

## SAFETY DATA SHEET

Revision Date: 09/20/2012  
Print Date: 6/6/2021  
MSDS Number: 100000000371  
Version: 1.0

0131 LIQUEFIER 91712  
16028821

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Nexeo Solutions	Regulatory Information Number	1-855-429-2661
PO Box 2458	Telephone	1-855-429-2661
Columbus, OH 43216	Emergency telephone number	1-855-639-3648
Product name	0131 LIQUEFIER 91712	
Product code	16028821	

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance: liquid, colourless

WARNING! FLAMMABLE LIQUID AND VAPOR. CAUSES EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITIS AND BURNS. HARMFUL IF SWALLOWED. MAY CAUSE BLINDNESS.

#### Potential Health Effects

##### **Exposure routes**

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

##### **Eye contact**

Can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

##### **Skin contact**

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Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage.

### Ingestion

Swallowing this material may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

### Inhalation

Breathing of vapor or mist is possible. Breathing air containing n-butyl acetate, which results from its use in aerosol applications, may cause delayed lung injury. It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

### Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, Upper respiratory tract, lung (for example, asthma-like conditions), Liver, Kidney, Central nervous system, pancreas, Heart, blood-forming system, male reproductive system, auditory system, Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias., Individuals with preexisting heart disorders maybe more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

### Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: redness of the skin, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Cough, discomfort in the chest, central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, temporary changes in mood and behavior, effects on memory, muscle cramps, Lowered blood pressure, pain in the abdomen and lower back, respiratory depression (slowing of the breathing rate), Blurred vision, Shortness of breath, Lack of coordination, confusion, irregular heartbeat, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), narcosis (dazed or

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sluggish feeling), lung edema (fluid buildup in the lung tissue), kidney damage, liver damage, visual impairment (including blindness), respiratory failure, coma

### Target Organs

Chronic occupational exposure to relatively high levels of benzene (400-800 ppm) has caused damage to the bone marrow (the blood forming system) resulting in aplastic anemia. This type of anemia is characterized by lowered circulating levels of red blood cells, white blood cells, and platelets. The severity of this condition depends upon the level of benzene exposure. Benzene is considered to be toxic to the immune system in that these blood effects may result in lowered ability of the exposed individual to resist infections., This product contains ethanol. Alcoholic beverage consumption has been associated with brain damage, heart damage, and pancreatitis in humans. The relevance of these findings to ethanol exposure in industrial environments is uncertain., Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans., This material (or a component) shortens the time of onset or worsens the liver and kidney damage induced by other chemicals., This material (or a component) shortens the time of onset or worsens the neurotoxic effects induced by other chemicals., Breathing isopropanol vapors has caused damage to the lining of the middle ear in experimental animals. The relevance of this finding to humans is uncertain., Exposure to lethal concentrations of methanol has been shown to cause damage to organs including liver, kidneys, pancreas, heart, lungs and brain. Although this rarely occurs, survivors of severe intoxication may suffer from permanent neurological damage., Based on animal studies, exposure to methyl ethyl ketone (MEK) increases the onset of peripheral neuropathy caused by exposure to methyl butyl ketone (MBK), and/or n-hexane, and/or ethyl butylketone. MEK alone has not been shown to cause peripheral neuropathy., Prolonged intentional toluene abuse may lead to damage to many organ systems having effects on: central and peripheral nervous systems, vision, hearing, liver, kidneys, heart and blood. Such abuse has been associated with brain damage characterized by disturbances in gait, personality changes and loss of memory. Comparable central nervous system effects have not been shown to result from occupational exposure to toluene., Prolonged intentional toluene abuse may lead to hearing loss progressing to deafness. In addition, while noise is known to cause hearing loss in humans, it has been suggested that workers exposed to organic solvents, including toluene, along with noise may suffer greater hearing loss than would be expected from exposure to noise alone., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: blood abnormalities, cardiac sensitization, anemia, effects on male fertility, respiratory tract damage (nose, throat, and airways), pancreatic damage, kidney damage, liver damage, lung damage, central nervous system damage, brain damage, effects on hearing, testis damage, central nervous system

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damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans:, kidney damage, visual impairment, liver damage

### Carcinogenicity

Chronic occupational exposure to relatively high levels of benzene (400-800 ppm) has caused leukemia (cancer of the blood cells). Benzene is listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) and the Occupational Safety and Health Administration (OSHA). Diesel engine exhaust is listed as carcinogenic by the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP). Excess lung and bladder cancers have been reported in workers exposed to these emissions. This product contains ethanol. The International Agency for Research on Cancer (IARC) has determined that exposure to ethanol through chronic human consumption of alcoholic beverages can cause cancer. The relevance of this finding to ethanol exposure in industrial environments is uncertain. This product (or a component) is a petroleum-derived material. Similar materials and certain compounds occurring naturally in petroleum oils have been shown to cause skin cancer in laboratory animals following repeated exposure without washing or removal. n-Propanol caused an increased cancer incidence in rats when administered by injection or by placing the material into the stomach. Problems with these studies, including inadequate evaluation of the data, prevent their use in evaluating n-propanol for carcinogenicity. n-Propanol is not listed as carcinogenic by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), or the Occupational Safety and Health Administration (OSHA).

### Reproductive hazard

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed., This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain., This material (or a component) may be harmful to the human fetus based on positive test results with laboratory animals., This product contains ethanol. Alcoholic beverage consumption has been associated with birth defects in humans. The relevance of this finding to ethanol exposure in industrial environments is uncertain., Methanol has caused birth defects in laboratory animals, but only when inhaled at extremely high vapor concentrations. The relevance of this finding to humans is uncertain., Toluene may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intentional abuse of toluene during pregnancy can cause birth defects in humans., This material (or a component) has been shown to cause birth defects in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans

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is uncertain., There are no data available for assessing risk to the fetus from maternal exposure to this material.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / trade secret no.	Concentration
Aliphatic petroleum distillates	68476-30-2	26.4%
Acetone	67-64-1	10%
Isopropanol	67-63-0	9.8%
Xylene	1330-20-7	9.8%
Ethanol	64-17-5	8.5%
Methanol	67-56-1	7.4%
Methyl Isobutyl Ketone	108-10-1	7%
Toluene	108-88-3	5%
Propanol, normal	71-23-8	3.4%
Methyl Normal Amyl Ketone	110-43-0	3.2%
Ethyl Acetate	141-78-6	2.6%
Methyl Ethyl Ketone	78-93-3	2.5%
Propyl acetate, normal	109-60-4	2.2%
N-Butyl Acetate	123-86-4	1.7%
Benzene	71-43-2	<0.01%

### 4. FIRST AID MEASURES

#### Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

#### Skin

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Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

### Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

### Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

### Notes to physician

**Hazards:** This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion. Administration of high doses of isopropanol in combination with known hepatotoxic chemicals resulted in enhanced liver toxicity in experimental animals. Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This product contains methanol which can cause intoxication and central nervous system depression. Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively removed by hemodialysis.

**Treatment:** No information available.

## 5. FIREFIGHTING MEASURES

### Suitable extinguishing media

Dry chemical, Carbon dioxide (CO<sub>2</sub>), Water spray

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### Hazardous combustion products

Aldehydes, carbon dioxide and carbon monoxide, formaldehyde-like, formaldehyde, Hydrocarbons

### Precautions for fire-fighting

Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

### NFPA Flammable and Combustible Liquids Classification

Flammable Liquid Class IB

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Ensure adequate ventilation. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

### Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

### Methods for cleaning up

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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).

### Other information

Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

## 7. HANDLING AND STORAGE

### Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

### Storage

Store in a cool, dry, ventilated area, away from incompatible substances.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

<b>Aliphatic petroleum distillates</b>		<b>68476-30-2</b>	
ACGIH	time weighted average	100 mg/m3	Inhalable fraction and vapor
<b>Acetone</b>		<b>67-64-1</b>	
ACGIH	time weighted average	500 ppm	
ACGIH	Short term exposure limit	750 ppm	
NIOSH	Recommended exposure limit (REL):	250 ppm	
NIOSH	Recommended exposure	590 mg/m3	



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	limit (REL):	
OSHA Z1	Permissible exposure limit	1,000 ppm
OSHA Z1	Permissible exposure limit	2,400 mg/m3
ACGIH NIC	time weighted average	200 ppm
ACGIH NIC	Short Term Exposure Limit (STEL):	500 ppm
<b>Isopropanol</b>		<b>67-63-0</b>
ACGIH	time weighted average	200 ppm
ACGIH	Short term exposure limit	400 ppm
NIOSH	Recommended exposure limit (REL):	400 ppm
NIOSH	Recommended exposure limit (REL):	980 mg/m3
NIOSH	Short term exposure limit	500 ppm
NIOSH	Short term exposure limit	1,225 mg/m3
OSHA Z1	Permissible exposure limit	400 ppm
OSHA Z1	Permissible exposure limit	980 mg/m3
<b>Xylene</b>		<b>1330-20-7</b>
ACGIH	time weighted average	100 ppm
ACGIH	Short term exposure limit	150 ppm
OSHA Z1	Permissible exposure limit	100 ppm
OSHA Z1	Permissible exposure limit	435 mg/m3
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	435 mg/m3
NIOSH	Short term exposure limit	150 ppm
NIOSH	Short term exposure limit	655 mg/m3
<b>Ethanol</b>		<b>64-17-5</b>
NIOSH	Recommended exposure limit (REL):	1,000 ppm
NIOSH	Recommended exposure limit (REL):	1,900 mg/m3
OSHA Z1	Permissible exposure limit	1,000 ppm
OSHA Z1	Permissible exposure limit	1,900 mg/m3
ACGIH	Short term exposure limit	1,000 ppm
<b>Methanol</b>		<b>67-56-1</b>
ACGIH	time weighted average	200 ppm
ACGIH	Short term exposure limit	250 ppm
NIOSH	Recommended exposure limit (REL):	200 ppm
NIOSH	Recommended exposure	260 mg/m3

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	limit (REL):	
NIOSH	Short term exposure limit	250 ppm
NIOSH	Short term exposure limit	325 mg/m3
OSHA Z1	Permissible exposure limit	200 ppm
OSHA Z1	Permissible exposure limit	260 mg/m3
<b>Methyl Isobutyl Ketone</b>		<b>108-10-1</b>
ACGIH	time weighted average	20 ppm
ACGIH	Short term exposure limit	75 ppm
NIOSH	Recommended exposure limit (REL):	50 ppm
NIOSH	Recommended exposure limit (REL):	205 mg/m3
NIOSH	Short term exposure limit	75 ppm
NIOSH	Short term exposure limit	300 mg/m3
OSHA Z1	Permissible exposure limit	100 ppm
OSHA Z1	Permissible exposure limit	410 mg/m3
<b>Toluene</b>		<b>108-88-3</b>
ACGIH	time weighted average	20 ppm
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	375 mg/m3
NIOSH	Short term exposure limit	150 ppm
NIOSH	Short term exposure limit	560 mg/m3
OSHA Z2	time weighted average	200 ppm
OSHA Z2	Ceiling Limit Value:	300 ppm
OSHA Z2	Maximum concentration:	500 ppm
<b>Propanol, normal</b>		<b>71-23-8</b>
ACGIH	time weighted average	100 ppm
NIOSH	Recommended exposure limit (REL):	200 ppm
NIOSH	Recommended exposure limit (REL):	500 mg/m3
NIOSH	Short term exposure limit	250 ppm
NIOSH	Short term exposure limit	625 mg/m3
OSHA Z1	Permissible exposure limit	200 ppm
OSHA Z1	Permissible exposure limit	500 mg/m3
<b>Methyl Normal Amyl Ketone</b>		<b>110-43-0</b>
ACGIH	time weighted average	50 ppm
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure	465 mg/m3

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	limit (REL):	
OSHA Z1	Permissible exposure limit	100 ppm
OSHA Z1	Permissible exposure limit	465 mg/m3
<b>Ethyl Acetate</b>		<b>141-78-6</b>
ACGIH	time weighted average	400 ppm
NIOSH	Recommended exposure limit (REL):	400 ppm
NIOSH	Recommended exposure limit (REL):	1,400 mg/m3
OSHA Z1	Permissible exposure limit	400 ppm
OSHA Z1	Permissible exposure limit	1,400 mg/m3
<b>Methyl Ethyl Ketone</b>		<b>78-93-3</b>
ACGIH	time weighted average	200 ppm
ACGIH	Short term exposure limit	300 ppm
NIOSH	Recommended exposure limit (REL):	200 ppm
NIOSH	Recommended exposure limit (REL):	590 mg/m3
NIOSH	Short term exposure limit	300 ppm
NIOSH	Short term exposure limit	885 mg/m3
OSHA Z1	Permissible exposure limit	200 ppm
OSHA Z1	Permissible exposure limit	590 mg/m3
<b>Propyl acetate, normal</b>		<b>109-60-4</b>
ACGIH	time weighted average	200 ppm
ACGIH	Short term exposure limit	250 ppm
NIOSH	Recommended exposure limit (REL):	200 ppm
NIOSH	Recommended exposure limit (REL):	840 mg/m3
NIOSH	Short term exposure limit	250 ppm
NIOSH	Short term exposure limit	1,050 mg/m3
OSHA Z1	Permissible exposure limit	200 ppm
OSHA Z1	Permissible exposure limit	840 mg/m3
<b>N-Butyl Acetate</b>		<b>123-86-4</b>
ACGIH	time weighted average	150 ppm
ACGIH	Short term exposure limit	200 ppm
NIOSH	Recommended exposure limit (REL):	150 ppm
NIOSH	Recommended exposure limit (REL):	710 mg/m3
NIOSH	Short term exposure limit	200 ppm
NIOSH	Short term exposure limit	950 mg/m3

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OSHA Z1	Permissible exposure limit	150 ppm
OSHA Z1	Permissible exposure limit	710 mg/m3
<b>Benzene</b>		<b>71-43-2</b>
ACGIH	time weighted average	0.5 ppm
ACGIH	Short term exposure limit	2.5 ppm
NIOSH	Recommended exposure limit (REL):	0.1 ppm
NIOSH	Short term exposure limit	1 ppm
OSHA Z2	time weighted average	10 ppm
OSHA Z2	Ceiling Limit Value:	25 ppm
OSHA Z2	Maximum concentration:	50 ppm
OSHA	time weighted average	1 ppm
OSHA	Short term exposure limit	5 ppm
OSHA	OSHA Action level:	0.5 ppm

### General advice

### Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

### Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist. Maintain eye wash station near work area.

### Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.  
Wear resistant gloves (consult your safety equipment supplier).  
Discard gloves that show tears, pinholes, or signs of wear.

### Respiratory protection

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A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	liquid
<b>Colour</b>	colourless
<b>Boiling point/boiling range</b>	132.89 °F / 56.05 °C @ 1,013.25 hPa Calculated Phase Transition Liquid/Gas
<b>Flash point</b>	(<)39 °F / 4 °C
<b>Vapour pressure</b>	246.375 hPa @ 68 °F / 20 °C Calculated Vapor Pressure

### 10. STABILITY AND REACTIVITY

#### Stability

Stable.

#### Conditions to avoid

Heat, flames and sparks. Exposure to air or moisture over prolonged periods., excessive heat, Exposure to moisture.

#### Incompatible products

Acids, Aldehydes, Alkali metals, aluminum, Amines, Ammonia, Bases, Chlorine, Copper, Copper alloys, Ethylene oxide, Fluorine, halogenated hydrocarbons, halogens, hydroxides, inorganic materials, isocyanates, Lead, nitrates, organic absorbents such as sawdust, peat moss, ground corn cobs, etc., Oxidizing agents, peroxides, Reducing agents, silica, sodium, strong bases, Zinc, Do not use with aluminum equipment at temperatures above 120 degrees F., Peroxides

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### Hazardous decomposition products

carbon dioxide and carbon monoxide, formaldehyde-like, Hydrocarbons

### Hazardous reactions

Product will not undergo hazardous polymerization.

## 11. TOXICOLOGICAL INFORMATION

### Acute oral toxicity

Acute oral toxicity - : no data available  
Product

### Acute oral toxicity - Components

Aliphatic petroleum distillates	: LD 50: 15,700 mg/kg Species: Rat Remarks: LD50
	LD 50: 17,500 mg/kg Species: Rat Remarks: LD50
Acetone	: LD 50: 5,800 mg/kg Species: Rat
Xylene	: LD 50: 4,300 mg/kg Species: Rat
Ethanol	: LD 50: 7,060 mg/kg Species: Rat
Methanol	: LD L0: 300 mg/kg Species: Human
Methyl Isobutyl Ketone	: LD 50: 2,080 mg/kg Species: Rat
Toluene	: LD 50: 2.6 g/kg Species: Rat
Propanol, normal	: LD 50: 2,800 mg/kg Species: Rabbit Remarks: LD50
Methyl Ethyl Ketone	: LD 50: 2,300 - 3,500 mg/kg Species: Rat
Propyl acetate, normal	: LD 50: 9,370 mg/kg Species: Rat
N-Butyl Acetate	: LD 50: 10.8 g/kg Species: Rat
Benzene	: LD 50: 930 mg/kg Species: Rat

### Acute inhalation toxicity

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Acute inhalation toxicity - : no data available  
Product

### Acute inhalation toxicity - Components

Acetone	: LC 50: > 16000 ppm Exposure time: 4 h Species: Rat
Isopropanol	: LC 50: 16000 ppm Exposure time: 4 h Species: Rat
Xylene	: LC 50: 6700 ppm Exposure time: 4 h Species: Rat
Methanol	: LC 50: 64000 ppm Exposure time: 4 h Species: Rat
Remarks: Slightly toxic by inhalation	
Methyl Isobutyl Ketone	: LD 50: > 2000 ppm Exposure time: 4 h Species: Rat
Toluene	: LC 50: 8000 ppm Exposure time: 4 h Species: Rat
	LC 50: 8,000 mg/l Exposure time: 4 h Species: Rat
	LC 50: 12,200 mg/l Exposure time: 2 h Species: Rat
Propanol, normal	: LC 50: > 4000 ppm Exposure time: 4 h Species: Rat
Methyl Normal Amyl Ketone	: LC Lo: 4000 ppm Exposure time: 4 h Species: Rat
Ethyl Acetate	: LC 50: 16,000 mg/l Exposure time: 6 h Species: Rat
Methyl Ethyl Ketone	: LC 50: 11,700 mg/l Exposure time: 4 h Species: Rat
Propyl acetate, normal	: LC 50: 8000 ppm Exposure time: 4 h Species: Rat
N-Butyl Acetate	: LC 50: 160 mg/l Exposure time: 4 h Species: Wistar rat
Benzene	: LC 50: 10,000 mg/l Exposure time: 7 h Species: Rat

### Acute dermal toxicity

Acute dermal toxicity - : no data available  
Product

### Acute dermal toxicity - Components

Aliphatic petroleum distillates	: LD 50: 4,085 mg/kg Species: Rabbit
Acetone	: LD 50: > 20,000 mg/kg Species: Rabbit
Xylene	: LD 50: > 2,000 mg/kg Species: Rabbit
Ethanol	: LD Lo: 20 g/kg Species: Rabbit
Methanol	: LD 50: 12,800 mg/kg Species: Rabbit

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Methyl Isobutyl Ketone	: LD 50: > 3.0 g/kg Species: Rabbit
Toluene	: LD 50: 12,124 mg/kg Species: Rabbit
Propanol, normal	: LD 50: 5,040 mg/kg Species: Rabbit
Methyl Ethyl Ketone	: LD 50: > 5 g/kg Species: Rabbit
N-Butyl Acetate	: LD 50: 17,600 mg/kg Species: Rabbit
Benzene	: LD 50: 8,260 mg/kg Species: Rabbit

### Acute toxicity (other routes of administration)

Acute toxicity (other routes of administration) : no data available

### Acute toxicity (other routes of administration) - Components

Toluene	: LD 50: 2,250 mg/kg Application Route: Subcutaneous Species: Mouse
	LD 50: 1,332 mg/kg Application Route: Intraperitoneal Species: Rat

## 12. ECOLOGICAL INFORMATION

### Biodegradability

Biodegradability - Product : no data available

### Biodegradability - Components

Methanol : 99 % Method: OECD Test Guideline 301D

### Bioaccumulation

Bioaccumulation - Product : no data available

### Bioaccumulation - Components

Methanol : Species: Green algae (Chlorella fusca vacuolata) Exposure time: 24 h Concentration: 0.05 mg/l Bioconcentration factor (BCF): 28,400 Method: Static



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Toluene	: Species: Ide, silver or golden orfe ( <i>Leuciscus idus</i> ) Exposure time: 3 d Concentration: 0.05 mg/l Bioconcentration factor (BCF): 94 Method: Not reported
Ethyl Acetate	: Species: Green algae ( <i>Chlorella fusca vacuolata</i> ) Exposure time: 24 h Concentration: 0.05 mg/l Bioconcentration factor (BCF): 13,500 Method: Static

### Ecotoxicity effects

#### Toxicity to fish

Toxicity to fish - Product	: no data available
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#### Toxicity to fish - Components

Acetone	: LC 50: 4,740 - 6,330 mg/l Exposure time: 96 h Species: Rainbow trout,donaldson trout ( <i>Oncorhynchus mykiss</i> ) Test Type: static test
	LC 50: 8,300 mg/l Exposure time: 96 h Species: Bluegill ( <i>Lepomis macrochirus</i> ) Test Type: static test
	LC 50: 8,733 - 9,482 mg/l Exposure time: 96 h Species: Fathead minnow ( <i>Pimephales promelas</i> ) Test Type: flow-through test
Isopropanol	: LC 50: 5,770 - 7,450 mg/l Exposure time: 96 h Species: Fathead minnow ( <i>Pimephales promelas</i> ) Method: Flow through Remarks: Mortality
Xylene	: LC 50: 23.53 - 29.97 mg/l

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	Exposure time: 96 h Species: Fathead minnow (Pimephales promelas) Test Type: static test
Ethanol	: LC 50: 12,000 - 16,000 mg/l Exposure time: 96 h Species: Rainbow trout,donaldson trout (Oncorhynchus mykiss) Test Type: static test
Methanol	: LC 50: 18,000 - 20,000 mg/l Exposure time: 96 h Species: Rainbow trout,donaldson trout (Oncorhynchus mykiss) Test Type: static test
Methyl Isobutyl Ketone	: LC 50: 492 - 593 mg/l Exposure time: 96 h Species: Fathead minnow (Pimephales promelas) Method: Flow through Remarks: Mortality
Toluene	: LC 50: 5.8 mg/l Exposure time: 96 h Species: Rainbow trout,donaldson trout (Oncorhynchus mykiss) Test Type: Renewal
	LC 50: 12.6 mg/l Exposure time: 96 h Species: Fathead minnow (Pimephales promelas) Test Type: static test
Ethyl Acetate	: LC 50: 220 - 250 mg/l Exposure time: 96 h Species: Fathead minnow (Pimephales promelas)

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Test Type: flow-through test	
Methyl Ethyl Ketone	: LC 50: 3,130 - 3,320 mg/l Exposure time: 96 h Species: Fathead minnow (Pimephales promelas) Test Type: flow-through test Remarks: Mortality
N-Butyl Acetate	: LC 50: 17 - 19 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow) Method: Flow through Remarks: Mortality
	LC 50: 17 - 19 mg/l Exposure time: 96 h Species: Fathead minnow (Pimephales promelas) Method: Flow through Remarks: Mortality
	LC 50: 62 mg/l Exposure time: 96 h Species: Danio rerio (zebra fish) Method: Static Remarks: Mortality
Benzene	: LC 50: 5.3 mg/l Exposure time: 96 h Species: Rainbow trout,donaldson trout (Oncorhynchus mykiss) Test Type: flow-through test

### Toxicity to daphnia and other aquatic invertebrates

Toxicity to daphnia and other aquatic invertebrates - Product	: no data available
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### Toxicity to daphnia and other aquatic invertebrates - Components

Isopropanol : LC 50: > 10,000 mg/l  
 Exposure time: 24 h  
 Species: Water flea (Daphnia magna)  
 Method: Static  
 Test Type: static test  
 Remarks: Mortality

Xylene : LC 50: > 100 - < 1,000 mg/l  
 Exposure time: 24 h  
 Species: Water flea (Daphnia magna)  
 Test Type: static test

Ethanol : EC 50: > 10,000 mg/l  
 Exposure time: 48 h  
 Species: Water flea (Daphnia magna)  
 Test Type: static test

Methanol : EC 50: > 10,000 mg/l  
 Exposure time: 48 h  
 Species: Water flea (Daphnia magna)  
 Test Type: static test

Methyl Isobutyl Ketone : EC 50: 3,682 mg/l  
 Exposure time: 24 h  
 Species: Water flea (Daphnia magna)  
 Method: Static  
 Remarks: Intoxication

Toluene : EC 50: 6 mg/l  
 Exposure time: 48 h  
 Species: Water flea (Daphnia magna)  
 Test Type: static test

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Ethyl Acetate	: LC 50: 154 mg/l Exposure time: 48 h Species: Water flea (Daphnia cucullata) Test Type: static test
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Methyl Ethyl Ketone	: EC 50: 4,025 - 6,440 mg/l Exposure time: 48 h Species: Water flea (Daphnia magna) Test Type: static test Remarks: Intoxication
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N-Butyl Acetate	: LC 50: 205 mg/l Exposure time: 24 h Species: Water flea (Daphnia magna) Method: Static Remarks: Mortality
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Benzene	: EC 50: 8.76 - 15.6 mg/l Exposure time: 48 h Species: Water flea (Daphnia magna) Method: Static Remarks: Intoxication
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### Toxicity to algae

Toxicity to algae - Product	: no data available
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### Toxicity to bacteria

Toxicity to bacteria - Product	: no data available
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### 13. DISPOSAL CONSIDERATIONS

#### Waste disposal methods

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.

### 14. TRANSPORT INFORMATION

#### REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN 1993	FLAMMABLE LIQUID, N.O.S. (ALIPHATIC PETROLEUM DISTILLATES, Acetone)	3		II	
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#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN 1993	FLAMMABLE LIQUID, N.O.S. (ALIPHATIC PETROLEUM DISTILLATES, Acetone)	3		II	
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#### INTERNATIONAL MARITIME DANGEROUS GOODS

UN 1993	FLAMMABLE LIQUID, N.O.S. (ALIPHATIC PETROLEUM DISTILLATES, Acetone)	3		II	
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#### MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

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UN	1993	FLAMMABLE LIQUID, N.O.S. (ALIPHATIC PETROLEUM DISTILLATES, Acetone)	3	II
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### TRANSPORT CANADA - INLAND WATERWAYS

UN	1993	Flammable liquid, n.o.s. (ALIPHATIC PETROLEUM DISTILLATES, Acetone)	3	II
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### TRANSPORT CANADA - RAIL

UN	1993	Flammable liquid, n.o.s. (ALIPHATIC PETROLEUM DISTILLATES, Acetone)	3	II
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### TRANSPORT CANADA - ROAD

UN	1993	Flammable liquids, n.o.s. (ALIPHATIC PETROLEUM DISTILLATES, Acetone)	3	II
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### U.S. DOT - INLAND WATERWAYS

UN	1993	Flammable liquids, n.o.s. (ALIPHATIC PETROLEUM DISTILLATES, Acetone)	3	II
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### U.S. DOT - RAIL

UN	1993	Flammable liquids, n.o.s. (ALIPHATIC PETROLEUM DISTILLATES, Acetone)	3	II
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### U.S. DOT - ROAD

UN	1993	LIQUIDO INFLAMABLE, N.E.P. (ALIPHATIC PETROLEUM DISTILLATES, Acetone)	3	II
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\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

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### 15. REGULATORY INFORMATION

#### California Prop. 65

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ethanol  
Methanol  
Benzene  
Toluene

#### SARA Hazard Classification

#### SARA 311/312 Classification

Fire Hazard  
Acute Health Hazard  
Chronic Health Hazard

#### New Jersey RTK Label Information

Aliphatic petroleum distillates	68476-30-2
Acetone	67-64-1
Isopropanol	67-63-0
Xylene	1330-20-7
Ethanol	64-17-5
Methanol	67-56-1
Methyl Isobutyl Ketone	108-10-1
Toluene	108-88-3
Propanol, normal	71-23-8
Methyl Normal Amyl Ketone	110-43-0
Ethyl Acetate	141-78-6
Methyl Ethyl Ketone	78-93-3
Propyl acetate, normal	109-60-4
N-Butyl Acetate	123-86-4
Benzene	71-43-2



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### Pennsylvania RTK Label Information

Aliphatic petroleum distillates	68476-30-2
Acetone	67-64-1
Isopropanol	67-63-0
Xylene	1330-20-7
Ethanol	64-17-5
Methanol	67-56-1
Methyl Isobutyl Ketone	108-10-1
Toluene	108-88-3
Propanol, normal	71-23-8
Methyl Normal Amyl Ketone	110-43-0
Ethyl Acetate	141-78-6
Methyl Ethyl Ketone	78-93-3
Propyl acetate, normal	109-60-4
N-Butyl Acetate	123-86-4
Benzene	71-43-2

### Notification status

United States TSCA Inventory	y (positive listing)
Canadian Domestic Substances List (DSL)	y (positive listing)

	HMIS	NFPA
Health	2*	2
Flammability	3	3
Physical hazards	1	
Instability		1
Specific Hazard	--	--

### 16. OTHER INFORMATION



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