MATERIAL SAFETY DATA SHEET



1. PRODUCT AND COMPANY IDENTIFICATION

Material name

SUPER 16 PAINT GUN CLEANER

Version #

01

Revision date

09-09-2009

CAS#

Mixture

Product Code

0300585

Manufacturer information

Superior Oil Company, Inc.

1402 North Capitol Avenue, Suite #100

Indianapolis, IN 46202 US Emergency (317) 781-4400

2. HAZARDS IDENTIFICATION

OSHA regulatory status

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure

Inhalation. Ingestion. Skin contact. Eye contact.

Eyes

Causes eye irritation. Avoid contact with eyes.

Skin

This product may be harmful if it is absorbed through the skin. Irritating to skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation

and dermatitis (rash). Do not get this material in contact with skin.

Inhalation

Irritating to respiratory system. Prolonged inhalation may be harmful. Avoid breathing

dust/fume/gas/mist/vapors/spray.

Ingestion

Components of the product may be absorbed into the body by ingestion. Do not ingest.

Target organs

Blood, Central nervous system, Kidney, Liver, Respiratory System, Skin,

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged and may cause blood damage. These effects have not been observed in humans.

Chronic effects

Unconsciousness. Edema. Jaundice. Cyanosis. This product may be harmful if it is absorbed through the skin. Liver injury may occur. Kidney injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Prolonged skin contact may defat the skin and produce dermatitis.

Signs and symptoms

Irritation of nose and throat. Upper respiratory tract irritation. Irritation of eyes and mucous membranes. Unconsciousness. Narcosis. Cyanosis. Decrease in motor functions. Behavioral

changes. Edema. Liver enlargement. Jaundice. Proteinuria. Defatting of the skin. Rash. Irritation.

Potential environmental effects

Components of this product are hazardous to aquatic life. May cause long-term adverse effects in the environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

	108-88-3	
Toluene	100 00 3	40 - 60
Acetone	67-64-1	10 - 20
2-Methyl-4-Pentanone	108-10-1	2.5 - 10
Acetic Acid, Butyl Ester	123-86-4	2.5 - 10
Methanol	67-56-1	2.5 - 10
Methyl Ethyl Ketone	78-93-3	2.5 - 10
Xylene (Mixed Isomers)	1330-20-7	2.5 - 10
2-Butoxyethanol	111-76-2	1 - 2.5

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4. FIRST AID MEASURES

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

Immediately take off all contaminated clothing. Wash off with warm water and soap. Get medical Skin contact

attention if irritation develops or persists.

Move to fresh air. If breathing is difficult, give oxygen. Call a physician if breathing becomes Inhalation

difficult.

Ingestion Have victim rinse mouth thoroughly with water. Do not induce vomiting without advice from

poison control center. If ingestion of a large amount does occur, call a poison control center

immediately.

Notes to physician

Symptoms may be delayed.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing

media

Water. Foam. Dry powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

Specific hazards arising

from the chemical

Protective equipment and precautions for firefighters

Fire may produce irritating, corrosive and/or toxic gases.

In case of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Specific methods

In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions Methods for containment

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

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Methods for cleaning up

Should not be released into the environment.

Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. After removal flush contaminated area thoroughly with water.

Never return spills to original containers for re-use.

7. HANDLING AND STORAGE

Handling

Vapors may form explosive mixtures with air. Do not handle or store near an open flame, heat or other sources of ignition. Do not smoke. All equipment used when handling the product must be grounded. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get this material in contact with skin. Avoid contact with eyes. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Avoid prolonged exposure. Wash thoroughly after handling. Avoid release to the environment.

Storage

The pressure in sealed containers can increase under the influence of heat. Keep away from heal and sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in cool place. Keep in a well-ventilated place. Keep container tightly closed. Keep in an area equipped with sprinklers. Keep this material away from food, drink and animal feed. Keep out of the reach of children. Use care in handling/storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

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Components	Туре	Value	
2-Butoxyethanol (111-76-2)	TWA	20.0000 ppm	77575777070
2-Methyl-4-Pentanone (108-10-1)	STEL	75.0000 ppm	
	TWA	50.0000 ppm	
Acetic Acid, Butyl Ester (123-86-4)	STEL	200.0000 ppm	
	TWA	150.0000 ppm	
Acetone (67-64-1)	STEL	750.0000 ppm	
•	TWA	500.0000 ppm	
Methanol (67-56-1)	STEL	250.0000 ppm	
	TWA	200.0000 ppm	
Methyl Ethyl Ketone (78-93-3)	STEL	300.0000 ppm	
	TWA	200.0000 ppm	
Toluene (108-88-3)	TWA	20.0000 ppm	
Xylene (Mixed Isomers) (1330-20-7)	STEL	150.0000 ppm	
	TWA	100.0000 ppm	

U.S. - OSHA

Components	Туре	Value	
2-Butoxyethanol (111-76-2)	PEL	50.0000 ppm	
		240.0000 mg/m3	
	TWA	120.0000 mg/m3	
		25.0000 ppm	
2-Methyl-4-Pentanone (108-10-1)	PEL	410.0000 mg/m3	
		100.0000 ppm	
	STEL	75.0000 ppm	
		300.0000 mg/m3	
	TWA	50.0000 ppm	
		205.0000 mg/m3	
Acetic Acid, Butyl Ester (123-86-4)	PEL	150.0000 ppm	
		710.0000 mg/m3	
	STEL	950.0000 mg/m3	
		¹ 200.0000 ppm	
	TWA	710.0000 mg/m3	
		150.0000 ppm	

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Acetone (67-64-1) PEL 1000.0000 ppm 2400.0000 mg/m3 STEL 1000.0000 ppm 2400.0000 mg/m3 TWA 750.0000 ppm 1800.0000 mg/m3 Methanol (67-56-1) PEL 200.0000 mg/m3 STEL 200.0000 mg/m3 TWA 200.0000 ppm 260.0000 mg/m3 TWA 200.0000 ppm 325.0000 mg/m3 TWA 200.0000 ppm 260.0000 mg/m3 TWA 200.0000 ppm 390.0000 mg/m3 TEL 300.0000 ppm 590.0000 mg/m3 TWA 200.0000 ppm 375.0000 mg/m3 TWA 100.0000 ppm 375.0000 mg/m3 TWA 375.0000 mg/m3 TWA 375.0000 mg/m3 TWA TWA 100.0000 ppm 655.0000 mg/m3 TWA 100.0000 ppm 655.0000 mg/m3	Components	Туре	Value	
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TWA 100.0000 ppm		•		
		TWA		

Engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits.

Personal protective equipment

Eye / face protection

Avoid contact with eyes. Wear chemical goggles.

Skin protection

Avoid contact with the skin. Wear appropriate chemical resistant clothing. Wear appropriate

chemical resistant gloves.

Respiratory protection

Do not breathe dust/fume/gas/mist/vapors/spray. Wear positive pressure self-contained breathing apparatus (SCBA) when engineering controls are insufficient to maintain exposure below

recommended levels.

General hygiene considerations

When using do not smoke. Avoid contact with eyes. Avoid contact with skin. Keep away from food

and drink. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance

Clear.

Color

Colorless.

Odor

Typical Solvent.

Odor threshold Physical state

Not available. Liquid.

Form

Liquid.

pΗ

Not available.

Melting point

Not available.

Freezing point

Not available.

Boiling point

132.8 °F (56 °C) estimated

Flash point 24.8 °F (-4 °C) (Lowest flashing component)

Evaporation rate > 1 (Butyl Acetate = 1)

Flammability limits in air, upper, % by volume

36.5 %

Flammability limits in air,

lower, % by volume

1 %

Vapor pressure

77.99 hPa (1 hPa = 0.75006)

Vapor density

> 1 (Air = 1)

Specific gravity

0.842

Relative density Solubility (water) Not available.

Partition coefficient

Miscible.

(n-octanoi/water)

Not available

Auto-ignition temperature

464 °F (240 °C) estimated

Decomposition temperature

Not available.

VOC

90 %

Percent volatile

100 %

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

This product is incompatible with nitrates. Strong oxidizing agents. Strong acids. Ammonia.

Amines. Peroxides. Isocyanates. Caustics.

Hazardous decomposition

products

Irritants. Toxic gas.

Possibility of hazardous

Hazardous polymerization does not occur.

reactions

11. TOXICOLOGICAL INFORMATION

Toxicological data

Components	Test Results
2-Methyl-4-Pentanone (108-10-1)	Acute Dermal LD50 Rabbit: >= 16000 mg/kg
	Acute Inhalation LC50 Rat: 8.2 mg/l 4.00 Hours
	Acute Oral LD50 Rat: 2080 mg/kg
	Acute Other LD50 Guinea pig: 0.919 ml/kg
	Acute Other LD50 Mouse: 590 mg/kg
	Acute Other LD50 Rat: 1.14 ml/kg
Toluene (108-88-3)	Acute Dermal LD50 Rabbit: 12124 mg/kg
	Acute Inhalation LC50 Mouse: 400 mg/l 24.00 Hours
	Acute Inhalation LC50 Rat: 26700 mg/l 1.00 Hours
	Acute Oral LD50 Rat: 2600 - 7500 mg/kg
	Acute Other LD50 Rat: 1960 mg/kg
2-Butoxyethanol (111-76-2)	Acute Dermal LD50 Rabbit: 400 mg/kg
	Acute Inhalation LC50 Mouse: 700 mg/l 7.00 Hours
	Acute Inhalation LC50 Rat: 450 mg/l 4.00 Hours
	Acute Oral LD50 Guinea pig: 1200 mg/kg
	Acute Oral LD50 Mouse: 1200 mg/kg
	Acute Oral LD50 Rabbit: 320 mg/kg
	Acute Oral LD50 Rat: 1480 mg/kg
	Acute Other LD50 Mouse: 1130 mg/kg
	Acute Other LD50 Rabbit: 280 mg/kg
	Acute Other LD50 Rat: 340 mg/kg

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Acute Oral LD50 Rats: 14000 mg/kg Acute Inhalation LC50 Rabbit: >= 43 g/kg Acute Inhalation LC50 Rabbit: >= 43 g/kg Acute Inhalation LC50 Rate: 6350 mg/l 4.00 Hours Acute Inhalation LC50 Rate: 6350 mg/l 4.00 Hours Acute Inhalation LC50 Rate: 6350 mg/l 4.00 Hours Acute Inhalation LC50 Rate: 8000 mg/l 4.00 Hours Acute Oral LD50 Robbit: 1590 mg/kg Acute Oral LD50 Rabbit: 15800 mg/kg Acute Oral LD50 Rabbit: 15800 mg/kg Acute Inhalation LC50 Cat: 43.68 mg/l 6.00 Hours Acute Inhalation LC50 Cat: 43.68 mg/l 6.00 Hours Acute Inhalation LC50 Rate: 87.5 mg/l 6.00 Hours Acute Oral LD50 Mookey: 2 g/kg Acute Oral LD50 Mookey: 2 g/kg Acute Oral LD50 Robbit: 14.4 g/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Other LD50 House: 8555 mg/kg Acute Other LD50 House: 4100 mg/kg Acute Other LD50 Mookey: 3 g/kg Acute Other LD50 Mookey: 3 g/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Other LD50 Mookes: 300 mg/kg Acute Other LD50 Robbit: 5340 mg/kg Acute Oral LD50 Robbit: 5340 mg/kg Acute Oral LD50 Robbit: 5340 mg/kg Acute Oral LD50 Roboses: 1297 mg/kg Acute Oral LD50 Roboses: 1297 mg/kg Acute Other LD50 Mookes: 1297 mg/kg Acute Other LD50 Roboses: 1200 mg/kg Acute Other LD50 Roboses: 1200 mg/kg Acute Inhalation LC50 Roboses: 1200 mg/kg	Components		Test Results
Acute Dermal LD50 Rabbit: >= 43 g/kg Acute Inhalation LC50 Rouse: 3907 mg/l 6.00 Hours Acute Inhalation LC50 Mouse: 3907 mg/l 6.00 Hours Acute Inhalation LC10 Rat: 8000 mg/l 4.00 Hours Acute Oral LD50 Mouse: 1590 mg/kg Acute Oral LD50 Rat: 3523 - 8600 mg/kg Acute Oral LD50 Rabbit: 15800 mg/kg Acute Oral LD50 Rabbit: 15800 mg/kg Acute Oral LD50 Rabbit: 15800 mg/kg Acute Oral LD50 Dog: 8000 mg/kg Acute Oral LD50 Dog: 8000 mg/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Inhalation LC50 Rat: 51.0 mg/l 8.00 Hours Acute Oral LD50 Monkey: 3 g/kg Acute Oral LD50 Rabbit: 52 mg/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Monkey: 1297 mg/kg Acute Other LD50 Monkey: 1297 mg/kg Acute Other LD50 Rabbit: 5800 mg/kg Acute Other LD50 Rabbit: 5800 mg/kg Acute Inhalation LC50 Rabbit: 5800 mg/kg Acute Inhalation LC50 Rabbit: 5800 mg/kg Acute Inhalation LC50 Rabbit: 1000 mg/l 45.00 Minutes Acute Inhalation LC50 Rabbit: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rabbit: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rabbit: 26000 mg/kg Acute Inhalation LC50 Rabbit: 3600 mg/kg Acute Inhal	Acetic Acid, Butyl Ester (123-86-4	1)	Acute Inhalation LC50 Wistar rat: 160 mg/l 4.00 Hours
Acute Inhalation LC50 Mouse: 3907 mg/l 6.00 Hours Acute Inhalation LC50 Rat: 6350 mg/l 4.00 Hours Acute Inhalation LC10 Rat: 6000 mg/l 4.00 Hours Acute Inhalation LC10 Rat: 8000 mg/l 4.00 Hours Acute Oral LD50 Mouse: 1590 mg/kg Acute Oral LD50 Rat: 3523 - 8600 mg/kg Acute Dermal LD50 Rabbit: 15800 mg/kg Acute Inhalation LC50 Cat: 43.68 mg/l 6.00 Hours Acute Inhalation LC50 Cat: 43.68 mg/l 6.00 Hours Acute Oral LD50 Dog: 8000 mg/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monse: 7300 mg/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Oral LD50 Rat: 5228 mg/kg Acute Other LD50 Rabbit: 1825 mg/kg Acute Other LD50 House: 8555 mg/kg Acute Other LD50 House: 8555 mg/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Other LD50 Mouse: 5.2 g/kg Acute Other LD50 Mouse: 5.2 g/kg Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rats: 5500 mg/kg Acute Other LD50 Rabbit: >= 8000 mg/kg			Acute Oral LD50 Rat: 14000 mg/kg
Acute Inhalation LC50 Rat: 6350 mg/l 4.00 Hours Acute Inhalation LCL0 Rat: 8000 mg/l 4.00 Hours Acute Oral LD50 Mouse: 1590 mg/kg Acute Oral LD50 Rat: 3523 - 8600 mg/kg Acute Dermal LD50 Rat: 3523 - 8600 mg/kg Acute Dermal LD50 Ratis 15800 mg/kg Acute Inhalation LC50 Cat: 43.68 mg/l 6.00 Hours Acute Inhalation LC50 Cat: 43.68 mg/l 6.00 Hours Acute Oral LD50 Dog: 8000 mg/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Ratis 87.5 mg/kg Acute Oral LD50 Ratis 87.5 mg/kg Acute Oral LD50 Ratis 87.5 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Ratis 87.5 mg/kg Acute Oral LD50 Ratis 87.5 mg/kg Acute Oral LD50 Ratis 87.5 mg/kg Acute Oral LD50 Ratis 87.5 mg/kg Acute Other LD50 Rat	Xylene (Mixed Isomers) (1330-20)-7)	Acute Dermal LD50 Rabbit: >= 43 g/kg
Acute Inhalation LCLO Rat: 8000 mg/l 4.00 Hours Acute Oral LDS0 Mouse: 1590 mg/kg Acute Oral LDS0 Rat: 8523 - 8600 mg/kg Acute Oral LDS0 Rabbit: 15800 mg/kg Acute Dermal LD50 Rabbit: 15800 mg/kg Acute Inhalation LC50 Cat: 43.68 mg/l 6.00 Hours Acute Inhalation LC50 Cat: 43.68 mg/l 6.00 Hours Acute Oral LD50 Dog: 8000 mg/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monse: 7300 mg/kg Acute Oral LD50 Ratis 5628 mg/kg Acute Oral LD50 Ratis 5628 mg/kg Acute Other LD50 Guinea pig: 3556 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Monse: 4100 mg/kg Acute Other LD50 Mouse: 4100 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Oral LD50 Rabbit: 20 mg/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rabbit: 53500 mg/kg Acute Other LD50 Rabbit: 5500 mg/kg Acute Other LD50 Rabbit: >= 8000 mg/kg Acute Other LD50 Rabbit: >= 80000 mg/kg			Acute Inhalation LC50 Mouse: 3907 mg/l 6.00 Hours
Acute Oral LD50 Mouse: 1590 mg/kg Acute Oral LD50 Rat: 3523 - 8600 mg/kg Acute Oral LD50 Rat: 3523 - 8600 mg/kg Acute Oral LD50 Ratbit: 15800 mg/kg Acute Inhalation LC50 Cat: 43.68 mg/l 6.00 Hours Acute Inhalation LC50 Ratbit: 15800 mg/kg Acute Oral LD50 Dog: 8000 mg/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Mouse: 7300 mg/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Other LD50 Guinea pig: 3556 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Other LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rabbit: 5800 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rabbit: 5800 mg/kg Acute Other LD50 Rabbit: 5800 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rabbit: 5800 mg/kg Acute Other LD50 Rabbit: 5800 mg/kg Acute Other LD50 Rabbit: 5800 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rabbit: 5800 mg/kg			Acute Inhalation LC50 Rat: 6350 mg/l 4.00 Hours
Acute Oral LD50 Rat: 3523 - 8600 mg/kg Acute Dermal LD50 Rabbit: 15800 mg/kg Acute Inhalation LC50 Cat: 43.68 mg/l 6.00 Hours Acute Inhalation LC50 Rat: 87.5 mg/l 6.00 Hours Acute Oral LD50 Dog: 8000 mg/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Other LD50 Guinea pig: 3556 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Other LD50 Monkey: 300 mg/kg Acute Other LD50 Monkey: 300 mg/kg Acute Oral LD50 Monkes: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Other LD50 Rabbit: 5500 mg/kg Acute Dermal LD50 Rabbit: 5500 mg/kg Acute Other LD50 Rabbit: 5500 mg/kg			Acute Inhalation LCLO Rat: 8000 mg/l 4.00 Hours
Acute Dermal LD50 Rabbit: 15800 mg/kg Acute Inhalation LC50 Cat: 43.68 mg/l 6.00 Hours Acute Inhalation LC50 Rat: 87.5 mg/l 6.00 Hours Acute Inhalation LC50 Rat: 87.5 mg/l 6.00 Hours Acute Oral LD50 Dog: 8000 mg/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Nabbit: 14.4 g/kg Acute Oral LD50 Rat: 5628 mg/kg Acute Oral LD50 Rat: 5628 mg/kg Acute Other LD50 Guinea pig: 3556 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Mose: 4100 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Oral LD50 Rabbit: 5301 mg/l 8.00 Hours Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Other LD50 Mouse: 1929 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Inhalation LC50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Rat: 11700 mg/l 45.00 Minutes Acute Inhalation LC50 Rabbit: 3500 mg/kg Acute Oral LD50 Rat: 11700 mg/l 45.00 Minutes Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Oral LD50 Mouse: 1590 mg/kg
Acute Inhalation LC50 Cat: 43.68 mg/l 6.00 Hours Acute Inhalation LC50 Rat: 87.5 mg/l 6.00 Hours Acute Oral LD50 Dog: 8000 mg/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monkey: 7300 mg/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Other LD50 Guinea pig: 3556 mg/kg Acute Other LD50 Guinea pig: 3556 mg/kg Acute Other LD50 Homster: 8555 mg/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 2131 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Other LD50 Rabbit: 30.1 mg/l 8.00 Hours Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Other LD50 Rabs: 5500 mg/kg Acute Other LD50 Rabbit: 5900 mg/kg Acute Inhalation LC50 Rabbit: 5900 mg/kg Acute Oral LD50 Rabbit: 5900 mg/kg Acute Oral LD50 Rabbit: 5900 mg/kg			Acute Oral LD50 Rat: 3523 - 8600 mg/kg
Acute Inhalation LC50 Rat: 87.5 mg/l 6.00 Hours Acute Oral LD50 Dog: 8000 mg/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Robit: 14.4 g/kg Acute Oral LD50 Rabit: 14.4 g/kg Acute Oral LD50 Rat: 5628 mg/kg Acute Other LD50 Guinea pig: 3556 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Rabibit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Other LD50 Rabibit: 20 mg/kg Acute Other LD50 Rabibit: 20 mg/kg Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Mouse: 1297 mg/kg Acute Oral LD50 Mouse: 1297 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Dermal LD50 Rat: 51000 mg/l 45.00 Minutes Acute Inhalation LC50 Mouse: 11700 mg/l 45.00 Minutes Acute Oral LD50 Rat: 2300 - 3500 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg	Methanol (67-56-1)		Acute Dermal LD50 Rabbit: 15800 mg/kg
Acute Oral LD50 Dog: 8000 mg/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Mouse: 7300 mg/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Oral LD50 Rat: 5628 mg/kg Acute Oral LD50 Guinea pig: 3556 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Mouse: 4100 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Other LD50 Rat: 2131 mg/kg Acute Other LD50 Rat: 2131 mg/kg Acute Oral LD50 Rabbit: 20 mg/kg Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rat: 5500 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rabbit: >= 8000 mg/kg Acute Other LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 2300 - 3500 mg/kg Acute Oral LD50 Rouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Inhalation LC50 Cat: 43.68 mg/l 6.00 Hours
Acute Oral LD50 Monkey: 2 g/kg Acute Oral LD50 Mouse: 7300 mg/kg Acute Oral LD50 Mouse: 7300 mg/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Oral LD50 Rat: 5628 mg/kg Acute Other LD50 Guinea pig: 3556 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Mouse: 4100 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Other LD50 Rat: 2131 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Other LD50 Rat: 5800 mg/kg Acute Other LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Inhalation LC50 Rat: 87.5 mg/l 6.00 Hours
Acute Oral LD50 Mouse: 7300 mg/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Oral LD50 Rabbit: 14.4 g/kg Acute Oral LD50 Rat: 5628 mg/kg Acute Other LD50 Guinea pig: 3556 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Mouse: 4100 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Inhalation LC50 Rat: 50.1 mg/l 8.00 Hours Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rabbit: >= 8000 mg/kg Acute Other LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Oral LD50 Dog: 8000 mg/kg
Acute Oral LD50 Rabbit: 14.4 g/kg Acute Oral LD50 Rat: 5628 mg/kg Acute Other LD50 Guinea pig: 3556 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Mouse: 4100 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Dermal LD50 Rabbit: 20 mg/kg Acute Inhalation LC50 Rat: 50.1 mg/l 8.00 Hours Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Other LD50 Rat: 5800 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rabbit: >= 8000 mg/kg Acute Dermal LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Rat: 11700 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Rat: 2300 - 3500 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Oral LD50 Monkey: 2 g/kg
Acute Oral LD50 Rat: 5628 mg/kg Acute Other LD50 Guinea pig: 3556 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Monkey: 4100 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 2131 mg/kg Acute Other LD50 Ratbit: 2131 mg/kg Acute Other LD50 Ratbit: 20 mg/kg Acute Dermal LD50 Rabbit: 20 mg/kg Acute Inhalation LC50 Rat: 50.1 mg/l 8.00 Hours Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Other LD50 Rat: 5800 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Rat: 11700 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Oral LD50 Mouse: 7300 mg/kg
Acute Other LD50 Guinea pig: 3556 mg/kg Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Mouse: 4100 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Other LD50 Rabbit: 20 mg/kg Acute Inhalation LC50 Rat: 50.1 mg/l 8.00 Hours Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rat: 5500 mg/kg Acute Other LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Oral LD50 Rabbit: 14.4 g/kg
Acute Other LD50 Hamster: 8555 mg/kg Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Mouse: 4100 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rat: 2131 mg/kg Acute Other LD50 Rat: 2131 mg/kg Acute Dermal LD50 Rabbit: 20 mg/kg Acute Inhalation LC50 Rat: 50.1 mg/l 8.00 Hours Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Other LD50 Rat: 5800 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Inhalation LC50 Rat: 11700 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Rat: 2300 - 3500 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Oral LD50 Rat: 5628 mg/kg
Acute Other LD50 Monkey: 3 g/kg Acute Other LD50 Mouse: 4100 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rat: 2131 mg/kg Acute Other LD50 Rat: 2131 mg/kg Acute Dermal LD50 Rabbit: 20 mg/kg Acute Inhalation LC50 Rat: 50.1 mg/l 8.00 Hours Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Other LD50 Rat: 5800 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Other LD50 Guinea pig: 3556 mg/kg
Acute Other LD50 Mouse: 4100 mg/kg Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rat: 2131 mg/kg Acute Other LD50 Rat: 2131 mg/kg Acute Dermal LD50 Rabbit: 20 mg/kg Acute Inhalation LC50 Rat: 50.1 mg/l 8.00 Hours Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Rat: 2300 - 3500 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Other LD50 Hamster: 8555 mg/kg
Acute Other LD50 Rabbit: 1826 mg/kg Acute Other LD50 Rat: 2131 mg/kg Acute Other LD50 Rat: 2131 mg/kg Acute Dermal LD50 Rabbit: 20 mg/kg Acute Inhalation LC50 Rat: 50.1 mg/l 8.00 Hours Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Other LD50 Mouse: 1297 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Rat: 2300 - 3500 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Other LD50 Monkey: 3 g/kg
Acute Other LD50 Rat: 2131 mg/kg Acute Dermal LD50 Rabbit: 20 mg/kg Acute Inhalation LC50 Rat: 50.1 mg/l 8.00 Hours Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Other LD50 Mouse: 1297 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Other LD50 Mouse: 4100 mg/kg
Acute Dermal LD50 Rabbit: 20 mg/kg Acute Inhalation LC50 Rat: 50.1 mg/l 8.00 Hours Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Other LD50 Mouse: 1297 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Dermal LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Other LD50 Rabbit: 1826 mg/kg
Acute Inhalation LC50 Rat: 50.1 mg/l 8.00 Hours Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Other LD50 Mouse: 1297 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Dermal LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg		•	Acute Other LD50 Rat: 2131 mg/kg
Acute Oral LD50 Mouse: 3000 mg/kg Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Other LD50 Mouse: 1297 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rabbit: >= 8000 mg/kg Acute Dermal LD50 Rabbit: >= 8000 mg/l 45.00 Minutes Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg	cetone (67-64-1)		Acute Dermal LD50 Rabbit: 20 mg/kg
Acute Oral LD50 Mouse: 5.2 g/kg Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Other LD50 Mouse: 1297 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rabbit: >= 8000 mg/kg Acute Dermal LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Inhalation LC50 Rat: 50.1 mg/l 8.00 Hours
Acute Oral LD50 Rabbit: 5340 mg/kg Acute Oral LD50 Rat: 5800 mg/kg Acute Other LD50 Mouse: 1297 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Dermal LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Oral LD50 Mouse: 3000 mg/kg
Acute Oral LD50 Rat: 5800 mg/kg Acute Other LD50 Mouse: 1297 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Dermal LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Oral LD50 Mouse: 5.2 g/kg
Acute Other LD50 Mouse: 1297 mg/kg Acute Other LD50 Rat: 5500 mg/kg Acute Dermal LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Oral LD50 Rabbit: 5340 mg/kg
Acute Other LD50 Rat: 5500 mg/kg Acute Dermal LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Oral LD50 Rat: 5800 mg/kg
Acute Dermal LD50 Rabbit: >= 8000 mg/kg Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Other LD50 Mouse: 1297 mg/kg
Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Other LD50 Rat: 5500 mg/kg
Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg	lethyl Ethyl Ketone (78-93-3)		Acute Dermal LD50 Rabbit: >= 8000 mg/kg
Acute Oral LD50 Mouse: 670 mg/kg Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Inhalation LC50 Mouse: 11000 mg/l 45.00 Minutes
Acute Oral LD50 Rat: 2300 - 3500 mg/kg			Acute Inhalation LC50 Rat: 11700 mg/l 4.00 Hours
			Acute Oral LD50 Mouse: 670 mg/kg
ensitization Not available.			Acute Oral LD50 Rat: 2300 - 3500 mg/kg
	Sensitization	Not available.	

Sensitization

US ACGIH Threshold Limit Values: Skin designation

Methanol (CAS 67-56-1)

Can be absorbed through the skin.

Local effects

Components of the product may be absorbed into the body through the skin. Blood disorder may occur after ingestion. Liver toxicity. Irritating to respiratory system. Irritating to eyes. Irritating to

Material name: SUPER 16 PAINT GUN CLEANER 209 Version #: 01 Revision date: 09-09-2009 Print date: 09-09-2009 Chronic effects

Hazardous by OSHA criteria. Prolonged inhalation may be harmful. This product may be harmful if

it is absorbed through the skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.

Prolonged exposure may cause chronic effects.

Subchronic effects

Blood disorder may occur after prolonged inhalation. Blood disorder may occur after ingestion.

Blood disorder may occur after prolonged skin contact. Kidney injury may occur.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens

2-Butoxyethanol (CAS 111-76-2)

Group A3 Confirmed animal carcinogen with unknown relevance to

humans.

Acetone (CAS 67-64-1) Toluene (CAS 108-88-3) Group A4 Not classifiable as a human carcinogen. Group A4 Not classifiable as a human carcinogen.

Group A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2)

Toluene (CAS 108-88-3)

Group 3 Not classifiable as to carcinogenicity to humans. Group 3 Not classifiable as to carcinogenicity to humans.

Xylene (Mixed Isomers) (CAS 1330-20-7)

Xylene (Mixed Isomers) (CAS 1330-20-7)

Group 3 Not classifiable as to carcinogenicity to humans.

Skin corrosion/irritation

Not available.

Epidemiology

Hazardous by OSHA criteria.

Mutagenicity

Not available.

Neurological effects

Hazardous by OSHA criteria.

Reproductive effects

Components in this product have been shown to cause birth defects and reproductive disorders in

laboratory animals.

Teratogenicity

Components in this product have been shown to cause birth defects and reproductive disorders in

laboratory animals.

Further information

Symptoms may be delayed.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Components	Test Results
2-Methyl-4-Pentanone (108-10-1)	LC50 Fathead minnow (Pimephales promelas): 492 - 593 mg/l 96.00 Hours
Toluene (108-88-3)	EC50 Water flea (Daphnia magna): 5.46 - 9.83 mg/l 48.00 Hours
	LC50 Coho salmon, silver salmon (Oncorhynchus kisutch): 5.5 mg/l 96.00 Hours
2-Butoxyethanol (111-76-2)	LC50 Inland silverside (Menidia beryllina): 1250 mg/l 96.00 Hours
Acetic Acid, Butyl Ester (123-86-4)	LC50 Fathead minnow (Pimephales promelas): 17 - 19 mg/l 96.00 Hours
Xylene (Mixed Isomers) (1330-20-7)	EC50 Water flea (Daphnia magna): 0.78 - 2.51 mg/l 48.00 Hours
	LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss): 2.661 - 4.093 mg/l 96.00 Hours
Methanol (67-56-1)	EC50 Water flea (Daphnia magna): >= 10000 mg/l 48.00 Hours
	LC50 Fathead minnow (Pimephales promelas): >= 100 mg/l 96.00 Hours
Acetone (67-64-1)	EC50 Water flea (Daphnia magna): 21.6 - 23.9 mg/l 48.00 Hours
	LC50 Fathead minnow (Pimephales promelas): >= 100 mg/l 96.00 Hours

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Components **Test Results**

Methyl Ethyl Ketone (78-93-3) EC50 Water flea (Daphnia magna): 4025 - 6440 mg/l 48.00

LC50 Sheepshead minnow (Cyprinodon variegatus): >= 400

mg/l 96.00 Hours

Ecotoxicity

Components of this product are hazardous to aquatic life.

Environmental effects

Harmful to aquatic life.

Persistence and degradability Not available.

13. DISPOSAL CONSIDERATIONS

Waste codes

US RCRA Hazardous Waste U List: Reference

2-Methyl-4-Pentanone (CAS 108-10-1)	U161
Acetone (CAS 67-64-1)	U002
Methanol (CAS 67-56-1)	U154
Methyl Ethyl Ketone (CAS 78-93-3)	U159
Toluene (CAS 108-88-3)	U220
Xylene (Mixed Isomers) (CAS 1330-20-7)	U239

Disposal instructions

Dispose of contents/container in accordance with local/regional/national/international regulations.

14. TRANSPORTATION INFORMATION

DOT

Basic shipping requirements:

Proper shipping name

Paint Related Material

Hazard class

UN number

UN1263

Packing group

Π

Additional information:

ERG number **ERG** code

128 128

15. REGULATORY INFORMATION

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard,

29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

2-Butoxyethanol (CAS 111-76-2)	1.0 % N23
2-Methyl-4-Pentanone (CAS 108-10-1)	1.0 %
Methanol (CAS 67-56-1)	1.0 %
Toluene (CAS 108-88-3)	1.0 %
Xylene (Mixed Isomers) (CAS 1330-20-7)	1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

2-Butoxyethanol (CAS 111-76-2)	Listed. N2:
2-Methyl-4-Pentanone (CAS 108-10-1)	Listed.
Methanol (CAS 67-56-1)	Listed.
Toluene (CAS 108-88-3)	Listed.
Xylene (Mixed Isomers) (CAS 1330-20-7)	Listed.

US TSCA Section 12(b) Export Notification: Export Notification requirement/De minimis concentration

Xylene (Mixed Isomers) (CAS 1330-20-7) 1.0 % One-Time Export Notification only.

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CERCLA (Superfund) reportable quantity

Toluene: 1000.0000 Acetone: 5000.0000

2-Methyl-4-Pentanone: 5000.0000 Acetic Acid, Butyl Ester: 5000.0000

Methanol: 5000.0000

Methyl Ethyl Ketone: 5000.0000 Xylene (Mixed Isomers): 100.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely

hazardous substance

Yes

Section 311 hazardous chemical

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

WARNING: This product contains a chemical known to the State of California to cause birth

defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Toluene (CAS 108-88-3)

Listed.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Toluene (CAS 108-88-3)

Listed: January 1, 1991 Developmental toxin.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

2-Butoxyethanol (CAS 111-76-2) 500 LBS 2-Methyl-4-Pentanone (CAS 108-10-1) 500 LBS Methanol (CAS 67-56-1) 500 LBS Toluene (CAS 108-88-3) 500 LBS Xylene (Mixed Isomers) (CAS 1330-20-7) 500 LBS

US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-Butoxyethanol (CAS 111-76-2) Listed. 2-Methyl-4-Pentanone (CAS 108-10-1) Listed. Acetic Acid, Butyl Ester (CAS 123-86-4) Listed. Acetone (CAS 67-64-1) Listed. Methanol (CAS 67-56-1) Listed. Methyl Ethyl Ketone (CAS 78-93-3) Listed. Toluene (CAS 108-88-3) Listed. Xylene (Mixed Isomers) (CAS 1330-20-7) Listed.

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16. OTHER INFORMATION

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Flammability: 3

Physical hazard: 0

NFPA ratings

Health: 2 Flammability: 3

Instability: 0

Disclaimer

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Issue date

09-09-2009

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