SAFETY DATA SHEET



BG Fuel Injection System Cleaner

Section 1. Identification

GHS product identifier	: BG Fuel Injection System Cleaner
Product code	: 210
Other means of identification	: 210E, 210WOR, 2100, 21000, 210200, 210200E, 2105, 210B, 210CCWOR, P210
Product type	: Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
Fuel additive.	

Supplier's details	: BG Products Inc. 740 S. Wichita Street Wichita, KS, 67213, USA www.bgprod.com 316-266-8120 msds@bgprod.com
Emergency telephone	: (800) 424-9300 (CHEMTREC)

Emergency telephone	: (800) 424-9300 (CHEMTREC)
number (with hours of	24-hour telephone and/or website
operation)	

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 AMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1
	 Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 48.6% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 45.5%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Highly flammable liquid and vapor. Causes serious eye irritation. Causes skin irritation. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness.
Precautionary statements	

Section 2. Hazards identification

Prevention	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.
Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. 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 attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: <mark>2</mark> 10E, 2
identification	

10E, 210WOR, 2100, 21000, 210200, 210200E, 2105, 210B, 210CCWOR, P210

Ingredient name	%	CAS number
Maphtha (petroleum), hydrotreated heavy	10 - 30	64742-48-9
Naphtha (petroleum), hydrotreated light	10 - 30	64742-49-0
xylene	10 - 30	1330-20-7
Isopropyl alcohol	10 - 30	67-63-0
2-Propoxyethanol	5 - 10	2807-30-9
oleic acid	5 - 10	112-80-1
Benzenesulfonic acid, mono-C10-13-branched alkyl derivs., compds. with	1 - 5	90194-54-0
2-propanamine		
ethylbenzene	1 - 5	100-41-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessa	ary first aid measures
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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Section 4. First aid measures

Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/e	fects, acute and delayed
Potential acute health effe	is a second s
Eye contact	: Causes serious eye irritation.
Inhalation	: Zan cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Over-exposure signs/symp	<u>oms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: Adverse symptoms may include the following: nausea or vomiting
Indication of immediate mee	ical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Ducto stieve of first siders	. No option shall be taken involving any negotial sink or without switchle training. If it is

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

Section 5. Fire-fighting measures

Specific hazards arising from the chemical	: Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information i Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ainment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
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Section 7. Handling and storage

Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Maphtha (petroleum), hydrotreated heavy Naphtha (petroleum), hydrotreated light xylene	None. None. ACGIH TLV (United States, 3/2018). TWA: 100 ppm 8 hours. TWA: 434 mg/m ³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 651 mg/m ³ 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 100 ppm 8 hours. TWA: 435 mg/m ³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 655 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 435 mg/m ³ 8 hours.
Isopropyl alcohol	ACGIH TLV (United States, 3/2018). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 400 ppm 8 hours. TWA: 980 mg/m ³ 8 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m ³ 15 minutes. NIOSH REL (United States, 10/2016). TWA: 400 ppm 10 hours. TWA: 980 mg/m ³ 10 hours. STEL: 500 ppm 15 minutes. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 400 ppm 8 hours. TWA: 980 mg/m ³ 8 hours.
2-Propoxyethanol oleic acid Benzenesulfonic acid, mono-C10-13-branched alkyl derivs., compds. with 2-propanamine ethylbenzene	None. None. None. ACGIH TLV (United States, 3/2018). TWA: 20 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 100 ppm 8 hours. TWA: 435 mg/m ³ 8 hours.

BG Fuel Injection System Cleaner

Section 8. Exposure controls/personal protection

	STEL: 545 mg/m ³ 15 minutes. NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 435 mg/m ³ 10 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 435 mg/m ³ 8 hours.
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Personal protective equipment (Pictograms)	

Section 9. Physical and chemical properties

Appearance Physical state : Liquid. Color : Amber. [Light] Odor : Solvent. **Odor threshold** : Not available. pH : Not available. **Melting point** : Not available. **Boiling point** : 77°C (170.6°F) **Flash point** : Closed cup: -5°C (23°F) [Tagliabue.] **Evaporation rate** : Not available. Flammability (solid, gas) : Not available. Lower and upper explosive : Not available. (flammable) limits Vapor pressure : Not available. Vapor density : Not available. : 0.8229 **Relative density Solubility** : Not available. Solubility in water : Not available. Partition coefficient: n-: Not available. octanol/water : Not available. **Auto-ignition temperature Decomposition temperature** : Not available. Viscosity : Kinematic (40°C (104°F)): 0.0162 cm²/s (1.62 cSt)

: Not available.

Section 10. Stability and reactivity

Flow time (ISO 2431)

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects Acute toxicity

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Section 11. Toxicological information

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Product/ingredient name	Result	Species	Dose	Exposure
Maphtha (petroleum), hydrotreated heavy	LD50 Oral	Rat	>6 g/kg	-
Naphtha (petroleum), hydrotreated light	LC50 Inhalation Dusts and mists	Rat	5.61 mg/l	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Isopropyl alcohol	LC50 Inhalation Dusts and mists	Rat	16000 ppm	8 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
2-Propoxyethanol	LD50 Dermal	Guinea pig	1 g/kg	-
	LD50 Oral	Rat	3089 mg/kg	-
oleic acid	LD50 Oral	Rat	25000 mg/kg	-
Benzenesulfonic acid, mono-	LD50 Oral	Rat	2000 mg/kg	-
C10-13-branched alkyl derivs.				
, compds. with				
2-propanamine				
ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
x ylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				milligrams	
	Skin - Mild irritant	Rat	-	8 hours 60	-
				microliters	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
		B 11.1		milligrams	
	Skin - Moderate irritant	Rabbit	-	100 Percent	-
Isopropyl alcohol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Even Mederate irritent	Dabbit		milligrams	
	Eyes - Moderate irritant Eyes - Severe irritant	Rabbit Rabbit	-	10 milligrams 100	-
	Eyes - Severe initalit	Rabbit	-	milligrams	-
	Skin - Mild irritant	Rabbit		500	
		1 CODDIC		milligrams	
2-Propoxyethanol	Eyes - Severe irritant	Rabbit	-	24 hours 750	_
		1 CODDIC		Micrograms	
	Eyes - Severe irritant	Rabbit	-	100	-
	5			milligrams	
	Skin - Mild irritant	Guinea pig	-	500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
oleic acid	Eyes - Mild irritant	Rabbit	-	100	-
		l		milligrams	
	Skin - Moderate irritant	Human	-	72 hours 15	-
				milligrams	
	Skin - Mild irritant	Rabbit		Intermittent 500	
			-	milligrams	-
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500	_
				milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				milligrams	

Sensitization

Not available.

Section 11. Toxicological information

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
ylene Isopropyl alcohol	-	3 3	-
ethylbenzene	-	2B	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
BG Fuel Injection System Cleaner	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
Naphtha (petroleum), hydrotreated heavy Naphtha (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely : Not available. routes of exposure

Potential acute health effects

Folential acule health	
Eye contact	: Causes serious eye irritation.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness

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Section 11. Toxicological information

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: Adverse symptoms may include the following: nausea or vomiting

Delayed and immediate effect	Si	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ct	<u>5</u>
Not available.		
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Maphtha (petroleum), hydrotreated light	5000	N/A	N/A	N/A	5.61
xylene	4300	N/A	5000	N/A	N/A
Isopropyl alcohol	5000	12800	N/A	N/A	N/A
2-Propoxyethanol	3089	1100	N/A	N/A	N/A
oleic acid	25000	N/A	N/A	N/A	N/A
Benzenesulfonic acid, mono-C10-13-branched alkyl derivs., compds. with 2-propanamine	2000	N/A	N/A	N/A	N/A
ethylbenzene	3500	N/A	N/A	N/A	N/A

Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
Naphtha (petroleum), hydrotreated heavy	Acute LC50 10 mg/l	Fish	96 hours
,,	Chronic NOEC 0.68 mg/l	Daphnia	21 days
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Isopropyl alcohol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
oleic acid	Acute LC50 205000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
ethylbenzene	Acute EC50 4600 μg/l Fresh water	Algae - Pseudokirchneriella	72 hours
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Section 12. Ecological information

	subcapitata	
Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
Acute EC50 6.53 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
Acute EC50 2.93 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Acute LC50 4200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Maphtha (petroleum), hydrotreated heavy	-	10 to 2500	high
Naphtha (petroleum), hydrotreated light	2.2 to 5.2	10 to 2500	high
xylene	3.12	8.1 to 25.9	low
Isopropyl alcohol	0.05	-	low
2-Propoxyethanol	0.673	-	low
oleic acid	7.73	-	high
ethylbenzene	3.6	-	low

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

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Disposal methods
                                  The generation of waste should be avoided or minimized wherever possible. Disposal
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                                  of this product, solutions and any by-products should at all times comply with the
                                  requirements of environmental protection and waste disposal legislation and any
                                  regional local authority requirements. Dispose of surplus and non-recyclable products
                                  via a licensed waste disposal contractor. Waste should not be disposed of untreated to
                                  the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
                                  Waste packaging should be recycled. Incineration or landfill should only be considered
                                  when recycling is not feasible. This material and its container must be disposed of in a
                                  safe way. Care should be taken when handling emptied containers that have not been
                                  cleaned or rinsed out. Empty containers or liners may retain some product residues.
                                  Vapor from product residues may create a highly flammable or explosive atmosphere
                                  inside the container. Do not cut, weld or grind used containers unless they have been
                                  cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact
                                  with soil, waterways, drains and sewers.
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United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #		Reference number
₩ylene	1330-20-7	Listed	U239

Section 14. Transport information

Section 14.	папэрон					
	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	UN1993	UN1993	UN1993	UN1993	UN1993	UN1993
UN proper shipping name	Flammable liquids, n.o.s. (xylene)	FLAMMABLE LIQUID, N.O.S. (xylene)	LIQUIDO INFLAMABLE, N.E.P. (xylene)	FLAMMABLE LIQUID, N.O.S. (xylene)	FLAMMABLE LIQUID, N.O.S. (xylene)	Flammable liquid, n.o.s. (xylene)
Transport hazard class(es)	3	3	3	3	3	3
Packing group	11	11	11	11	11	11
Environmental hazards	No.	N o.	N o.	№ 0.	№ 0.	No.
TDG Classificati Mexico Classific ADR/RID	ion : P G E P S cation : S : F	pecial provision roduct classified a oods Regulations xplosive Limit an assenger Carryin pecial provision azard identificat imited guantity 1	as per the followin : 2.18-2.19 (Class ind Limited Quan ing Road or Rail I <u>s</u> 16, 150 <u>s</u> 274 ion number 33	g sections of the s 3). tity Index 1	Transportation of	Dangerous
IMDG	S T : E	pecial provision unnel code (D/E) mergency sched	<u>s</u> 601, 274, 640D) lules F-E, _S-E_			
ΙΑΤΑ	: 🛛 C A	pecial provision uantity limitation argo Aircraft Only ircraft: 1 L. Packa pecial provision	n Passenger and 60 L. Packaging 19 instructions:	instructions: 364		
Special precaution	u	ransport within uppright and secure. vent of an accider	. Ensure that pers			
Transport in bulk to Annex II of MAI the IBC Code	• • • • • • • • • • • • • • • • • • •	ot available.				

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Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined
olo. Pouola rogalationo	Clean Water Act (CWA) 307: toluene; benzene; ethylbenzene
	Clean Water Act (CWA) 311: ammonia; toluene; benzene; ethylbenzene; xylene
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
<u>SARA 302/304</u>	
Composition/information	on ingredients
No products were found.	
SARA 304 RQ	: Not applicable.
SARA 311/312	
Classification	 AMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Category 3 ASPIRATION HAZARD - Category 1

Composition/information on ingredients

Name	%	Classification
Naphtha (petroleum),	≥10 - ≤25	FLAMMABLE LIQUIDS - Category 3
hydrotreated heavy		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
Naphtha (petroleum),	≥10 - ≤25	GERM CELL MUTAGENICITY - Category 1B
hydrotreated light		CARCINOGENICITY - Category 1B
		ASPIRATION HAZARD - Category 1
xylene	≥10 - ≤25	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
Isopropyl alcohol	≥10 - ≤25	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
2-Propoxyethanol	≤10	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (dermal) - Category 4
		EYE IRRITATION - Category 2A
oleic acid	≤10	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2B
Benzenesulfonic acid, mono- C10-13-branched alkyl derivs.,	≤5	ACUTE TOXICITY (oral) - Category 4
compds. with 2-propanamine		
ethylbenzene	≤3	FLAMMABLE LIQUIDS - Category 3
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
		ASPIRATION HAZARD - Category 1

SARA 313

Section 15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	Viene	1330-20-7	≥10 - ≤25
	Isopropyl alcohol	67-63-0	≥10 - ≤25
	2-(propyloxy)ethanol	2807-30-9	≤10
	ethylbenzene	100-41-4	≤3
Supplier notification	✓ylene	1330-20-7	≥10 - ≤25
	Isopropyl alcohol	67-63-0	≥10 - ≤25
	2-(propyloxy)ethanol	2807-30-9	≤10
	ethylbenzene	100-41-4	≤3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	 The following components are listed: ETHYL BENZENE; ETHYLBENZENE; XYLENE; DIMETHYLBENZENE; ISOPROPYL ALCOHOL; 2-PROPANOL
New York	: The following components are listed: Ethylbenzene; Xylene mixed
New Jersey	 The following components are listed: ETHYL BENZENE; BENZENE, ETHYL-; XYLENES; BENZENE, DIMETHYL-; GLYCOL ETHERS; ISOPROPYL ALCOHOL; 2-PROPANOL
Pennsylvania	 The following components are listed: BENZENE, ETHYL-; BENZENE, DIMETHYL-; 2-PROPANOL; 9-OCTADECENOIC ACID (Z)-

California Prop. 65

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

Ingredient name	No significant risk level	Maximum acceptable dosage level
Ethylbenzene	Yes.	-
Benzene	Yes.	Yes.
Toluene	-	Yes.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list	
Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.

Section 15. Regulatory information

New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: 🕅 components are listed or exempted.
Taiwan	: 🕅 components are listed or exempted.
Thailand	: All components are listed or exempted.
Turkey	: 🕅 components are listed or exempted.
United States	: All components are listed or exempted.
Viet Nam	: All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification			Justification		
AMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1			otic effects) -	On basis of test data Calculation method Calculation method Calculation method On basis of test data	
History					
Date of printing	: 5/14/2019				
Date of issue/Date of revision	: 5/14/2019				
Date of previous issue	: 12/12/2018				
Version	: 3				
Date of issue/Date of revision	: 5/14/2019	Date of previous issue	: 12/12/2018	Version : 3	15/16

Section 16. Other information

Formulation Version number	: 24.0
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations
References	: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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