

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** Baking Lacquer, Gloss Black Aerosol  
**Version #** 01  
**Issue date** 08-13-2013  
**CAS #** Mixture  
**Product code** 083-046-802  
**Manufacturer information** BROWNELLS, INC.  
200 South Front Street  
Montezuma, Iowa 50171 United States  
www.brownells.com  
(641) 623-5401  
24 hour Emergency Number, (352)-323-3500

## 2. Hazards Identification

**Emergency overview** DANGER

Flammable gas. CONTENTS UNDER PRESSURE.  
Pressurized container may explode when exposed to heat or flame.

May be fatal if swallowed or inhaled. Harmful in contact with eyes. Cancer hazard. Can cause adverse reproductive effects - such as birth defects, miscarriages, or infertility. Prolonged exposure may cause chronic effects.

**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**

Eye contact may result in corneal injury. Contact may irritate or burn eyes. Do not get this material in contact with eyes.

**Skin**

Irritating to skin. Avoid contact with the skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

**Inhalation**

May cause cancer by inhalation. Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Irritating to respiratory system. Prolonged inhalation may be harmful. Avoid breathing dust/fume/gas/mist/vapors/spray.

**Ingestion**

Exposure by ingestion of an aerosol is unlikely. Components of the product may be absorbed into the body by ingestion. Do not ingest.

**Target organs**

Blood. Central nervous system. Eyes. Gastro-intestinal tract. Kidneys. Liver. Respiratory system. Skin.

**Chronic effects**

Unconsciousness. Conjunctiva. Edema. Jaundice. Cyanosis (blue tissue condition, nails, lips, and/or 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. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

**Signs and symptoms**

Unconsciousness. Corneal damage. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or skin). Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice. Conjunctivitis. Proteinuria. Irritating to mouth, throat, and stomach. Skin irritation. Defatting of the skin. Rash.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
DIMETHYL ETHER	115-10-6	20 - 40
METHYL ETHYL KETONE	78-93-3	10 - 20
2-BUTOXYETHANOL	111-76-2	2.5 - 10

Components	CAS #	Percent
ETHYL BENZENE	100-41-4	2.5 - 10
ISOPROPYL ALCOHOL	67-63-0	2.5 - 10
METHYLISOBUTYL KETONE	108-10-1	2.5 - 10
M-XYLENE	108-38-3	2.5 - 10
N-BUTYL ACETATE	123-86-4	2.5 - 10
N-BUTYL ALCOHOL	71-36-3	2.5 - 10
NITROCELLULOSE	9004-70-0	2.5 - 10
O-XYLENE	95-47-6	2.5 - 10
PROPANE	74-98-6	2.5 - 10
P-XYLENE	106-42-3	2.5 - 10
TOLUENE	108-88-3	2.5 - 10
XYLENES (O-, M-, P- ISOMERS)	1330-20-7	2.5 - 10
CARBON BLACK	1333-86-4	0.1 - 1
Other components below reportable levels		0.1 - 1

#### 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 immediately.

###### Skin contact

Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. Get medical attention if irritation develops and persists. For minor skin contact, avoid spreading material on unaffected skin.

###### Inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician if symptoms develop or persist.

###### Ingestion

In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

##### Notes to physician

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

##### General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. IF exposed or concerned: Get medical advice/attention. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

#### 5. Fire Fighting Measures

##### Flammable properties

Flammable by OSHA criteria. Heat may cause the containers to explode. Vapors may travel considerable distance to a source of ignition and flash back.

##### Extinguishing media

###### Suitable extinguishing media

Water. Water spray. Water fog. Foam. Dry powder. Carbon dioxide (CO<sub>2</sub>). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

###### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

##### Protection of firefighters

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

Pressurized container may explode when exposed to heat or flame. Fire may produce irritating, corrosive and/or toxic gases.

**Protective equipment and precautions for firefighters**

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.

**Fire fighting equipment/instructions**

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

**6. Accidental Release Measures**

**Personal precautions**

Remove all possible sources of ignition in the surrounding area. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Use appropriate containment to avoid environmental contamination.

**Methods for containment**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Prevent entry into waterways, sewer, basements or confined areas.

**Methods for cleaning up**

Eliminate all ignition sources if safe to do so. Isolate area until gas has dispersed. Following product recovery, flush area with water.

**7. Handling and Storage**

**Handling**

Vapors may form explosive mixtures with air. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not re-use empty containers. Do not get this material in contact with eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid prolonged exposure. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Wash thoroughly after handling. Avoid release to the environment.

**Storage**

Keep out of the reach of children. Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Avoid exposure to long periods of sunlight. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Keep away from food, drink and animal feedingstuffs.

**8. Exposure Controls / Personal Protection**

**Occupational exposure limits**

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
CARBON BLACK (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
N-BUTYL ACETATE (CAS 123-86-4)	STEL	200 ppm	
	TWA	150 ppm	
N-BUTYL ALCOHOL (CAS 71-36-3)	TWA	20 ppm	
PROPANE (CAS 74-98-6)	TWA	1000 ppm	

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
CARBON BLACK (CAS 1333-86-4)	PEL	3.5 mg/m3
ISOPROPYL ALCOHOL (CAS 67-63-0)	PEL	980 mg/m3
		400 ppm
N-BUTYL ACETATE (CAS 123-86-4)	PEL	710 mg/m3
		150 ppm

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
N-BUTYL ALCOHOL (CAS 71-36-3)	PEL	300 mg/m3
PROPANE (CAS 74-98-6)	PEL	100 ppm 1800 mg/m3 1000 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
CARBON BLACK (CAS 1333-86-4)	TWA	0.1 mg/m3
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	1225 mg/m3
N-BUTYL ACETATE (CAS 123-86-4)	TWA	500 ppm 980 mg/m3 400 ppm
N-BUTYL ACETATE (CAS 123-86-4)	STEL	950 mg/m3
N-BUTYL ALCOHOL (CAS 71-36-3)	TWA	200 ppm 710 mg/m3 150 ppm
N-BUTYL ALCOHOL (CAS 71-36-3)	Ceiling	150 mg/m3
PROPANE (CAS 74-98-6)	TWA	50 ppm 1800 mg/m3 1000 ppm

**US. Workplace Environmental Exposure Level (WEEL) Guides**

Components	Type	Value
DIMETHYL ETHER (CAS 115-10-6)	TWA	1880 mg/m3 1000 ppm

**Exposure guidelines****US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

2-BUTOXYETHANOL (CAS 111-76-2) Can be absorbed through the skin.

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Eye / face protection** Chemical goggles are recommended. Eye wash fountain is recommended.

**Skin protection** Wear appropriate chemical resistant clothing. Chemical resistant gloves.

**Respiratory protection** If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

**General hygiene considerations** When using do not smoke. Do not get in 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**

<b>Appearance</b>	Black coating
<b>Physical state</b>	Gas.
<b>Form</b>	Aerosol.
<b>Color</b>	Gloss Black.
<b>Odor</b>	Paint-like
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Boiling point</b>	> 174.92 °F (> 79.4 °C)
<b>Melting point/Freezing point</b>	-122.8 °F (-86 °C)
<b>Solubility (water)</b>	Not available.
<b>Relative density</b>	Not available.

<b>Flash point</b>	-155.20 °F (-104.00 °C) (propellant)
<b>Flammability limits in air, upper, % by volume</b>	12.7 %
<b>Flammability limits in air, lower, % by volume</b>	1 %
<b>Auto-ignition temperature</b>	649.4 °F (343 °C)
<b>VOC</b>	5.713 lb/gal
<b>Percent volatile</b>	90 % w/w
<b>Other data</b>	
<b>Density</b>	6.39 lb/gal
<b>Flammability (solid, gas)</b>	Flammable gas.
<b>Flammability class</b>	Flammable IB estimated

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable under normal temperature conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	Strong oxidizing agents. Strong acids. Ammonia. Amines. Isocyanates. Caustics. Halogens. Acetaldehyde. Alkaline metals. Alkaline earth metals. Aluminum. Chlorine. Dichlorohydroxyacetone. Ethylene Oxide. Lithium aluminum hydride. Hydrogen peroxide. Nitrates. Nitric acid Nitrogen tetroxide. Perchloric and permonosulfuric acids. Potassium tert-butoxide. Powdered metal salts. Pyridines. Uranium hexafluoride. Sulfur dichloride. Tetranitromethane. Trinitromethane.
<b>Hazardous decomposition products</b>	Carbon oxides. Acetic acid. Aldehydes. Explosive peroxides may be formed depending on fire conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

## 11. Toxicological Information

### Toxicological data

Product	Species	Test Results
Baking Lacquer, Gloss Black Aerosol (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	5630 mg/kg
<i>Inhalation</i>		
LC50	Mouse	27078.2559 mg/l, 7 Hours, estimated 995.2961 mg/l, 30 Minutes, estimated
<i>Oral</i>		
LD50	Mouse	1607 mg/kg
	Rabbit	6.3045 g/kg
	Rat	4411 mg/kg
<b>Components</b>		
2-BUTOXYETHANOL (CAS 111-76-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	400 mg/kg
<i>Inhalation</i>		
LC50	Mouse	700 mg/l, 7 Hours
	Rat	450 mg/l, 4 Hours
<i>Oral</i>		
LD50	Guinea pig	1.2 g/kg
	Mouse	1.2 g/kg
	Rabbit	0.32 g/kg

Components	Species	Test Results
	Rat	560 mg/kg
CARBON BLACK (CAS 1333-86-4)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 8000 mg/kg
DIMETHYL ETHER (CAS 115-10-6)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Mouse	494.36 mg/l, 15 Minutes 385.94 mg/l, 30 Minutes
	Rat	308.5 mg/l, 4 Hours
ETHYL BENZENE (CAS 100-41-4)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	17800 mg/kg
<i>Oral</i>		
LD50	Rat	3500 mg/kg
ISOPROPYL ALCOHOL (CAS 67-63-0)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	12800 mg/kg
<i>Oral</i>		
LD50	Mouse	3600 mg/kg
	Rabbit	5.03 g/kg
	Rat	4.7 g/kg
METHYL ETHYL KETONE (CAS 78-93-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 8000 mg/kg
<i>Inhalation</i>		
LC50	Mouse	11000 mg/l, 45 Minutes
	Rat	11700 mg/l, 4 Hours
<i>Oral</i>		
LD50	Mouse	670 mg/kg
	Rat	2300 - 3500 mg/kg
METHYLISOBUTYL KETONE (CAS 108-10-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 16000 mg/kg
<i>Inhalation</i>		
LC50	Rat	8.2 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	2080 mg/kg

Components	Species	Test Results
M-XYLENE (CAS 108-38-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	12100 mg/kg
<i>Inhalation</i>		
LC50	Mouse	5300 mg/l, 6 Hours
LCL0	Rat	8000 mg/l, 4 Hours
<i>Oral</i>		
LD50	Mouse	1590 mg/kg
	Rat	4300 mg/kg
N-BUTYL ACETATE (CAS 123-86-4)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Wistar rat	160 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	14130 mg/kg
		14000 mg/kg
N-BUTYL ALCOHOL (CAS 71-36-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	3400 mg/kg
<i>Inhalation</i>		
LC50	Rat	8000 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	790 mg/kg
O-XYLENE (CAS 95-47-6)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 43 g/kg
<i>Inhalation</i>		
LC50	Mouse	4600 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
LCL0	Rat	8000 mg/l, 4 Hours
<i>Oral</i>		
LD50	Mouse	1590 mg/kg
	Rat	4300 mg/kg
PROPANE (CAS 74-98-6)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Rat	> 1442.847 mg/l, 15 Minutes
P-XYLENE (CAS 106-42-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 43 g/kg
<i>Inhalation</i>		
LC50	Mouse	3900 mg/l, 6 Hours

Components	Species	Test Results
LCL0	Rat	8000 mg/l, 4 Hours
<i>Oral</i>		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg
TOLUENE (CAS 108-88-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	12124 mg/kg 14.1 ml/kg
<i>Inhalation</i>		
LC50	Mouse	5320 mg/l, 8 Hours 400 mg/l, 24 Hours
	Rat	26700 mg/l, 1 Hours 12200 mg/l, 2 Hours
<i>Oral</i>		
LD50	Rat	2.6 g/kg
XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 43 g/kg
<i>Inhalation</i>		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
<i>Oral</i>		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg

\* Estimates for product may be based on additional component data not shown.

**Local effects** Blood disorder may occur after ingestion. Ingestion or inhalation of high concentrations may cause injuries to gastrointestinal tract, liver, kidneys and central nervous system. Vapors may cause dizziness or asphyxiation without warning.

**Chronic effects** Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.

**Carcinogenicity** Hazardous by OSHA criteria. Risk of cancer cannot be excluded with prolonged exposure.

**ACGIH Carcinogens**

2-BUTOXYETHANOL (CAS 111-76-2)	A3 Confirmed animal carcinogen with unknown relevance to humans.
CARBON BLACK (CAS 1333-86-4)	A3 Confirmed animal carcinogen with unknown relevance to humans.
ETHYL BENZENE (CAS 100-41-4)	A3 Confirmed animal carcinogen with unknown relevance to humans.
ISOPROPYL ALCOHOL (CAS 67-63-0)	A4 Not classifiable as a human carcinogen.
METHYLISOBUTYL KETONE (CAS 108-10-1)	A3 Confirmed animal carcinogen with unknown relevance to humans.
M-XYLENE (CAS 108-38-3)	A4 Not classifiable as a human carcinogen.
O-XYLENE (CAS 95-47-6)	A4 Not classifiable as a human carcinogen.
P-XYLENE (CAS 106-42-3)	A4 Not classifiable as a human carcinogen.
TOLUENE (CAS 108-88-3)	A4 Not classifiable as a human carcinogen.
XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7)	A4 Not classifiable as a human carcinogen.



## IARC Monographs. Overall Evaluation of Carcinogenicity

2-BUTOXYETHANOL (CAS 111-76-2)	3 Not classifiable as to carcinogenicity to humans.
CARBON BLACK (CAS 1333-86-4)	2B Possibly carcinogenic to humans.
ETHYL BENZENE (CAS 100-41-4)	2B Possibly carcinogenic to humans.
METHYLISOBUTYL KETONE (CAS 108-10-1)	2B Possibly carcinogenic to humans.
M-XYLENE (CAS 108-38-3)	3 Not classifiable as to carcinogenicity to humans.
O-XYLENE (CAS 95-47-6)	3 Not classifiable as to carcinogenicity to humans.
P-XYLENE (CAS 106-42-3)	3 Not classifiable as to carcinogenicity to humans.
TOLUENE (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.
XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.

<b>Skin corrosion/irritation</b>	Irritating to skin.
<b>Neurological effects</b>	Hazardous by OSHA criteria.
<b>Reproductive effects</b>	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.
<b>Teratogenicity</b>	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.
<b>Further information</b>	Symptoms may be delayed.

## 12. Ecological Information

### Ecotoxicological data

Product		Species	Test Results
Baking Lacquer, Gloss Black Aerosol (CAS Mixture)			
Crustacea	EC50	Daphnia	195 mg/l, 24 hours 110 mg/l, 48 hours
	LC50	Daphnia	1007 mg/l, 24 hours 555 mg/l, 48 hours 415 mg/l, 96 hours
Fish	LC50	Fish	719 mg/l, 48 hours 629 mg/l, 24 hours 363 mg/l, 96 hours 108 mg/l, 7 days

\* Estimates for product may be based on additional component data not shown.

<b>Ecotoxicity</b>	Components of this product are hazardous to aquatic life.
<b>Environmental effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
<b>Persistence and degradability</b>	Not available.
<b>Bioaccumulation / Accumulation</b>	

## 13. Disposal Considerations

### Waste codes

#### US RCRA Hazardous Waste U List: Reference

METHYL ETHYL KETONE (CAS 78-93-3)	U159
METHYLISOBUTYL KETONE (CAS 108-10-1)	U161
M-XYLENE (CAS 108-38-3)	U239
N-BUTYL ALCOHOL (CAS 71-36-3)	U031
O-XYLENE (CAS 95-47-6)	U239
P-XYLENE (CAS 106-42-3)	U239
TOLUENE (CAS 108-88-3)	U220
XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7)	U239

<b>Disposal instructions</b>	Dispose of in accordance with current, applicable local, state, and federal regulations.
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## 14. Transport Information

### DOT

#### Basic shipping requirements:

**UN number** UN1950  
**Proper shipping name** Aerosols, flammable, n.o.s. (DIMETHYL ETHER, PROPANE)  
**Hazard class** 2.1  
**Special precautions** Read safety instructions, MSDS and emergency procedures before handling.

#### Additional information:

**Special provisions** N82  
**Packaging exceptions** 306  
**Packaging non bulk** 304  
**Packaging bulk** None

### IATA

**UN number** UN1950  
**UN proper shipping name** Aerosols, flammable  
**Transport hazard class(es)** 2.1  
**ERG code** 10L

### IMDG

**UN number** UN1950  
**UN proper shipping name** AEROSOLS, MARINE POLLUTANT  
**Transport hazard class(es)** 2  
**Environmental hazards**  
**Marine pollutant** Yes  
**EmS** F-D, S-U

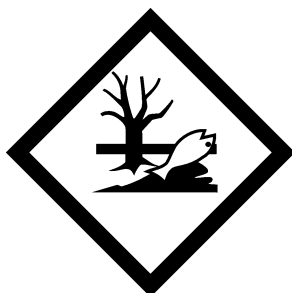
### DOT



### IATA; IMDG



### Marine pollutant



## 15. Regulatory Information

### US federal regulations

All components are on the U.S. EPA TSCA Inventory List.  
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard,  
29 CFR 1910.1200.

### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

METHYL ETHYL KETONE (CAS 78-93-3)	145 KG_W
TOLUENE (CAS 108-88-3)	159 KG_W
METHYL ETHYL KETONE (CAS 78-93-3)	50 GALLONS_V
TOLUENE (CAS 108-88-3)	50 GALLONS_V
METHYL ETHYL KETONE (CAS 78-93-3)	6714
METHYLISOBUTYL KETONE (CAS 108-10-1)	6715
TOLUENE (CAS 108-88-3)	6594

### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

METHYL ETHYL KETONE (CAS 78-93-3)	35 %WV
METHYLISOBUTYL KETONE (CAS 108-10-1)	35 %WV
TOLUENE (CAS 108-88-3)	35 %WV

### DEA Exempt Chemical Mixtures Code Number

METHYL ETHYL KETONE (CAS 78-93-3)	6714
METHYLISOBUTYL KETONE (CAS 108-10-1)	6715
TOLUENE (CAS 108-88-3)	594

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

2-BUTOXYETHANOL (CAS 111-76-2)	1.0 % N230
ETHYL BENZENE (CAS 100-41-4)	0.1 %
ISOPROPYL ALCOHOL (CAS 67-63-0)	1.0 %
METHYLISOBUTYL KETONE (CAS 108-10-1)	1.0 %
M-XYLENE (CAS 108-38-3)	1.0 %
N-BUTYL ALCOHOL (CAS 71-36-3)	1.0 %
O-XYLENE (CAS 95-47-6)	1.0 %
P-XYLENE (CAS 106-42-3)	1.0 %
TOLUENE (CAS 108-88-3)	1.0 %
XYLENES (O-, M-, P- 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. N230
ETHYL BENZENE (CAS 100-41-4)	Listed.
ISOPROPYL ALCOHOL (CAS 67-63-0)	Listed.
METHYLISOBUTYL KETONE (CAS 108-10-1)	Listed.
M-XYLENE (CAS 108-38-3)	Listed.
N-BUTYL ALCOHOL (CAS 71-36-3)	Listed.
O-XYLENE (CAS 95-47-6)	Listed.
P-XYLENE (CAS 106-42-3)	Listed.
TOLUENE (CAS 108-88-3)	Listed.
XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7)	Listed.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA (Superfund) reportable quantity

DIMETHYL ETHER: 100  
METHYL ETHYL KETONE: 5000  
ETHYL BENZENE: 1000  
ISOPROPYL ALCOHOL: 100  
METHYLISOBUTYL KETONE: 5000  
M-XYLENE: 1000  
N-BUTYL ACETATE: 5000  
N-BUTYL ALCOHOL: 5000  
NITROCELLULOSE: 100  
O-XYLENE: 1000  
PROPANE: 100  
P-XYLENE: 100  
TOLUENE: 1000  
XYLENES (O-, M-, P- ISOMERS): 100

## 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

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** No

### 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)	No
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 cancer and birth defects or other reproductive harm.

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

CARBON BLACK (CAS 1333-86-4) Listed: February 21, 2003 Carcinogenic.  
ETHYL BENZENE (CAS 100-41-4) Listed: June 11, 2004 Carcinogenic.  
METHYLISOBUTYL KETONE (CAS 108-10-1) Listed: November 4, 2011 Carcinogenic.

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

TOLUENE (CAS 108-88-3) Listed: January 1, 1991 Developmental toxin.

#### US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

TOLUENE (CAS 108-88-3) Listed: August 7, 2009 Female reproductive toxin.

#### US - New Jersey RTK - Substances: Listed substance

2-BUTOXYETHANOL (CAS 111-76-2) Listed.  
CARBON BLACK (CAS 1333-86-4) Listed.  
DIMETHYL ETHER (CAS 115-10-6) Listed.  
ETHYL BENZENE (CAS 100-41-4) Listed.  
ISOPROPYL ALCOHOL (CAS 67-63-0) Listed.  
METHYL ETHYL KETONE (CAS 78-93-3) Listed.  
METHYLISOBUTYL KETONE (CAS 108-10-1) Listed.  
M-XYLENE (CAS 108-38-3) Listed.  
N-BUTYL ACETATE (CAS 123-86-4) Listed.  
N-BUTYL ALCOHOL (CAS 71-36-3) Listed.  
NITROCELLULOSE (CAS 9004-70-0) Listed.  
O-XYLENE (CAS 95-47-6) Listed.  
PROPANE (CAS 74-98-6) Listed.  
P-XYLENE (CAS 106-42-3) Listed.  
TOLUENE (CAS 108-88-3) Listed.  
XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7) Listed.

#### US. Massachusetts RTK - Substance List

2-BUTOXYETHANOL (CAS 111-76-2)  
CARBON BLACK (CAS 1333-86-4)  
DIMETHYL ETHER (CAS 115-10-6)

ETHYL BENZENE (CAS 100-41-4)  
ISOPROPYL ALCOHOL (CAS 67-63-0)  
METHYL ETHYL KETONE (CAS 78-93-3)  
METHYLISOBUTYL KETONE (CAS 108-10-1)  
M-XYLENE (CAS 108-38-3)  
N-BUTYL ACETATE (CAS 123-86-4)  
N-BUTYL ALCOHOL (CAS 71-36-3)  
NITROCELLULOSE (CAS 9004-70-0)  
O-XYLENE (CAS 95-47-6)  
PROPANE (CAS 74-98-6)  
P-XYLENE (CAS 106-42-3)  
TOLUENE (CAS 108-88-3)  
XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7)

**US. Pennsylvania RTK - Hazardous Substances**

2-BUTOXYETHANOL (CAS 111-76-2)	Listed.
CARBON BLACK (CAS 1333-86-4)	Listed.
DIMETHYL ETHER (CAS 115-10-6)	Listed.
ETHYL BENZENE (CAS 100-41-4)	Listed.
ISOPROPYL ALCOHOL (CAS 67-63-0)	Listed.
METHYL ETHYL KETONE (CAS 78-93-3)	Listed.
METHYLISOBUTYL KETONE (CAS 108-10-1)	Listed.
M-XYLENE (CAS 108-38-3)	Listed.
N-BUTYL ACETATE (CAS 123-86-4)	Listed.
N-BUTYL ALCOHOL (CAS 71-36-3)	Listed.
NITROCELLULOSE (CAS 9004-70-0)	Listed.
O-XYLENE (CAS 95-47-6)	Listed.
PROPANE (CAS 74-98-6)	Listed.
P-XYLENE (CAS 106-42-3)	Listed.
TOLUENE (CAS 108-88-3)	Listed.
XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7)	Listed.

**US. Rhode Island RTK**

2-BUTOXYETHANOL (CAS 111-76-2)  
CARBON BLACK (CAS 1333-86-4)  
DIMETHYL ETHER (CAS 115-10-6)  
ETHYL BENZENE (CAS 100-41-4)  
ISOPROPYL ALCOHOL (CAS 67-63-0)  
METHYL ETHYL KETONE (CAS 78-93-3)  
METHYLISOBUTYL KETONE (CAS 108-10-1)  
M-XYLENE (CAS 108-38-3)  
N-BUTYL ACETATE (CAS 123-86-4)  
N-BUTYL ALCOHOL (CAS 71-36-3)  
NITROCELLULOSE (CAS 9004-70-0)  
O-XYLENE (CAS 95-47-6)  
PROPANE (CAS 74-98-6)  
P-XYLENE (CAS 106-42-3)  
TOLUENE (CAS 108-88-3)  
XYLENES (O-, M-, P- ISOMERS) (CAS 1330-20-7)

## 16. Other Information

**Further information**

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

**HMIS® ratings**

Health: 3  
Flammability: 4  
Physical hazard: 0

**NFPA ratings**

Health: 3  
Flammability: 4  
Instability: 0

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.