-20-7	Mixed xylenes	0.0357 %
100-41-4	Ethylbenzene	0.0274 %
108-88-3	Toluene	0.0274 %
71-43-2	Benzene	0.0097 %
91-20-3	Naphthalene	0.0005 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### US State Regulations

##### Massachusetts Right To Know

67-64-1	Acetone	30 - 50 %
123-86-4	n-Butyl acetate	20 - 30 %
67-63-0	Isopropyl alcohol	10 - 20 %
71-43-2	Benzene	0 - 0.1 %

##### Pennsylvania Right To Know

67-64-1	Acetone	30 - 50 %
64742-49-0	Naphtha (pet), hydrotreated It	0 - 30 %
64742-89-8	Solvent naphtha (pet), It aliph.	0 - 30 %





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68410-97-9	Distillates, pet, lt dist hydrotreat process, low-boil	0 - 30 %
123-86-4	n-Butyl acetate	20 - 30 %
67-63-0	Isopropyl alcohol	10 - 20 %
110-82-7	Cyclohexane	0.1 - 1 %
1330-20-7	Mixed xylenes	0 - 0.1 %
100-41-4	Ethylbenzene	0 - 0.1 %
108-88-3	Toluene	0 - 0.1 %

#### New Jersey Right To Know

67-64-1	Acetone	30 - 50 %
64742-49-0	Naphtha (pet), hydrotreated lt	0 - 30 %
64742-89-8	Solvent naphtha (pet), lt aliph.	0 - 30 %
68410-97-9	Distillates, pet, lt dist hydrotreat process, low-boil	0 - 30 %
123-86-4	n-Butyl acetate	20 - 30 %
67-63-0	Isopropyl alcohol	10 - 20 %

#### California Prop 65

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

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

<b>United States TSCA Inventory</b>	:	y (positive listing) (On TSCA Inventory)
<b>Canadian Domestic Substances List (DSL)</b>	:	y (positive listing) (All components of this product are on the Canadian DSL.)
<b>Australia Inventory of Chemical Substances (AICS)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Japan. ENCS - Existing and New Chemical Substances Inventory</b>	:	n (Negative listing) (Not in compliance with the inventory)



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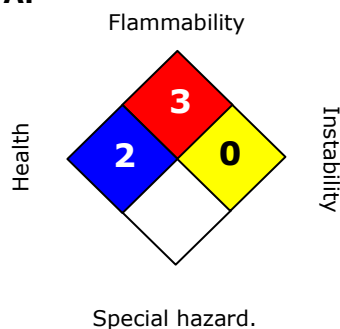
Revision Date: 01/19/2015

<b>Japan. ISHL - Inventory of Chemical Substances (METI)</b>	:	n (Negative listing) (Not in compliance with the inventory)
<b>Korea. Korean Existing Chemicals Inventory (KECI)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>China. Inventory of Existing Chemical Substances in China (IECSC)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Switzerland. New notified substances and declared preparations</b>	:	y (positive listing) (The formulation contains substances listed on the Swiss Inventory)

## 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



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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. This MSDS has been prepared by NEXEO™ Solutions EHS Product Safety Department (1-855-429-2661) MSDS@nexeosolutions.com.

#### Material number:

16057740,

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 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



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			Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50		Lethal Concentration 50%	