

SAFETY DATA SHEET

1. Identification

Product identifier	EPA Method 524.4 Purgeable Organic Compounds Mixture	
Other means of identification		
Item	M-EPA5244POCN1	
Recommended use	For Laboratory Use Only	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Manufacturer		
Company name	Chem Service, Inc.	
Address	660 Tower Lane West Chester, PA 19380 United States	
Telephone	Toll Free	800-452-9994
	Direct	610-692-3026
Website	www.chemservice.com	
E-mail	info@chemservice.com	
Emergency phone number	Chemtrec US	800-424-9300
	Chemtrec outside US	+1 703-527-3887

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Acute toxicity, oral	Category 3
	Acute toxicity, dermal	Category 3
	Acute toxicity, inhalation	Category 3
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity	Category 1B
	Specific target organ toxicity, single exposure	Category 1
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Danger
Hazard statement	Highly flammable liquid and vapor. Toxic if swallowed. Toxic in contact with skin. Causes serious eye irritation. Toxic if inhaled. May cause drowsiness or dizziness. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response	If swallowed: Immediately call a poison center/doctor. Rinse mouth. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor. If eye irritation persists: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
Supplemental information	94.79% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 94.79% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Methanol		67-56-1	94.79
Water		7732-18-5	4.97
Hydroquinone		123-31-9	0.02
1,4-Dichloro-2-butene cis & trans		764-41-0	0.01
1-Chlorobutane		109-69-3	0.01
2-Butanone		78-93-3	0.01
2-Hexanone		591-78-6	0.01
2-Nitropropane		79-46-9	0.01
4-Methyl-2-pentanone		108-10-1	0.01
Acetone		67-64-1	0.01
Acrylonitrile		107-13-1	0.01
Carbon disulfide		75-15-0	0.01
Chloroacetonitrile		107-14-2	0.01
Ethyl ether		60-29-7	0.01
Ethyl methacrylate		97-63-2	0.01
Hexachloroethane		67-72-1	0.01
Methacrylonitrile		126-98-7	0.01
Methyl acrylate		96-33-3	0.01
Methyl iodide		74-88-4	0.01
Methyl methacrylate		80-62-6	0.01
Nitrobenzene		98-95-3	0.01
Pentachloroethane		76-01-7	0.01
Propionitrile		107-12-0	0.01
tert-Butyl methyl ether		1634-04-4	0.01
Tetrahydrofuran		109-99-9	0.01

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 poison center or doctor/physician.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
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 and persists.

Ingestion	Call a physician or poison control center immediately. Rinse mouth. 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.
Most important symptoms/effects, acute and delayed	May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. 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. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
 5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Alcohol resistant foam. Carbon dioxide (CO ₂). 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.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
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.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapor.
 6. Accidental release measures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. 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. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapors. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Acrylonitrile (CAS 107-13-1)	STEL	10 ppm
	TWA	2 ppm

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

Components	Type	Value
2-Butanone (CAS 78-93-3)	PEL	590 mg/m ³
		200 ppm
2-Hexanone (CAS 591-78-6)	PEL	410 mg/m ³
		100 ppm
2-Nitropropane (CAS 79-46-9)	PEL	90 mg/m ³
		25 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	PEL	410 mg/m ³
		100 ppm
Acetone (CAS 67-64-1)	PEL	2400 mg/m ³
		1000 ppm
Ethyl ether (CAS 60-29-7)	PEL	1200 mg/m ³
		400 ppm
Hexachloroethane (CAS 67-72-1)	PEL	10 mg/m ³
		1 ppm

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

Components	Type	Value
Hydroquinone (CAS 123-31-9)	PEL	2 mg/m3
Methanol (CAS 67-56-1)	PEL	260 mg/m3 200 ppm
Methyl acrylate (CAS 96-33-3)	PEL	35 mg/m3 10 ppm
Methyl iodide (CAS 74-88-4)	PEL	28 mg/m3 5 ppm
Methyl methacrylate (CAS 80-62-6)	PEL	410 mg/m3 100 ppm
Nitrobenzene (CAS 98-95-3)	PEL	5 mg/m3 1 ppm
Tetrahydrofuran (CAS 109-99-9)	PEL	590 mg/m3 200 ppm

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
Carbon disulfide (CAS 75-15-0)	Ceiling	30 ppm
	TWA	20 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
1,4-Dichloro-2-butene cis & trans (CAS 764-41-0)	TWA	0.005 ppm
2-Butanone (CAS 78-93-3)	STEL	300 ppm
	TWA	200 ppm
2-Hexanone (CAS 591-78-6)	STEL	10 ppm
	TWA	5 ppm
2-Nitropropane (CAS 79-46-9)	TWA	10 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	75 ppm
	TWA	20 ppm
Acetone (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
Acrylonitrile (CAS 107-13-1)	TWA	2 ppm
Carbon disulfide (CAS 75-15-0)	TWA	1 ppm
Ethyl ether (CAS 60-29-7)	STEL	500 ppm
	TWA	400 ppm
Hexachloroethane (CAS 67-72-1)	TWA	1 ppm
Hydroquinone (CAS 123-31-9)	TWA	1 mg/m3
Methacrylonitrile (CAS 126-98-7)	TWA	1 ppm
Methanol (CAS 67-56-1)	STEL	250 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
	TWA	200 ppm
Methyl acrylate (CAS 96-33-3)	TWA	2 ppm
Methyl iodide (CAS 74-88-4)	TWA	2 ppm
Methyl methacrylate (CAS 80-62-6)	STEL	100 ppm
	TWA	50 ppm
Nitrobenzene (CAS 98-95-3)	TWA	1 ppm
tert-Butyl methyl ether (CAS 1634-04-4)	TWA	50 ppm
Tetrahydrofuran (CAS 109-99-9)	STEL	100 ppm
	TWA	50 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
2-Butanone (CAS 78-93-3)	STEL	885 mg/m3
		300 ppm
	TWA	590 mg/m3
2-Hexanone (CAS 591-78-6)		200 ppm
	TWA	4 mg/m3
		1 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	300 mg/m3
		75 ppm
	TWA	205 mg/m3
Acetone (CAS 67-64-1)		50 ppm
	TWA	590 mg/m3
		250 ppm
Acrylonitrile (CAS 107-13-1)	Ceiling	10 ppm
	TWA	1 ppm
Carbon disulfide (CAS 75-15-0)	STEL	30 mg/m3
		10 ppm
	TWA	3 mg/m3
Hexachloroethane (CAS 67-72-1)		1 ppm
	TWA	10 mg/m3
Hydroquinone (CAS 123-31-9)	Ceiling	2 mg/m3
Methacrylonitrile (CAS 126-98-7)	TWA	3 mg/m3
		1 ppm
Methanol (CAS 67-56-1)	STEL	325 mg/m3
		250 ppm
	TWA	260 mg/m3
		200 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Methyl acrylate (CAS 96-33-3)	TWA	35 mg/m3
		10 ppm
Methyl iodide (CAS 74-88-4)	TWA	10 mg/m3
		2 ppm
Methyl methacrylate (CAS 80-62-6)	TWA	410 mg/m3
		100 ppm
Nitrobenzene (CAS 98-95-3)	TWA	5 mg/m3
		1 ppm
Propionitrile (CAS 107-12-0)	TWA	14 mg/m3
		6 ppm
Tetrahydrofuran (CAS 109-99-9)	STEL	735 mg/m3
		250 ppm
	TWA	590 mg/m3 200 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
2-Butanone (CAS 78-93-3)	2 mg/l	MEK	Urine	*
4-Methyl-2-pentanone (CAS 108-10-1)	1 mg/l	Methyl isobutyl ketone	Urine	*
Acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	*
Carbon disulfide (CAS 75-15-0)	0.5 mg/g	2-Thiothiazolidine-4-carboxylic acid (TTCA)	Creatinine in urine	*
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*
Nitrobenzene (CAS 98-95-3)	5 %	Methemoglobin	Hemoglobin in blood	*
Tetrahydrofuran (CAS 109-99-9)	2 mg/l	Tetrahydrofuran	Urine	*

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

1,4-Dichloro-2-butene cis & trans (CAS 764-41-0)	Can be absorbed through the skin.
2-Hexanone (CAS 591-78-6)	Can be absorbed through the skin.
Acrylonitrile (CAS 107-13-1)	Can be absorbed through the skin.
Carbon disulfide (CAS 75-15-0)	Can be absorbed through the skin.
Hexachloroethane (CAS 67-72-1)	Can be absorbed through the skin.
Methacrylonitrile (CAS 126-98-7)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.
Methyl acrylate (CAS 96-33-3)	Can be absorbed through the skin.
Methyl iodide (CAS 74-88-4)	Can be absorbed through the skin.
Nitrobenzene (CAS 98-95-3)	Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

1,4-Dichloro-2-butene cis & trans (CAS 764-41-0)	Skin designation applies.
Acrylonitrile (CAS 107-13-1)	Skin designation applies.
Carbon disulfide (CAS 75-15-0)	Skin designation applies.
Hexachloroethane (CAS 67-72-1)	Skin designation applies.
Methacrylonitrile (CAS 126-98-7)	Skin designation applies.
Methanol (CAS 67-56-1)	Skin designation applies.

Methyl acrylate (CAS 96-33-3)
Methyl iodide (CAS 74-88-4)
Nitrobenzene (CAS 98-95-3)

Skin designation applies.
Skin designation applies.
Skin designation applies.

US - Tennessee OELs: Skin designation

Acrylonitrile (CAS 107-13-1)
Carbon disulfide (CAS 75-15-0)
Hexachloroethane (CAS 67-72-1)
Methacrylonitrile (CAS 126-98-7)
Methanol (CAS 67-56-1)
Methyl acrylate (CAS 96-33-3)
Methyl iodide (CAS 74-88-4)
Nitrobenzene (CAS 98-95-3)

Can be absorbed through the skin.
Can be absorbed through the skin.
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Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

1,4-Dichloro-2-butene cis & trans (CAS 764-41-0)
2-Hexanone (CAS 591-78-6)
Acrylonitrile (CAS 107-13-1)
Carbon disulfide (CAS 75-15-0)
Hexachloroethane (CAS 67-72-1)
Methacrylonitrile (CAS 126-98-7)
Methanol (CAS 67-56-1)
Methyl acrylate (CAS 96-33-3)
Methyl iodide (CAS 74-88-4)
Nitrobenzene (CAS 98-95-3)
Tetrahydrofuran (CAS 109-99-9)

Danger of cutaneous absorption
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US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Acrylonitrile (CAS 107-13-1)
Carbon disulfide (CAS 75-15-0)
Hexachloroethane (CAS 67-72-1)
Methacrylonitrile (CAS 126-98-7)
Methanol (CAS 67-56-1)
Methyl acrylate (CAS 96-33-3)
Methyl iodide (CAS 74-88-4)
Nitrobenzene (CAS 98-95-3)

Can be absorbed through the skin.
Can be absorbed through the skin.
Can be absorbed through the skin.
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Can be absorbed through the skin.
Can be absorbed through the skin.
Can be absorbed through the skin.

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

Hexachloroethane (CAS 67-72-1)
Methyl acrylate (CAS 96-33-3)
Methyl iodide (CAS 74-88-4)
Nitrobenzene (CAS 98-95-3)

Can be absorbed through the skin.
Can be absorbed through the skin.
Can be absorbed through the skin.
Can be absorbed through the skin.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

Eye/face protection

Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Liquid.

Color

Not available.

Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	-144.04 °F (-97.8 °C) estimated
Initial boiling point and boiling range	148.46 °F (64.7 °C) estimated
Flash point	53.6 °F (12.0 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	7.3 % estimated
Explosive limit - upper (%)	36 % estimated
Vapor pressure	169.3 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	867.2 °F (464 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.78721 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Oxidizing properties	Not oxidizing.
Percent volatile	99.84 % estimated
Specific gravity	0.79 estimated
VOC	99.84 % estimated 94.91 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Toxic if inhaled. May cause damage to organs by inhalation. May cause drowsiness or dizziness. Headache. Nausea, vomiting.
Skin contact	Toxic in contact with skin.
Eye contact	Causes serious eye irritation.
Ingestion	Toxic if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects**Acute toxicity** Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed.

Components	Species	Test Results
1,4-Dichloro-2-butene cis & trans (CAS 764-41-0)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	620 mg/kg
Inhalation		
<i>Vapor</i>		
LC50	Rat	86 ppm, 4 Hours 4.1 mg/l, 30 Minutes
Oral		
LD50	Rat	120 - 300 mg/kg
1-Chlorobutane (CAS 109-69-3)		
<u>Acute</u>		
Inhalation		
<i>Aerosol</i>		
LC50	Rat	> 7.74 mg/l, 4 Hours
Oral		
LD50	Rat	2.67 g/kg
2-Butanone (CAS 78-93-3)		
<u>Acute</u>		
Oral		
LD50	Rat	2054 mg/kg
2-Hexanone (CAS 591-78-6)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	4800 mg/kg
Oral		
LD50	Rat	2.59 g/kg
2-Nitropropane (CAS 79-46-9)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	565 - 885 mg/kg
4-Methyl-2-pentanone (CAS 108-10-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 16000 mg/kg
Inhalation		
LC50	-	8.2 - 16.4 mg/l, 4 Hours
Oral		
LD50	Rat	2.08 g/kg
Acetone (CAS 67-64-1)		
<u>Acute</u>		
Inhalation		
<i>Vapor</i>		
LC50	Rat	50.1 mg/l, 4 Hours
Oral		
LD50	Rat	5800 mg/kg

Components	Species	Test Results
Acrylonitrile (CAS 107-13-1)		
<u>Acute</u>		
Dermal		
LD50	Rat	148 mg/kg
Inhalation		
<i>Vapor</i>		
LC50	Various	200 mg/m3, 4 Hours
Oral		
LD50	Rat	78 mg/kg
Carbon disulfide (CAS 75-15-0)		
<u>Acute</u>		
Inhalation		
LC50	-	690 mg/m3, 1 Hours
Chloroacetonitrile (CAS 107-14-2)		
<u>Acute</u>		
Oral		
LD50	Rat	220 mg/kg
Ethyl ether (CAS 60-29-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 20000 mg/kg, 24 Hours
Oral		
LD50	Rat	1200 mg/kg
Ethyl methacrylate (CAS 97-63-2)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 9.1 g/kg
Inhalation		
LC50	Rat	55 mg/l, 4 Hours
Oral		
LD50	Rat	13420 mg/kg
Hexachloroethane (CAS 67-72-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 32000 mg/kg
Oral		
LD50	Rat	4460 mg/kg
Hydroquinone (CAS 123-31-9)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 900 mg/kg
Oral		
LD50	Rat	300 - 600 mg/kg
Methacrylonitrile (CAS 126-98-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	0.32 - 0.35 mg/kg
Oral		
LD50	Rat	64 mg/kg

Components	Species	Test Results
Methanol (CAS 67-56-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	15800 mg/kg
Inhalation		
<i>Vapor</i>		
LC50	Rat	82.1 mg/l, 6 Hours
Methyl acrylate (CAS 96-33-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 190 mg/kg, 24 Hours
Inhalation		
<i>Vapor</i>		
LC50	Rat	1.3 - 1.8 mg/l, 4 Hours
Oral		
LD50	Rat	300 mg/kg
Methyl iodide (CAS 74-88-4)		
<u>Acute</u>		
Inhalation		
LC50	-	1300 mg/m3, 4 Hours
Oral		
LD50	Rat	76 mg/kg
Methyl methacrylate (CAS 80-62-6)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
Inhalation		
<i>Vapor</i>		
LC50	Rat	29.8 mg/l, 4 Hours
Oral		
LD50	Rat	7800 mg/kg
Nitrobenzene (CAS 98-95-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	760 mg/kg, 24 Hours
Pentachloroethane (CAS 76-01-7)		
<u>Acute</u>		
Oral		
LD50	Rat	920 mg/kg
Propionitrile (CAS 107-12-0)		
<u>Acute</u>		
Oral		
LD50	Rat	39 mg/kg
tert-Butyl methyl ether (CAS 1634-04-4)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg
Inhalation		
LC50	Rat	85 mg/l, 4 Hours

Components	Species	Test Results
Oral		
LD50	Rat	> 2000 mg/kg
Tetrahydrofuran (CAS 109-99-9)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 14.7 mg/l, 6 Hours
Oral		
LD50	Rat	1.65 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization		
ACGIH sensitization		
Hydroquinone (CAS 123-31-9)		Dermal sensitization
Methyl acrylate (CAS 96-33-3)		Dermal sensitization
Methyl methacrylate (CAS 80-62-6)		Dermal sensitization
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not classifiable as to carcinogenicity to humans.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
2-Nitropropane (CAS 79-46-9)		2B Possibly carcinogenic to humans.
4-Methyl-2-pentanone (CAS 108-10-1)		2B Possibly carcinogenic to humans.
Acrylonitrile (CAS 107-13-1)		2B Possibly carcinogenic to humans.
Chloroacetonitrile (CAS 107-14-2)		3 Not classifiable as to carcinogenicity to humans.
Ethyl ether (CAS 60-29-7)		3 Not classifiable as to carcinogenicity to humans.
Hexachloroethane (CAS 67-72-1)		2B Possibly carcinogenic to humans.
Hydroquinone (CAS 123-31-9)		3 Not classifiable as to carcinogenicity to humans.
Methyl acrylate (CAS 96-33-3)		2B Possibly carcinogenic to humans.
Methyl iodide (CAS 74-88-4)		3 Not classifiable as to carcinogenicity to humans.
Methyl methacrylate (CAS 80-62-6)		3 Not classifiable as to carcinogenicity to humans.
Nitrobenzene (CAS 98-95-3)		2B Possibly carcinogenic to humans.
Pentachloroethane (CAS 76-01-7)		3 Not classifiable as to carcinogenicity to humans.
tert-Butyl methyl ether (CAS 1634-04-4)		3 Not classifiable as to carcinogenicity to humans.
Tetrahydrofuran (CAS 109-99-9)		2B Possibly carcinogenic to humans.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)		
Acrylonitrile (CAS 107-13-1)		Cancer
US. National Toxicology Program (NTP) Report on Carcinogens		
2-Nitropropane (CAS 79-46-9)		Reasonably Anticipated to be a Human Carcinogen.
Acrylonitrile (CAS 107-13-1)		Reasonably Anticipated to be a Human Carcinogen.
Hexachloroethane (CAS 67-72-1)		Reasonably Anticipated to be a Human Carcinogen.
Nitrobenzene (CAS 98-95-3)		Reasonably Anticipated to be a Human Carcinogen.
Reproductive toxicity	May damage fertility or the unborn child.	
Specific target organ toxicity - single exposure	Causes damage to organs. May cause drowsiness or dizziness.	
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure.	

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
1-Chlorobutane (CAS 109-69-3)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna) 3020 mg/l, 48 hours
2-Butanone (CAS 78-93-3)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna) >= 4025 - <= 6440 mg/l, 48 hours
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus) > 400 mg/l, 96 hours
2-Hexanone (CAS 591-78-6)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Fathead minnow (Pimephales promelas) 428 mg/l, 96 hours
2-Nitropropane (CAS 79-46-9)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Fathead minnow (Pimephales promelas) < 210 mg/l, 96 hours
4-Methyl-2-pentanone (CAS 108-10-1)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Fathead minnow (Pimephales promelas) >= 492 - <= 593 mg/l, 96 hours
Acetone (CAS 67-64-1)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna) >= 10294 - <= 17704 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss) >= 4740 - <= 6330 mg/l, 96 hours
Acrylonitrile (CAS 107-13-1)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna) 7.38 mg/l, 48 hours
Fish	LC50	Grass carp, white amur (Ctenopharyngodon idella) 5.38 mg/l, 96 hours
Carbon disulfide (CAS 75-15-0)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Guppy (Poecilia reticulata) >= 3 - <= 5.8 mg/l, 96 hours
Chloroacetonitrile (CAS 107-14-2)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Fathead minnow (Pimephales promelas) >= 1.15 - <= 1.58 mg/l, 96 hours
Ethyl ether (CAS 60-29-7)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Fathead minnow (Pimephales promelas) 2560 mg/l, 96 hours

Components	Species	Test Results
Hexachloroethane (CAS 67-72-1)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna) >= 1.6 - <= 2.1 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) >= 0.727 - <= 1.92 mg/l, 96 hours
Hydroquinone (CAS 123-31-9)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna) >= 0.12 - <= 0.15 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) 0.044 mg/l, 96 hours
Methanol (CAS 67-56-1)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna) > 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours
Methyl methacrylate (CAS 80-62-6)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Fathead minnow (Pimephales promelas) 130 mg/l, 96 hours
Nitrobenzene (CAS 98-95-3)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna) >= 25.6 - <= 42 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus) >= 36 - <= 49 mg/l, 96 hours
Pentachloroethane (CAS 76-01-7)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna) >= 4 - <= 5.5 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus) >= 6 - <= 8.4 mg/l, 96 hours
Propionitrile (CAS 107-12-0)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Fathead minnow (Pimephales promelas) >= 1450 - <= 1580 mg/l, 96 hours
tert-Butyl methyl ether (CAS 1634-04-4)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Fathead minnow (Pimephales promelas) 672 mg/l, 96 hours
Tetrahydrofuran (CAS 109-99-9)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Fathead minnow (Pimephales promelas) >= 1970 - <= 2360 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

1-Chlorobutane	2.39
2-Butanone	0.29
2-Hexanone	1.38
2-Nitropropane	0.93
4-Methyl-2-pentanone	1.31
Acetone	-0.24

Partition coefficient n-octanol / water (log Kow)

Acrylonitrile	0.25
Carbon disulfide	1.94
Chloroacetonitrile	0.45
Ethyl ether	0.89
Ethyl methacrylate	1.94
Hexachloroethane	4.14
Hydroquinone	0.59
Methacrylonitrile	0.68
Methanol	-0.77
Methyl acrylate	0.8
Methyl iodide	1.51
Methyl methacrylate	1.38
Nitrobenzene	1.85
Pentachloroethane	3.22
Propionitrile	0.16
tert-Butyl methyl ether	0.94
Tetrahydrofuran	0.46

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation potential.

13. Disposal considerations

Disposal instructions Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F
D034: Waste Hexachloroethane
D036: Waste Nitrobenzene
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US RCRA Hazardous Waste P List: Reference

Carbon disulfide (CAS 75-15-0)	P022
Propionitrile (CAS 107-12-0)	P101

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information**DOT**

UN number	UN1230
UN proper shipping name	Methanol, solution (Methanol RQ = 5275 LBS)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB2, T7, TP2
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242

IATA

UN number	UN1230
UN proper shipping name	Methanol solution (Methanol)
Transport hazard class(es)	
Class	3

Subsidiary risk	6.1
Packing group	II
Environmental hazards	No.
ERG Code	3L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.

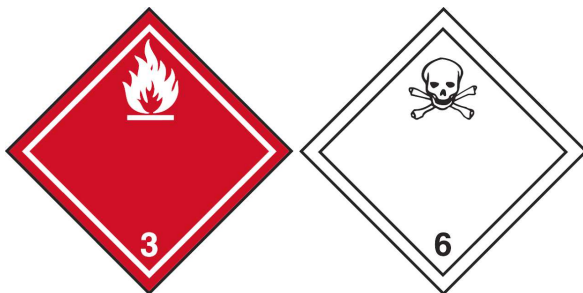
IMDG

UN number	UN1230
UN proper shipping name	METHANOL SOLUTION (Methanol)
Transport hazard class(es)	
Class	3
Subsidiary risk	6.1
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

DOT



IATA; IMDG



15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA) All components of the mixture on the TSCA 8(b) inventory are designated "active".

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

2-Hexanone (CAS 591-78-6)	1.0 % One-Time Export Notification only.
Pentachloroethane (CAS 76-01-7)	1.0 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

1,4-Dichloro-2-butene cis & trans (CAS 764-41-0)	Listed.
1-Chlorobutane (CAS 109-69-3)	Listed.
2-Butanone (CAS 78-93-3)	Listed.
2-Hexanone (CAS 591-78-6)	Listed.
2-Nitropropane (CAS 79-46-9)	Listed.

4-Methyl-2-pentanone (CAS 108-10-1)	Listed.
Acetone (CAS 67-64-1)	Listed.
Acrylonitrile (CAS 107-13-1)	Listed.
Carbon disulfide (CAS 75-15-0)	Listed.
Ethyl ether (CAS 60-29-7)	Listed.
Ethyl methacrylate (CAS 97-63-2)	Listed.
Hexachloroethane (CAS 67-72-1)	Listed.
Hydroquinone (CAS 123-31-9)	Listed.
Methacrylonitrile (CAS 126-98-7)	Listed.
Methanol (CAS 67-56-1)	Listed.
Methyl acrylate (CAS 96-33-3)	Listed.
Methyl iodide (CAS 74-88-4)	Listed.
Methyl methacrylate (CAS 80-62-6)	Listed.
Nitrobenzene (CAS 98-95-3)	Listed.
Pentachloroethane (CAS 76-01-7)	Listed.
Propionitrile (CAS 107-12-0)	Listed.
tert-Butyl methyl ether (CAS 1634-04-4)	Listed.
Tetrahydrofuran (CAS 109-99-9)	Listed.

SARA 304 Emergency release notification

2-Propenenitrile (CAS 107-13-1)	100 LBS
2-Propenenitrile, 2-methyl- (CAS 126-98-7)	1000 LBS
Carbon disulfide (CAS 75-15-0)	100 LBS
Ethyl cyanide (CAS 107-12-0)	10 LBS
Hydroquinone (CAS 123-31-9)	100 LBS
Nitrobenzene (CAS 98-95-3)	1000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Acrylonitrile (CAS 107-13-1)	Cancer Central nervous system Liver Skin sensitization Skin irritation Respiratory irritation Eye irritation Acute toxicity Flammability
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Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Hydroquinone	123-31-9	100		500	10000
Acrylonitrile	107-13-1	100	10000		
Carbon disulfide	75-15-0	100	10000		
Methacrylonitrile	126-98-7	1000	500		
Nitrobenzene	98-95-3	1000	10000		
Propionitrile	107-12-0	10	500		

SARA 311/312 Hazardous chemical Yes

Classified hazard categories	Flammable (gases, aerosols, liquids, or solids) Acute toxicity (any route of exposure) Serious eye damage or eye irritation Reproductive toxicity Specific target organ toxicity (single or repeated exposure) Hazard not otherwise classified (HNOC)
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SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Methanol	67-56-1	94.79

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

2-Nitropropane (CAS 79-46-9)
4-Methyl-2-pentanone (CAS 108-10-1)

Acrylonitrile (CAS 107-13-1)
Carbon disulfide (CAS 75-15-0)
Hexachloroethane (CAS 67-72-1)
Hydroquinone (CAS 123-31-9)
Methanol (CAS 67-56-1)
Methyl iodide (CAS 74-88-4)
Methyl methacrylate (CAS 80-62-6)
Nitrobenzene (CAS 98-95-3)
tert-Butyl methyl ether (CAS 1634-04-4)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Acrylonitrile (CAS 107-13-1)
Carbon disulfide (CAS 75-15-0)
Ethyl ether (CAS 60-29-7)
Methacrylonitrile (CAS 126-98-7)
Propionitrile (CAS 107-12-0)

Safe Drinking Water Act (SDWA) Contains component(s) regulated under the Safe Drinking Water Act.

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

2-Butanone (CAS 78-93-3)	6714
4-Methyl-2-pentanone (CAS 108-10-1)	6715
Acetone (CAS 67-64-1)	6532
Ethyl ether (CAS 60-29-7)	6584

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

2-Butanone (CAS 78-93-3)	35 %WV
4-Methyl-2-pentanone (CAS 108-10-1)	35 %WV
Acetone (CAS 67-64-1)	35 %WV
Ethyl ether (CAS 60-29-7)	35 %WV

DEA Exempt Chemical Mixtures Code Number

2-Butanone (CAS 78-93-3)	6714
4-Methyl-2-pentanone (CAS 108-10-1)	6715
Acetone (CAS 67-64-1)	6532
Ethyl ether (CAS 60-29-7)	6584

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

2-Butanone (CAS 78-93-3)	Low priority
4-Methyl-2-pentanone (CAS 108-10-1)	Low priority
Acetone (CAS 67-64-1)	Low priority
Methyl methacrylate (CAS 80-62-6)	Low priority

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

1,4-Dichloro-2-butene cis & trans (CAS 764-41-0)
2-Butanone (CAS 78-93-3)
2-Hexanone (CAS 591-78-6)
2-Nitropropane (CAS 79-46-9)
4-Methyl-2-pentanone (CAS 108-10-1)
Acetone (CAS 67-64-1)
Acrylonitrile (CAS 107-13-1)
Ethyl ether (CAS 60-29-7)
Hexachloroethane (CAS 67-72-1)
Methanol (CAS 67-56-1)
Methyl acrylate (CAS 96-33-3)
Methyl methacrylate (CAS 80-62-6)
Nitrobenzene (CAS 98-95-3)
tert-Butyl methyl ether (CAS 1634-04-4)
Tetrahydrofuran (CAS 109-99-9)

California Proposition 65



WARNING: This product can expose you to chemicals including 4-Methyl-2-pentanone, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,4-Dichloro-2-butene cis & trans (CAS 764-41-0) Listed: January 1, 1990

2-Nitropropane (CAS 79-46-9)	Listed: January 1, 1988
4-Methyl-2-pentanone (CAS 108-10-1)	Listed: November 4, 2011
Acrylonitrile (CAS 107-13-1)	Listed: July 1, 1987
Hexachloroethane (CAS 67-72-1)	Listed: July 1, 1990
Methyl iodide (CAS 74-88-4)	Listed: April 1, 1988
Nitrobenzene (CAS 98-95-3)	Listed: August 26, 1997

California Proposition 65 - CRT: Listed date/Developmental toxin

2-Hexanone (CAS 591-78-6)	Listed: December 4, 2015
4-Methyl-2-pentanone (CAS 108-10-1)	Listed: March 28, 2014
Carbon disulfide (CAS 75-15-0)	Listed: July 1, 1989
Methanol (CAS 67-56-1)	Listed: March 16, 2012

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

Carbon disulfide (CAS 75-15-0)	Listed: July 1, 1989
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California Proposition 65 - CRT: Listed date/Male reproductive toxin

2-Hexanone (CAS 591-78-6)	Listed: August 7, 2009
Carbon disulfide (CAS 75-15-0)	Listed: July 1, 1989
Nitrobenzene (CAS 98-95-3)	Listed: March 30, 2010

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
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)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	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)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	05-06-2022
Version #	01
NFPA ratings	Health: 4 Flammability: 3 Instability: 0

Disclaimer

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