

# Safety Data Sheet CFI-1912 kh1

# 1. Product and company identification

Product name : CFI-1912 kh1
Internal code : IFS0350
System code : IFS0350

Supplier : Innospec Fuel Specialties LLC

8310 South Valley Highway

Suite 350 Englewood CO, 80112 USA

Information contact : 1-800-441-9547

e-mail address of person responsible for this SDS

: sdsinfo@innospecinc.com

NON-emergency enquiries : corporatecommunications@innospecinc.com

#### **Emergency telephone number**

In USA, Canada and North America, 24 hour / 7 day emergency information for our product is provided by the CHEMTREC® Emergency Call Center based in the USA

#### **Country information**

USA, Canada, Puerto Rico, Virgin Islands : +1 800 424 9300 In case of difficulties, or for ships at sea : +1 703 527 3887

In Europe, Middle East, Africa, Asia Pacific and South America 24 hour / 7 day emergency response for our products is provided by the NCEC CARECHEM 24 global network



#### **Country information**

number

South America (all countries) +1 215 207 0061 Philadelphia USA

+55 113 711 9144 Brazil Brazil +52 555 004 8763 Mexico Mexico Europe (all countries) Middle East, Africa (French, Portuguese, English) +44 (0) 1235 239 670 London, UK Middle East, Africa (Arabic, French, English) +44 (0) 1235 239 671 Lebanon Asia Pacific (all countries except China) +65 3158 1074 Singapore China +86 10 5100 3039 Beijing China

#### Section 2. Hazards identification

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

: Emergency telephone number

### Section 2. Hazards identification

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION (Unborn child) - Category 2

**GHS label elements** 

Hazard pictograms



Signal word : Warning

**Hazard statements**: H226 - Flammable liquid and vapor.

H302 + H332 - Harmful if swallowed or if inhaled. H315 + H320 - Causes skin and eye irritation. H361 - Suspected of damaging the unborn child.

H351 - Suspected of causing cancer.

#### **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.

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.

P261 - Avoid breathing vapor.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash hands thoroughly after handling.

Response : P308 + P313 - IF exposed or concerned: Get medical attention.

P304 + P310 + 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 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P302 + P352 + P362-2 - IF ON SKIN: Wash with plenty of soap and water. 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

: None known.

Date of issue/Date of revision

: 2015-05-04

### Section 2. Hazards identification

**Target organs** 

: Contains material which causes damage to the following organs: blood, kidneys, liver, gastrointestinal tract, skin, central nervous system (CNS), eye, lens or cornea. Contains material which may cause damage to the following organs: the nervous system, upper respiratory tract, ears.

See toxicological information (Section 11)

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Xylene	60 - 100	1330-20-7
ethylbenzene	15 - 30	100-41-4
Solvent naphtha (petroleum), light arom.	0.99 - 4.99	<mark>6474</mark> 2-95-6
2-ethylhexan-1-ol	0.99 - 4.99	104-76-7
2-(2-methoxyethoxy)ethanol	0.99 - 4.99	111-77-3
naphthalene	0.09 - 0.99	91-20-3
Proprietary	Proprietary	-7

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 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.

Ingestion

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. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. 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/effects, acute and delayed

Potential acute health effects

### Section 4. First aid measures

**Eye contact** : Causes serious eye irritation.

: Harmful if inhaled. Inhalation Causes skin irritation. Skin contact

Ingestion : Harmful if swallowed. 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:

reduced fetal weight increase in fetal deaths skeletal malformations

: Adverse symptoms may include the following: Skin contact

> irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

> reduced fetal weight increase in fetal deaths skeletal malformations

#### 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.

: Do not use water jet.

**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<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing** 

Specific hazards arising

from the chemical

Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

**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 Flash point

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

: Closed cup: 29.444°C (85°F) [Pensky-Martens.]

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#### 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 specialised 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 nonemergency 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 containment 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). Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. 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.

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 a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). 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.

Storage Temperature: Ambient.

Date of issue/Date of revision

2015-05-04

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits		
Xylene	ACGIH TLV (United States, 4/2014).  TWA: 100 ppm, 0 times per shift, 8 hours.  TWA: 434 mg/m³, 0 times per shift, 8 hours.  STEL: 150 ppm, 0 times per shift, 15 minutes.  STEL: 651 mg/m³, 0 times per shift, 15 minutes.  OSHA PEL 1989 (United States, 3/1989).  TWA: 100 ppm, 0 times per shift, 8 hours.  TWA: 435 mg/m³, 0 times per shift, 8 hours.  STEL: 150 ppm, 0 times per shift, 15 minutes.  STEL: 655 mg/m³, 0 times per shift, 15 minutes.  OSHA PEL (United States, 2/2013).  TWA: 100 ppm, 0 times per shift, 8 hours.  TWA: 435 mg/m³, 0 times per shift, 8 hours.		
ethylbenzene	ACGIH TLV (United States, 4/2014).  TWA: 20 ppm, 0 times per shift, 8 hours.  OSHA PEL 1989 (United States, 3/1989).  TWA: 100 ppm, 0 times per shift, 8 hours.  TWA: 435 mg/m³, 0 times per shift, 15 minutes.  STEL: 125 ppm, 0 times per shift, 15 minutes.  STEL: 545 mg/m³, 0 times per shift, 15 minutes.  NIOSH REL (United States, 10/2013).  TWA: 100 ppm, 0 times per shift, 10 hours.  TWA: 435 mg/m³, 0 times per shift, 10 hours.  STEL: 125 ppm, 0 times per shift, 15 minutes.  STEL: 545 mg/m³, 0 times per shift, 15 minutes.  OSHA PEL (United States, 2/2013).  TWA: 100 ppm, 0 times per shift, 8 hours.  TWA: 435 mg/m³, 0 times per shift, 8 hours.		
naphthalene	ACGIH TLV (United States, 4/2014). Absorbed through skin.  TWA: 10 ppm, 0 times per shift, 8 hours.  TWA: 52 mg/m³, 0 times per shift, 8 hours.  OSHA PEL 1989 (United States, 3/1989).  TWA: 10 ppm, 0 times per shift, 8 hours.  TWA: 50 mg/m³, 0 times per shift, 15 minutes.  STEL: 15 ppm, 0 times per shift, 15 minutes.  NIOSH REL (United States, 10/2013).  TWA: 10 ppm, 0 times per shift, 10 hours.  TWA: 50 mg/m³, 0 times per shift, 10 hours.  STEL: 15 ppm, 0 times per shift, 15 minutes.  STEL: 75 mg/m³, 0 times per shift, 15 minutes.  STEL: 75 mg/m³, 0 times per shift, 15 minutes.  OSHA PEL (United States, 2/2013).  TWA: 10 ppm, 0 times per shift, 8 hours.  TWA: 50 mg/m³, 0 times per shift, 8 hours.		
Proprietary	ACGIH TLV (United States, 4/2014).  TWA: 5 mg/m³, 0 times per shift, 8 hours. Form: Inhalable fraction and vapor		

# Section 8. Exposure controls/personal protection

# 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 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 antistatic 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

Liquid.

#### **Appearance**

Physical state

ight vollow to

Color

Light yellow to dak amberAromatic.

**Odor threshold** 

: Not available.

Melting point

Not available.Not available.

**Boiling point** 

: Lowest known value: 136.05°C (276.9°F) (ethylbenzene). Weighted average: 140.64°C (285.2°F)

Flash point

: Closed cup: 29.444°C (85°F) [Pensky-Martens.]

**Evaporation rate** 

: Highest known value: 0.84 (ethylbenzene) Weighted average: 0.75compared with butyl acetate

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2015-05-04

# Section 9. Physical and chemical properties

Flammability (solid, gas)

Lower and upper explosive (flammable) limits

: Not available.

: Greatest known range: Lower: 1.6% Upper: 18.1% (diethylene glycol monomethyl ether)

Vapor pressure

: Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted

average: 0.84 kPa (6.3 mm Hg) (at 20°C)

Vapor density : Highest known value: 4.49 (Air = 1) (2-ethylhexan-1-ol). Weighted average: 3.74 (Air

= 1)

Specific gravity: 0.88 [ASTM D 4052]

Density : 7.33 lbs/gal

**Solubility**: Insoluble in the following materials: cold water, hot water.

Partition coefficient: n-

octanol/water

: Not available.

**Auto-ignition temperature** : Lowest known value: 215°C (419°F) (diethylene glycol monomethyl ether).

**Decomposition temperature** : Not available. **Viscosity** : Not available.

# Section 10. Stability and reactivity

Reactivity
Chamical stability

: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

: Incompatible with fluorine.

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**

Product/ingredient name	Test	Species	Result	Dose
xylene	-	Rabbit	LD50 Dermal	4320 mg/kg
	-	Rat	LD50 Oral	4300 mg/kg
ethylbenzene	7,7	Mouse	LC50 Inhalation Vapor	35500 mg/m <sup>3</sup>
	Y.A	Rabbit	LC50 Inhalation Vapor	4000 ppm
	-	Rabbit	LD50 Dermal	>5000 mg/kg
Solvent naphtha (petroleum), light arom.	-0	Rat	LD50 Oral	8400 mg/kg
2-ethylhexan-1-ol	4	Rabbit	LD50 Dermal	1970 mg/kg
	-	Rat	LD50 Oral	3730 mg/kg
naphthalene	-	Rat	LC50 Inhalation Vapor	>340 mg/m <sup>3</sup>
	-	Rabbit	LD50 Dermal	>2000 mg/kg
	-	Rat	LD50 Dermal	>2500 mg/kg
	-	Rat	LD50 Oral	490 mg/kg
Proprietary	<b> -</b>	Rabbit	LD50 Dermal	>2000 mg/kg
	<u> -</u>	Rat	LD50 Oral	3640 mg/kg

#### Potential chronic health effects

# Section 11. Toxicological information

Not available.

#### **Irritation/Corrosion**

Product/ingredient name	Test	Species	Result
xylene	-	Rabbit	Eyes - Severe irritant -
	-	Rat	Skin - Mild irritant -
	-	Rabbit	Skin - Moderate irritant -
ethylbenzene	-	Rabbit	Eyes - Severe irritant -
	-	Rabbit	Skin - Mild irritant -
Solvent naphtha (petroleum), light arom.	-	Rabbit	Eyes - Mild irritant -
2-ethylhexan-1-ol	-	Rabbit	Eyes - Moderate irritant -
_	-	Rabbit	Skin - Moderate irritant -
diethylene glycol monomethyl ether	-	Rabbit	Eyes - Mild irritant -
	-	Rabbit	Eyes - Moderate irritant -
Proprietary	-	Rabbit	Skin - Mil <mark>d irritant</mark> -

#### **Sensitization**

Product/ingredient name	Test	Species	Result
2-ethylhexan-1-ol	-	Guinea pig	Not sensitizing -

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Xylene	-	3	
ethylbenzene	-	2B	
naphthalene	-	2B	Reasonably anticipated to be a human carcinogen.

#### **Reproductive toxicity**

Product/ingredient name	Test	. 0	Species	Result	Dose
Proprietary			Female	Developmental effects Unborn child	Oral: 600 mg/kg

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

# **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Xylene	Acute LC50 3.3 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella	72 hours
		subcapitata	
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella	96 hours
		subcapitata	
	Acute EC50 7.2 mg/l	Algae	48 hours
	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours
	Chronic NOEC <1000 µg/l Fresh water	Algae - Pseudokirchneriella	96 hours
		subcapitata	
	Chronic NOEC 6800 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
2-ethylhexan-1-ol	Acute EC50 11.5 mg/l	Algae	72 hours
	Acute EC50 39 mg/l	Daphnia	48 hours
	Acute LC50 10 to 33 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
2-(2-methoxyethoxy)ethanol	Acute LC50 7500000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
naphthalene	Acute EC50 1.96 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2350 µg/l Marine water	Crustaceans - Palaemonetes	48 hours
		pugio	
	Acute LC50 1.6 mg/l	Fish	96 hours
Proprietary	EC50 85.4 mg/l	Daphnia	48 hours

#### Persistence and degradability

Product/ingredient name	Test		Re	sult
2-ethylhexan-1-ol	OECD 301F Ready Biodegra Respirometry Test	,		% - Readily - 28 days
Proprietary	- ' '	- '		% - Readily - 20 days % - Readily - 10 days
Product/ingredient name	Aquatic half-life	Photolysis		Biodegradability
Xylene ethylbenzene 2-ethylhexan-1-ol Proprietary		35		Readily Readily Readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Xylene	3.12 to 3.2	8.1 to 25.9	low
ethylbenzene	3.1	-	low
Solvent naphtha (petroleum),		10 to 2500	high
light arom.	- N		
2-ethylhexan-1-ol	2.3 to 3.1	-	low
2-(2-methoxyethoxy)ethanol	-1.14 to 0.93	-	low
naphthalene	3.3	>100	low
Proprietary	2.7	-	low

# Section 13. Disposal considerations

The generation of waste should be avoided or minimized wherever possible. Disposal 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

# Section 13. Disposal considerations

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.

# **Section 14. Transport information**

	DOT Classification	IMDG	IATA
UN number	UN1993	UN1993	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (xylene, ethylbenzene) RQ (xylene, ethylbenzene)	FLAMMABLE LIQUID, N.O.S. (xylene, ethylbenzene)	Flammable liquid, n.o.s. (xylene, ethylbenzene)
Transport hazard class(es)	3 TLAMINETE LIDID	3	3
Packing group	III	III	Ш
Environmental hazards	No.	No.	No.
Additional information	Reportable quantity 152.78 lbs / 69.361 kg [20.822 gal / 78.819 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	Emergency schedules (EmS) F-E, _S-E_ Special provisions 223, 274, 955	Passenger and Cargo Aircraft Quantity limitation: 60 L Packaging instructions: 355 Cargo Aircraft Only Quantity limitation: 220 L Packaging instructions: 366 Limited Quantities - Passenger Aircraft Quantity limitation: 10 L Packaging instructions: Y344 Special provisions A3

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.

# Section 15. Regulatory information

U.S. Federal regulations

: United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 307: ethylbenzene; naphthalene

Clean Air Act Section 112 : Listed

(b) Hazardous Air **Pollutants (HAPs) SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

# Section 15. Regulatory information

#### **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
Xylene ethylbenzene	60 - 100 15 - 30	Yes. Yes.	No. No.	No. No.	Yes. Yes.	No. Yes.
Solvent naphtha (petroleum), light arom.	0.99 - 4.99	Yes.	No.	No.	Yes.	No.
2-ethylhexan-1-ol	0.99 - 4.99	Yes.	No.	No.	Yes.	No.
2-(2-methoxyethoxy)ethanol	0.99 - 4.99	Yes.	No.	No.	No.	Yes.
naphthalene	0.09 - 0.99	No.	No.	No.	Yes.	Yes.
Proprietary	Proprietary	No.	No.	No.	No.	Yes.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	xylene ethylbenzene diethylene glycol monomethyl ether naphthalene	1330-20-7 100-41-4 111-77-3 91-20-3	60 - 100 15 - 30 0.99 - 4.99 0.09 - 0.99
Supplier notification	xylene ethylbenzene diethylene glycol monomethyl ether naphthalene	1330-20-7 100-41-4 111-77-3 91-20-3	60 - 100 15 - 30 0.99 - 4.99 0.09 - 0.99

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: XYLENE; DIETHYLENE GLYCOL METHYL

ETHER; 2-ETHYLHEXANOL

**New York** 

: The following components are listed: Xylene (mixed); Naphthalene

New Jersey

: The following components are listed: XYLENES; BENZENE, DIMETHYL-; NAPHTHALENE; MOTH FLAKES; GLYCOL ETHERS

**Pennsylvania** 

: The following components are listed: BENZENE, DIMETHYL-; NAPHTHALENE; ETHANOL, 2-(2-METHOXYETHOXY)-; 1-HEXANOL, 2-ETHYL-

California Prop. 65

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

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level	Contains: % or ppm
ethylbenzene	Yes.	No.	41 µg/day (ingestion) 54 µg/day (inhalation)	No.	15 - 30
naphthalene	Yes.	No.	Yes.	No.	0.09 - 0.99
Proprietary	No.	Yes.	No.	No.	0.09 - 0.99
cumene	Yes.	No.	No.	No.	<100ppm
ethylene glycol monomethyl	No.	Yes.	No.	63 μg/day	<10ppm

CFI-1912 kh1

# Section 15. Regulatory information

ether (ingestion)

**International lists** 

**National inventory** 

**Australia inventory (AICS)** 

**Canada inventory** 

China inventory (IECSC)

**Europe inventory** 

Japan inventory (ENCS)

**New Zealand Inventory of Chemicals (NZIoC)** 

**Philippines inventory (PICCS)** 

Korea inventory (KECI)
Taiwan inventory (TCSI)

**United States inventory (TSCA 8b)** 

: At least one component is not listed.

: Not determined.

Not determined.

Not determined.

: At least one component is not listed.

Not determined.

Tiot dotominod.

Not determined.Not determined.

. Not actermined.

Not determined.

: All components are listed or exempted.

Our REACH (pre-) registrations DO NOT cover the following:

1. The manufacture of these products by our company outside the EU unless covered by the Only Representative provisions, and

2. The importation of these products into Europe by other companies. Re-importation by other companies is not cove<mark>red by our (pre-) registrations Customers and other third parties importing and/or re-importing our products into Europe will need either:</mark>

- Their own (pre-) registration for substances contained in the imported product, or constituent monomers (imported above 1 tonne per year and >2% by weight) in the case of imported polymers, or

- In the case of importation only, to make use of the "Only Representative" provisions, if available.

### 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 are not required on SDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

#### 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.

#### Classification according to Directive 67/548/EEC [DSD] or Classification according to Directive 1999/45/EC [DPD]

Risk phrases : R10- Flammable.

R20/21- Harmful by inhalation and in contact with skin.

R38- Irritating to skin.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Safety phrases : S36/37- Wear suitable protective clothing and gloves.

### Section 16. Other information

#### **History**

: 2015-05-04 **Date of printing** Date of issue/Date of 2015-05-04

revision

Date of previous issue : 2015-04-23

**Version** : 1.01

**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 = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the

Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

▼ Indicates information that has changed from previously issued version.

#### **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.

