



SAFETY DATA SHEET

1. Identification

Product identifier	Cold Flow™ Anti-Gel with Lubricity - 55 gal
Other means of identification	
Product Code	No. 05655 (Item# 1003839)
Registration number	EPA: 048320072
Recommended use	Diesel fuel additive for cold weather
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/Distributor information	
Manufactured or sold by:	
Company name	CRC Industries, Inc.
Address	885 Louis Dr. Warminster, PA 18974 US
Telephone	
General Information	215-674-4300
Technical Assistance	800-521-3168
Customer Service	800-272-4620
24-Hour Emergency (CHEMTREC)	800-424-9300 (US)
Website	www.crcindustries.com

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 2
	Reproductive toxicity (the unborn child)	Category 2
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2 (auditory system, central nervous system, kidney, liver)
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	

Label elements



Signal word

Danger

Hazard statement

Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging the unborn child. May cause damage to organs (auditory system, central nervous system, kidney, liver) through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

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 vapors. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. In case of fire: Do not use water jet as an extinguisher, as this will spread the fire. Collect spillage.

Storage

Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national 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

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
xylene		1330-20-7	50 - 60
ethylbenzene		100-41-4	10 - 20
solvent naphtha (petroleum), heavy arom.		64742-94-5	10 - 20
1,2,4-trimethylbenzene		95-63-6	1 - 3
naphthalene		91-20-3	1 - 3
oleic acid		112-80-1	1 - 3
toluene		108-88-3	< 1
butylated phenol		128-39-2	< 0.3
cumene		98-82-8	< 0.2

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. 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. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Edema. Jaundice. 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 all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. 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.
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5. Fire-fighting measures

Suitable extinguishing media	Water fog. 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.
General fire hazards	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 vapor. 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. 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. This product is miscible in water. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. 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. Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. 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. When using do not smoke. Explosion-proof general and local exhaust ventilation. 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 vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. 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. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.
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Conditions for safe storage, including any incompatibilities

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

Components	Type	Value
cumene (CAS 98-82-8)	PEL	245 mg/m ³
		50 ppm
ethylbenzene (CAS 100-41-4)	PEL	435 mg/m ³
		100 ppm
naphthalene (CAS 91-20-3)	PEL	50 mg/m ³
		10 ppm
solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)	PEL	400 mg/m ³
		100 ppm
xylene (CAS 1330-20-7)	PEL	435 mg/m ³
		100 ppm

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

Components	Type	Value
toluene (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
1,2,4-trimethylbenzene (CAS 95-63-6)	TWA	25 ppm	
cumene (CAS 98-82-8)	TWA	50 ppm	
ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
naphthalene (CAS 91-20-3)	TWA	10 ppm	
solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)	TWA	200 mg/m ³	Non-aerosol.
toluene (CAS 108-88-3)	TWA	20 ppm	
xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
1,2,4-trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m ³
		25 ppm
cumene (CAS 98-82-8)	TWA	245 mg/m ³
		50 ppm
ethylbenzene (CAS 100-41-4)	STEL	545 mg/m ³
	TWA	125 ppm
		435 mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
naphthalene (CAS 91-20-3)	STEL	100 ppm
		75 mg/m3
	TWA	15 ppm
solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)	TWA	50 mg/m3
		10 ppm
toluene (CAS 108-88-3)	STEL	100 mg/m3
		560 mg/m3
	TWA	150 ppm
xylene (CAS 1330-20-7)	STEL	375 mg/m3
		100 ppm
	TWA	655 mg/m3
		150 ppm
		435 mg/m3
		100 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*
xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

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

Exposure guidelines

US - California OELs: Skin designation

- cumene (CAS 98-82-8) Can be absorbed through the skin.
- naphthalene (CAS 91-20-3) Can be absorbed through the skin.
- toluene (CAS 108-88-3) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

- cumene (CAS 98-82-8) Skin designation applies.
- toluene (CAS 108-88-3) Skin designation applies.

US - Tennessee OELs: Skin designation

- cumene (CAS 98-82-8) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

- naphthalene (CAS 91-20-3) Can be absorbed through the skin.
- solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

- cumene (CAS 98-82-8) Can be absorbed through the skin.

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

- cumene (CAS 98-82-8) Can be absorbed through the skin.

Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) 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. Eye wash facilities and emergency shower should be available when handling this product.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear protective gloves such as: Nitrile. Neoprene. Polyvinyl chloride (PVC).
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using, do not eat, drink or smoke. 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	Light amber.
Odor	Petroleum.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	-52.6 °F (-47 °C) estimated
Initial boiling point and boiling range	278.6 °F (137 °C) estimated
Flash point	93.2 °F (34 °C) Setflash
Evaporation rate	Slow.
Flammability (solid, gas)	Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	0.5 % estimated
Flammability limit - upper (%)	6.6 % estimated
Vapor pressure	7.9 hPa estimated
Vapor density	> 1 (air = 1)
Relative density	0.88
Solubility(ies)	
Solubility (water)	Negligible.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	410 °F (210 °C) estimated
Decomposition temperature	Not available.
Percent volatile	95.5 % 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	No dangerous reaction known under conditions of normal use.

Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong acids. Strong oxidizing agents. Halogens.
Hazardous decomposition products	Carbon oxides. Alkene.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Edema. Jaundice.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Harmful if inhaled.

Components	Species	Test Results
1,2,4-trimethylbenzene (CAS 95-63-6)		
Acute		
Dermal		
LD50	Rabbit	> 3160 mg/kg
Oral		
LD50	Rat	6 g/kg
butylated phenol (CAS 128-39-2)		
Acute		
Oral		
LD50	Mouse	2995 mg/kg
ethylbenzene (CAS 100-41-4)		
Acute		
Dermal		
LD50	Rabbit	15400 mg/kg
Oral		
LD50	Rat	3500 mg/kg
naphthalene (CAS 91-20-3)		
Acute		
Dermal		
LD50	Rabbit	> 20 g/kg
oleic acid (CAS 112-80-1)		
Acute		
Dermal		
LD50	Guinea pig	> 3000 mg/kg
Oral		
LD50	Rat	74 g/kg
solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
<i>Vapor</i>		
LC50	Rat	> 22 mg/l, 4 hours

Components	Species	Test Results
Oral LD50	Rat	> 5000 mg/kg
toluene (CAS 108-88-3)		
Acute		
Dermal LD50	Rabbit	> 5000 mg/kg
Inhalation LC50	Rat	12.5 mg/l, 4 hours
Oral LD50	Rat	5580 mg/kg
xylene (CAS 1330-20-7)		
Acute		
Dermal LD50	Rabbit	> 4300 mg/kg
Inhalation LC50	Rat	29 mg/l, 4 hours
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin 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	Suspected of causing cancer.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
cumene (CAS 98-82-8)	2B Possibly carcinogenic to humans.	
ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.	
naphthalene (CAS 91-20-3)	2B Possibly carcinogenic to humans.	
toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.	
xylene (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)		
Not regulated.		
US. National Toxicology Program (NTP) Report on Carcinogens		
cumene (CAS 98-82-8)	Reasonably Anticipated to be a Human Carcinogen.	
naphthalene (CAS 91-20-3)	Known To Be Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.	
Reproductive toxicity	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging the unborn child.	
Specific target organ toxicity - single exposure	May cause respiratory irritation. May cause drowsiness and dizziness.	
Specific target organ toxicity - repeated exposure	May cause damage to organs (auditory system, central nervous system, kidney, liver) through prolonged or repeated exposure.	
Aspiration hazard	May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vomiting, may cause chemical pneumonia, pulmonary injury or death.	
Chronic effects	May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.	

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components	Species	Test Results
1,2,4-trimethylbenzene (CAS 95-63-6)		
Aquatic		
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) 7.19 - 8.28 mg/l, 96 hours
<i>Acute</i>		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 3.6 mg/l, 48 hours
butylated phenol (CAS 128-39-2)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 0.45 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) 1.4 mg/l, 96 hours
cumene (CAS 98-82-8)		
Aquatic		
Crustacea	EC50	Brine shrimp (<i>Artemia</i> sp.) 3.55 - 11.29 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>) 2.7 mg/l, 96 hours
ethylbenzene (CAS 100-41-4)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	<i>Daphnia magna</i> 1.8 mg/l, 48 hours
Fish	LC50	Fish 5.1 mg/l, 96 hours
naphthalene (CAS 91-20-3)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 1.09 - 3.4 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>) 1.6 mg/l, 96 hours
oleic acid (CAS 112-80-1)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>) 56 mg/l, 96 hours
solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	<i>Daphnia magna</i> 1.1 mg/l, 48 hours
Fish	EC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>) 2 mg/l, 96 hours
	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>) 2 mg/l, 96 hours
toluene (CAS 108-88-3)		
<i>Acute</i>		
Other	EC50	<i>Pseudokirchnerella subcapitata</i> 433 mg/l, 96 hours 12.5 mg/l, 72 hours
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 6 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (<i>Oncorhynchus kisutch</i>) 5.5 mg/l, 96 hours

Components	Species	Test Results
xylene (CAS 1330-20-7)		
Aquatic		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)
		6.702 - 10.032 mg/l, 96 hours
<i>Acute</i>		
Crustacea	EC50	Daphnia magna
		3.82 mg/l, 48 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)

butylated phenol	4.92
cumene	3.66
ethylbenzene	3.15
naphthalene	3.3
toluene	2.73
xylene	3.12 - 3.2

Bioconcentration factor (BCF)

ethylbenzene	1
toluene	90
xylene	23.99

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Hazardous waste code	D001: Waste Flammable material with a flash point <140 F F003: Waste Non-halogenated Solvent - Spent Non-halogenated Solvent
Disposal instructions	This material and its container must be disposed of as hazardous waste. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number	UN1993
UN proper shipping name	Flammable liquids, n.o.s. (xylene RQ = 186 LBS, petroleum naphtha)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	III
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	B1, B52, IB3, T4, TP1, TP29
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242

IATA

UN number	UN1993
UN proper shipping name	Flammable liquid, n.o.s. (xylene, petroleum naphtha)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	III
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 UN1993
UN proper shipping name FLAMMABLE LIQUID, N.O.S. (xylene, petroleum naphtha), MARINE POLLUTANT
Transport hazard class(es)
Class 3
Subsidiary risk -
Packing group III
Environmental hazards
Marine pollutant Yes
EmS F-E, S-E
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

DOT



IATA; IMDG



Marine pollutant



15. Regulatory information

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

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

SARA 304 Emergency release notification
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)
Not regulated.

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

- 1,2,4-trimethylbenzene (CAS 95-63-6)
- cumene (CAS 98-82-8)
- ethylbenzene (CAS 100-41-4)
- naphthalene (CAS 91-20-3)
- xylene (CAS 1330-20-7)

CERCLA Hazardous Substance List (40 CFR 302.4)

- cumene (CAS 98-82-8)
- ethylbenzene (CAS 100-41-4)
- naphthalene (CAS 91-20-3)
- toluene (CAS 108-88-3)
- xylene (CAS 1330-20-7)

CERCLA Hazardous Substances: Reportable quantity

cumene (CAS 98-82-8)	5000 LBS
ethylbenzene (CAS 100-41-4)	1000 LBS
naphthalene (CAS 91-20-3)	100 LBS
toluene (CAS 108-88-3)	1000 LBS
xylene (CAS 1330-20-7)	100 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Other federal regulations

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

- cumene (CAS 98-82-8)
- ethylbenzene (CAS 100-41-4)
- naphthalene (CAS 91-20-3)
- toluene (CAS 108-88-3)
- xylene (CAS 1330-20-7)

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

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

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

toluene (CAS 108-88-3)	6594
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Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

toluene (CAS 108-88-3)	35 %WV
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DEA Exempt Chemical Mixtures Code Number

toluene (CAS 108-88-3)	594
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Food and Drug Administration (FDA) Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
1,2,4-trimethylbenzene	95-63-6	1 - 3
cumene	98-82-8	< 0.2
ethylbenzene	100-41-4	10 - 20
naphthalene	91-20-3	1 - 3

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
toluene	108-88-3	< 1
xylene	1330-20-7	50 - 60

US state regulations**US. New Jersey Worker and Community Right-to-Know Act**

1,2,4-trimethylbenzene (CAS 95-63-6)
 cumene (CAS 98-82-8)
 ethylbenzene (CAS 100-41-4)
 naphthalene (CAS 91-20-3)
 solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)
 toluene (CAS 108-88-3)
 xylene (CAS 1330-20-7)

US. Massachusetts RTK - Substance List

1,2,4-trimethylbenzene (CAS 95-63-6)
 cumene (CAS 98-82-8)
 ethylbenzene (CAS 100-41-4)
 naphthalene (CAS 91-20-3)
 solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)
 toluene (CAS 108-88-3)
 xylene (CAS 1330-20-7)

US. Pennsylvania Worker and Community Right-to-Know Law

1,2,4-trimethylbenzene (CAS 95-63-6)
 cumene (CAS 98-82-8)
 ethylbenzene (CAS 100-41-4)
 naphthalene (CAS 91-20-3)
 oleic acid (CAS 112-80-1)
 toluene (CAS 108-88-3)
 xylene (CAS 1330-20-7)

US. Rhode Island RTK

1,2,4-trimethylbenzene (CAS 95-63-6)
 cumene (CAS 98-82-8)
 ethylbenzene (CAS 100-41-4)
 naphthalene (CAS 91-20-3)
 oleic acid (CAS 112-80-1)
 solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)
 toluene (CAS 108-88-3)
 xylene (CAS 1330-20-7)

California Proposition 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

California Proposition 65 - CRT: Listed date/Carcinogenic substance

benzene (CAS 71-43-2) Listed: February 27, 1987
 cumene (CAS 98-82-8) Listed: April 6, 2010
 ethylbenzene (CAS 100-41-4) Listed: June 11, 2004
 naphthalene (CAS 91-20-3) Listed: April 19, 2002

California Proposition 65 - CRT: Listed date/Developmental toxin

benzene (CAS 71-43-2) Listed: December 26, 1997
 toluene (CAS 108-88-3) Listed: January 1, 1991

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

benzene (CAS 71-43-2) Listed: December 26, 1997

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

1,2,4-trimethylbenzene (CAS 95-63-6)
 cumene (CAS 98-82-8)
 ethylbenzene (CAS 100-41-4)
 naphthalene (CAS 91-20-3)
 solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)
 toluene (CAS 108-88-3)
 xylene (CAS 1330-20-7)

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 51.100(s)) > 94.6 %

Consumer products (40 CFR 59, Subpt. C) Not regulated

State

Consumer products Not regulated

VOC content (CA) > 94.6 %

VOC content (OTC) > 94.6 %

International Inventories

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)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
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 07-29-2019

Prepared by Allison Yoon

Version # 01

Further information CRC # 1751611

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Revision information Product and Company Identification: Product Registration Numbers
Hazard(s) identification: Prevention
Accidental release measures: Personal precautions, protective equipment and emergency procedures
Handling and storage: Precautions for safe handling
Physical and chemical properties: Color
Stability and reactivity: Hazardous decomposition products
Disposal considerations: Disposal instructions
Disposal considerations: Hazardous waste code
Transport Information: Material Transportation Information
Regulatory information: Safe Drinking Water Act (SDWA)
Other information, including date of preparation or last revision: Further information
GHS: Classification