

SAFETY DATA SHEET

Well-Worth
PROFESSIONAL PERFORMANCE PRODUCTS

Octi-Plus Multi Functional Fuel Treatment

Section 1. Identification

GHS product identifier : Octi-Plus Multi Functional Fuel Treatment
Other means of identification : Gas treatment
Product code : 8056- 12 oz
Product type : Liquid

Identified uses

In tank fuel treatment for regular fuel. Cleans entire fuel system and prevents problems associated with ethanol fuel such as phase separation.

Supplier/Manufacturer : Well-Worth Products, Inc.
 180 Dutton Ave.
 Buffalo, NY 14211
 Tel: 716-597-0214
 Toll Free:800-890-7935
 Fax: 716-597-0217
 Email: trichie@wellworthproducts.com
 Website: www.wellworthproducts.com

Emergency telephone number (with hours of operation) : CHEMTREC, U.S. : 1-800-424-9300
 24/7

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 : FLAMMABLE LIQUIDS - Category 3
 ACUTE TOXICITY (oral) - Category 4
 ACUTE TOXICITY (dermal) - Category 4
 SKIN CORROSION/IRRITATION - Category 2
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
 CARCINOGENICITY - Category 2
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
 ASPIRATION HAZARD - Category 1
 AQUATIC HAZARD (ACUTE) - Category 2
 AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements

Hazard pictograms



Signal word : Danger

Section 2. Hazards identification

- Hazard statements** : H226 - Flammable liquid and vapor.
H302 + H312 - Harmful if swallowed or in contact with skin.
H319 - Causes serious eye irritation.
H315 - Causes skin irritation.
H351 - Suspected of causing cancer.
H304 - May be fatal if swallowed and enters airways.
H335 - May cause respiratory irritation.
H373 - May cause damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.
- Precautionary statements**
- Prevention** : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P281 - Use personal protective equipment as required.
P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P233 - Keep container tightly closed.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P260 - Do not breathe vapor.
P270 - Do not eat, drink or smoke when using this product.
P264 - Wash hands thoroughly after handling.
- Response** : P391 - Collect spillage.
P314 - Get medical attention if you feel unwell.
P308 + P313 - IF exposed or concerned: Get medical attention.
P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P302 + P352 + P312 + P362-2 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing.
P332 + P313 - If skin irritation occurs: Get medical attention.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.
- Storage** : P405 - Store locked up.
P403 - Store in a well-ventilated place.
P235 - Keep cool.
- Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified (HNOC)

Physical hazards not otherwise classified (PHNOC) : None known.

Health hazards not otherwise classified (HHNOC) : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification : Gas treatment

CAS number/other identifiers

CAS number : Not applicable.
Product code : 8056- 12 oz

Ingredient name	%	CAS number
Light aromatic petroleum naphtha	30 - 60	64742-95-6
Trimethylbenzene	30 - 60	25551-13-7
2-Butoxyethanol	10 - 30	111-76-2
1,2,4-Trimethylbenzene	10 - 30	95-63-6
Xylene	5 - 10	1330-20-7
Cumene	5 - 10	98-82-8
Cymene	1 - 5	25155-15-1
2-Ethylhexan-1-ol	1 - 5	104-76-7
1,2,3-Trimethylbenzene	0.1 - 1	526-73-8
Distillates (petroleum), hydrotreated light	0.1 - 1	64742-47-8
Mesitylene	0.1 - 1	108-67-8
Propylbenzene	0.1 - 1	103-65-1
Ethanediol	0.1 - 1	107-21-1

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 necessary 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 20 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.
- Skin contact** : Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. 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.

Section 4. First aid measures

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Harmful in contact with skin. Causes skin irritation.
- Ingestion** : Harmful if swallowed. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : Adverse symptoms may include the following:
nausea or vomiting

Indication of immediate medical 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.
- 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂ or foam.
- Unsuitable extinguishing media** : Do not use water jet or water-based fire extinguishers.

Specific hazards arising from the chemical

- : Flammable liquid and vapor. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

- : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Section 5. Fire-fighting measures

- Special protective actions for fire-fighters** : 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 in 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

- 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). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. 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.
- 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. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.

Section 7. Handling and storage

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.

Section 8. Exposure controls/personal protection

Control parameters

United States

Occupational exposure limits

Ingredient name	Exposure limits
Trimethylbenzene	<p>ACGIH TLV (United States, 4/2014). TWA: 123 mg/m³ 8 hours. TWA: 25 ppm 8 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 25 ppm 8 hours. TWA: 125 mg/m³ 8 hours.</p>
2-Butoxyethanol	<p>ACGIH TLV (United States, 4/2014). TWA: 20 ppm 8 hours.</p> <p>NIOSH REL (United States, 10/2013). Absorbed through skin. TWA: 24 mg/m³ 10 hours. TWA: 5 ppm 10 hours.</p> <p>OSHA PEL (United States, 2/2013). Absorbed through skin. TWA: 240 mg/m³ 8 hours. TWA: 50 ppm 8 hours.</p>
1,2,4-Trimethylbenzene	<p>ACGIH TLV (United States, 4/2014). TWA: 123 mg/m³ 8 hours. TWA: 25 ppm 8 hours.</p> <p>NIOSH REL (United States, 10/2013). TWA: 125 mg/m³ 10 hours. TWA: 25 ppm 10 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 25 ppm 8 hours. TWA: 125 mg/m³ 8 hours.</p>
Xylene	<p>ACGIH TLV (United States, 4/2014). STEL: 651 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. TWA: 100 ppm 8 hours.</p> <p>OSHA PEL (United States, 2/2013). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours.</p>
Cumene	<p>ACGIH TLV (United States, 4/2014). TWA: 50 ppm 8 hours.</p> <p>NIOSH REL (United States, 10/2013). Absorbed through skin. TWA: 245 mg/m³ 10 hours. TWA: 50 ppm 10 hours.</p> <p>OSHA PEL (United States, 2/2013). Absorbed through skin. TWA: 245 mg/m³ 8 hours. TWA: 50 ppm 8 hours.</p>
1,2,3-Trimethylbenzene	<p>ACGIH TLV (United States, 6/2013). TWA: 123 mg/m³ 8 hours. TWA: 25 ppm 8 hours.</p> <p>NIOSH REL (United States, 4/2013). TWA: 125 mg/m³ 10 hours. TWA: 25 ppm 10 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 125 mg/m³ 8 hours. TWA: 25 ppm 8 hours.</p>
Distillates (petroleum), hydrotreated light	<p>ACGIH TLV (United States, 4/2014). Absorbed through skin.</p>

Section 8. Exposure controls/personal protection

Mesitylene	TWA: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours. ACGIH TLV (United States, 4/2014). TWA: 123 mg/m ³ 8 hours. TWA: 25 ppm 8 hours.
Ethanediol	NIOSH REL (United States, 10/2013). TWA: 125 mg/m ³ 10 hours. TWA: 25 ppm 10 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 25 ppm 8 hours. TWA: 125 mg/m ³ 8 hours. ACGIH TLV (United States, 4/2014). C: 100 mg/m ³ Form: Aerosol. OSHA PEL 1989 (United States, 3/1989). CEIL: 125 mg/m ³ CEIL: 50 ppm

Canada

<u>Occupational exposure limits</u>		TWA (8 hours)			STEL (15 mins)			Ceiling			Notations
Ingredient	List name	ppm	mg/m ³	Other	ppm	mg/m ³	Other	ppm	mg/m ³	Other	
Trimethylbenzene	US ACGIH 4/2014	25	123	-	-	-	-	-	-	-	
	AB 4/2009	25	123	-	-	-	-	-	-	-	
	BC 7/2013	25	-	-	-	-	-	-	-	-	
	ON 1/2013	25	123	-	-	-	-	-	-	-	
	QC 1/2014	25	123	-	-	-	-	-	-	-	
2-Butoxyethanol	US ACGIH 4/2014	20	-	-	-	-	-	-	-	-	
	AB 4/2009	20	97	-	-	-	-	-	-	-	[3]
	BC 7/2013	20	-	-	-	-	-	-	-	-	
	ON 1/2013	20	-	-	-	-	-	-	-	-	[1]
	QC 1/2014	20	97	-	-	-	-	-	-	-	
1,2,4-Trimethylbenzene	US ACGIH 4/2014	25	123	-	-	-	-	-	-	-	
	AB 4/2009	25	123	-	-	-	-	-	-	-	
	BC 7/2013	25	-	-	-	-	-	-	-	-	
	ON 1/2013	25	123	-	-	-	-	-	-	-	
	QC 1/2014	25	123	-	-	-	-	-	-	-	
Xylene	US ACGIH 4/2014	100	434	-	150	651	-	-	-	-	
	AB 4/2009	100	434	-	150	651	-	-	-	-	
	BC 7/2013	100	-	-	150	-	-	-	-	-	
	ON 1/2013	100	434	-	150	651	-	-	-	-	
	QC 1/2014	100	434	-	150	651	-	-	-	-	
Cumene	US ACGIH 4/2014	50	-	-	-	-	-	-	-	-	
	AB 4/2009	50	246	-	-	-	-	-	-	-	
	BC 7/2013	25	-	-	75	-	-	-	-	-	
	ON 1/2013	50	-	-	-	-	-	-	-	-	[1]
	QC 1/2014	50	246	-	-	-	-	-	-	-	
1,2,3-Trimethylbenzene	US ACGIH 6/2013	25	123	-	-	-	-	-	-	-	
	AB 4/2009	25	123	-	-	-	-	-	-	-	
	BC 7/2013	25	-	-	-	-	-	-	-	-	
	ON 1/2013	25	123	-	-	-	-	-	-	-	
	QC 12/2012	25	123	-	-	-	-	-	-	-	
Distillates (petroleum), hydrotreated light, as total hydrocarbon vapor	US ACGIH 4/2014	-	200	-	-	-	-	-	-	-	[1]
	AB 4/2009	-	200	-	-	-	-	-	-	-	[1]
Distillates (petroleum), hydrotreated light, as total hydrocarbon vapor	BC 7/2013	-	200	-	-	-	-	-	-	-	[1]
	ON 1/2013	-	200	-	-	-	-	-	-	-	[1]
Distillates (petroleum), hydrotreated light	US ACGIH 4/2014	25	123	-	-	-	-	-	-	-	
	AB 4/2009	25	123	-	-	-	-	-	-	-	
	BC 7/2013	25	-	-	-	-	-	-	-	-	
	ON 1/2013	25	123	-	-	-	-	-	-	-	
	QC 1/2014	25	123	-	-	-	-	-	-	-	
Mesitylene	US ACGIH 4/2014	-	-	-	-	-	-	-	100	-	[a]
	AB 4/2009	-	-	-	-	-	-	-	100	-	[3] [a]
	BC 7/2013	-	-	-	-	-	-	-	100	-	[a]
	ON 1/2013	-	-	-	-	-	-	-	100	-	[b]
	QC 1/2014	-	-	-	-	-	-	-	100	-	[c]
Ethanediol	ON 1/2013	-	-	-	-	-	-	50	-	-	[a]
	QC 1/2014	-	-	-	50	127	-	-	-	-	[d]
	ON 1/2013	-	-	-	-	-	-	-	-	-	[1]
	QC 1/2014	-	-	-	-	-	-	-	-	-	
	ON 1/2013	-	-	-	-	-	-	-	-	-	
Cymene	ON 1/2013	50	274	-	-	-	-	-	-	-	

Section 8. Exposure controls/personal protection

[1]Absorbed through skin. [3]Skin sensitization

Form: [a]Aerosol. [b]Particulate [c]Vapor [d]vapor and mist

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.

Individual protection measures

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 : Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Clear, waterlike.]

Color : Straw.

Odor : Solvent.

Odor threshold : Not available.

pH : Not available.

Melting point : Not available.

Section 9. Physical and chemical properties

Boiling point	: Not available.
Flash point	: Closed cup: 44.444°C (112°F) [Pensky-Martens.]
Evaporation rate	: <1 (Butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: 0.2 kPa (1.5 mm Hg) [room temperature]
Vapor density	: >1 [Air = 1]
Relative density	: 0.922
Solubility	: Slightly soluble in water.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): 0.17 cm ² /s (17 cSt)
Volatility	: Not available.
VOC (w/w)	: 100 % (w/w)

Section 10. Stability and reactivity

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. Do not allow vapor to accumulate in low or confined areas.
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

Product/ingredient name	Result	Species	Dose	Exposure
Light aromatic petroleum naphtha	LD50 Oral	Rat	8400 mg/kg	-
Trimethylbenzene	LD50 Oral	Rat	8970 mg/kg	-
2-Butoxyethanol	LC50 Inhalation Vapor	Rat	450 ppm	4 hours
	LD50 Dermal	Rabbit	220 mg/kg	-
1,2,4-Trimethylbenzene	LD50 Oral	Rat	250 mg/kg	-
	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Cumene	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours

Section 11. Toxicological information

2-Ethylhexan-1-ol	LD50 Oral	Rat	1400 mg/kg	-
	LD50 Dermal	Rabbit	1970 mg/kg	-
Mesitylene	LD50 Oral	Rat	3730 mg/kg	-
	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
Propylbenzene	LD50 Oral	Rat	5000 mg/kg	-
Ethanediol	LD50 Oral	Rat	6040 mg/kg	-
	LD50 Oral	Rat	4700 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Light aromatic petroleum naphtha	Eyes - Mild irritant	Rabbit	-	24 hours 100 µL	-
Trimethylbenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 µL	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Cumene	Skin - Moderate irritant	Rabbit	-	100%	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 10 mg	-
	Eyes - Mild irritant	Rabbit	-	86 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100 mg	-
2-Ethylhexan-1-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Moderate irritant	Rabbit	-	20 µg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	415 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Severe irritant	Rabbit	-	0.5 mL	-
Mesitylene	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
Ethanediol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	1 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	6 hours 1440 mg	-
	Skin - Mild irritant	Rabbit	-	555 mg	-

Sensitization

There is no data available.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
2-Butoxyethanol	-	3	-	A3	-	-
Xylene	-	3	-	A4	-	-
Cumene	-	2B	-	-	-	-
Distillates (petroleum), hydrotreated light	-	-	-	A3	-	-
Ethanediol	-	-	-	A4	-	None.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
1,2,4-Trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation
Cumene	Category 3	Not applicable.	Respiratory tract irritation
2-Ethylhexan-1-ol	Category 3	Not applicable.	Respiratory tract irritation
Distillates (petroleum), hydrotreated light	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Mesitylene	Category 3	Not applicable.	Respiratory tract irritation
Propylbenzene	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Distillates (petroleum), hydrotreated light	Category 2	Not determined	Not determined

Aspiration hazard

Name	Result
Light aromatic petroleum naphtha	ASPIRATION HAZARD - Category 1
Cumene	ASPIRATION HAZARD - Category 1
Cymene	ASPIRATION HAZARD - Category 1
Distillates (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1
Propylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Harmful in contact with skin. Causes skin irritation.
- Ingestion** : Harmful if swallowed. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

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:
respiratory tract irritation
coughing
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : Adverse symptoms may include the following:
nausea or vomiting

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

Long term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

Potential chronic health effects

- General** : May cause damage to organs through prolonged or repeated exposure.
- Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.

Section 11. Toxicological information

- 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

Route	ATE value
Oral	912.7 mg/kg
Dermal	1198.2 mg/kg
Inhalation (gases)	122150 ppm
Inhalation (vapors)	60.36 mg/L

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Trimethylbenzene	Acute LC50 5600 µg/L Marine water	Crustaceans - Palaemonetes pugio	48 hours
2-Butoxyethanol	Acute EC50 >1000 mg/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000 mg/L Marine water	Crustaceans - Chaetogammarus marinus - Young	48 hours
1,2,4-Trimethylbenzene	Acute LC50 1250000 µg/L Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 4910 µg/L Marine water	Crustaceans - Elasmopus pecteniscrus - Adult	48 hours
Xylene	Acute LC50 22.4 mg/L Fresh water	Fish - Tilapia zillii	96 hours
	Acute IC50 10 mg/L	Algae	72 hours
	Acute LC50 8500 µg/L Marine water	Crustaceans - Palaemonetes pugio	48 hours
Cumene	Acute LC50 13400 µg/L Fresh water	Fish - Pimephales promelas	96 hours
	Acute EC50 2600 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11200 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 7400 µg/L Fresh water	Crustaceans - Artemia sp. - Nauplii	48 hours
2-Ethylhexan-1-ol	Acute LC50 2700 µg/L Fresh water	Fish - Oncorhynchus mykiss	96 hours
Distillates (petroleum), hydrotreated light	Acute LC50 28200 µg/L Fresh water	Fish - Pimephales promelas	96 hours
Mesitylene	Acute LC50 2200 µg/L Fresh water	Fish - Lepomis macrochirus	4 days
	Acute LC50 13000 µg/L Marine water	Crustaceans - Cancer magister - Zoea	48 hours
	Acute LC50 12520 to 15050 µg/L Fresh water	Fish - Carassius auratus	96 hours
Propylbenzene	Chronic NOEC 400 µg/L Fresh water	Daphnia - Daphnia magna	21 days
	Acute EC50 1800 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 1550 µg/L Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ethanediol	Acute LC50 100000 µg/L Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 10000000 µg/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 8050000 µg/L Fresh water	Fish - Pimephales promelas	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Ethanediol	-	-	Readily

Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
Trimethylbenzene	3.4 to 3.8	-	low
2-Butoxyethanol	0.81	-	low
1,2,4-Trimethylbenzene	3.63	243	low
Xylene	3.12	8.1 to 25.9	low
Cumene	3.55	94.69	low
Cymene	4.1	-	high
2-Ethylhexan-1-ol	2.9	25.33	low
1,2,3-Trimethylbenzene	3.66	194.98	low
Mesitylene	3.42	161	low
Propylbenzene	3.69	-	low
Ethanediol	-1.36	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : There is no data available.

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

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should 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 empty 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.

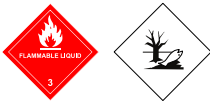



United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Xylene	1330-20-7	Listed	U239
Cumene	98-82-8	Listed	U055

Section 14. Transport information

	DOT	TDG	IMDG	IATA
UN number	UN1268	UN1268	UN1268	UN1268
UN proper shipping name	PETROLEUM DISTILLATES, N.O.S. (Light aromatic petroleum naphtha, Trimethylbenzene). Marine pollutant (Cumene, Cymene) RQ (Xylene)	PETROLEUM DISTILLATES, N.O.S. (Light aromatic petroleum naphtha, Trimethylbenzene)	PETROLEUM DISTILLATES, N.O.S. (Light aromatic petroleum naphtha, Trimethylbenzene). Marine pollutant (1,2,4-Trimethylbenzene, Cumene)	PETROLEUM DISTILLATES, N.O.S. (Light aromatic petroleum naphtha, Trimethylbenzene)

Section 14. Transport information

Transport hazard class(es)	3 	3 	3 	3 
Packing group	III	III	III	III
Environmental hazards	Yes.	Yes.	Yes.	No.
Additional information	<p>This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids, that are marine pollutants, are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by vessel.</p> <p>The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes.</p> <p>Reportable quantity 1428.6 lbs / 648.57 kg [185.83 gal / 703.44 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.</p> <p>Remarks Limited Quantity Exemption</p>	<p>The marine pollutant mark is not required when transported by road or rail.</p> <p>Remarks Limited Quantity Exemption</p>	<p>The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.</p> <p>Emergency schedules (EmS) F-E,S-E</p> <p>Remarks Limited Quantity Exemption</p>	<p>The environmentally hazardous substance mark may appear if required by other transportation regulations.</p> <p>Remarks Limited Quantity Exemption</p>

AERG : 128

DOT-RQ Details : Xylene 100 lbs / 45.4 kg [13.946 gal / 52.791 L]

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 12(b) one-time export:** Propylbenzene
United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 307: Ethylbenzene
Clean Water Act (CWA) 311: Xylene; Ethylbenzene

Section 15. Regulatory information

Clean Air Act Section 112 : Listed

(b) Hazardous Air Pollutants (HAPs)

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 I Chemicals (Precursor Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Fire hazard
Immediate (acute) health hazard
Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Light aromatic petroleum naphtha	30 - 60	Yes.	No.	No.	No.	No.
Trimethylbenzene	30 - 60	Yes.	No.	No.	Yes.	No.
2-Butoxyethanol	10 - 30	Yes.	No.	No.	Yes.	No.
1,2,4-Trimethylbenzene	10 - 30	Yes.	No.	No.	Yes.	No.
Xylene	5 - 10	Yes.	No.	No.	Yes.	No.
Cumene	5 - 10	Yes.	No.	No.	Yes.	No.
Cymene	1 - 5	Yes.	No.	No.	No.	No.
2-Ethylhexan-1-ol	1 - 5	Yes.	No.	No.	Yes.	No.
1,2,3-Trimethylbenzene	0.1 - 1	Yes.	No.	No.	Yes.	No.
Distillates (petroleum), hydrotreated light	0.1 - 1	Yes.	No.	No.	Yes.	Yes.
Mesitylene	0.1 - 1	Yes.	No.	No.	Yes.	No.
Propylbenzene	0.1 - 1	Yes.	No.	No.	Yes.	No.
Ethanediol	0.1 - 1	No.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	2-Butoxyethanol	111-76-2	10 - 30
	1,2,4-Trimethylbenzene	95-63-6	10 - 30
	Xylene	1330-20-7	5 - 10
	Cumene	98-82-8	5 - 10
	Ethanediol	107-21-1	0.1 - 1
Supplier notification	2-Butoxyethanol	111-76-2	10 - 30
	1,2,4-Trimethylbenzene	95-63-6	10 - 30
	Xylene	1330-20-7	5 - 10
	Cumene	98-82-8	5 - 10
	Ethanediol	107-21-1	0.1 - 1

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

Section 15. Regulatory information

- Massachusetts** : The following components are listed: Trimethylbenzene; 2-Butoxyethanol; 1,2,4-Trimethylbenzene; Xylene; Cumene; 2-Ethylhexan-1-ol; 1,2,3-Trimethylbenzene; Mesitylene; Propylbenzene; Ethanediol
- New York** : The following components are listed: Xylene; Cumene; Ethanediol
- New Jersey** : The following components are listed: Trimethylbenzene; 2-Butoxyethanol; 1,2,4-Trimethylbenzene; Xylene; Cumene; Cymene; 1,2,3-Trimethylbenzene; Mesitylene; Propylbenzene; Ethanediol
- Pennsylvania** : The following components are listed: Trimethylbenzene; 2-Butoxyethanol; 1,2,4-Trimethylbenzene; Xylene; Cumene; 2-Ethylhexan-1-ol; 1,2,3-Trimethylbenzene; Oleic acid; Mesitylene; Propylbenzene; Ethanediol

California Prop. 65

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

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Cumene Ethylbenzene	Yes. Yes.	No. No.	No. 41 µg/day (ingestion) 54 µg/day (inhalation)	No. No.

Canada

Canadian lists

- Canadian NPRI** : The following components are listed: Light aromatic petroleum naphtha; Trimethylbenzene; 2-Butoxyethanol; 1,2,4-Trimethylbenzene; Xylene; Cumene; 1,2,3-Trimethylbenzene; Distillates (petroleum), hydrotreated light; Mesitylene; Ethanediol
- CEPA Toxic substances** : The following components are listed: 2-Butoxyethanol
- Canada inventory** : All components are listed or exempted.

International lists

National inventory

- Australia** : All components are listed or exempted.
- China** : All components are listed or exempted.
- Europe** : All components are listed or exempted.
- Japan** : Not determined.
- Malaysia** : Not determined.
- New Zealand** : Not determined.
- Philippines** : All components are listed or exempted.
- Republic of Korea** : Not determined.
- Taiwan** : Not determined.

Section 16. Other information

History

- Date of issue mm/dd/yyyy** : 05/01/2015
- Version** : 1
- Prepared by** : KMK Regulatory Services Inc.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.