

### SAFETY DATA SHEET

### **OPS 2501**

### **Section 1. Identification**

**GHS** product identifier

: OPS 2501

Other means of identification

: Proprietary Mixture Paraffin Solvent

**Product use** 

: Not available.

**Product type** 

: Liquid.

Manufacturer

: Jacam Manufacturing 2013, L.L.C.

P.O.Box 208, 1656 Ave. Q. Sterling, Kansas 67579

Validation date

: 9/1/2016.

For Chemical Emergency Spill, Leak Fire, Exposure or

Accident:

: Call CHEMTREC Day or Night

Within USA and Canada 800-424-9300 CCN# 11754

Or +1 703-527-3887 (Collect calls accepted)

Direct all other calls to:

Jacam Chemicals 2013, L.L.C. 620-278-3355

Mon - Fri 8 a.m. to 5 p.m. (Closed on major holidays)

Supplier's details

: Jacam Chemicals 2013, L.L.C. P.O. Box 96, 205 S. Broadway

Sterling, Kansas 67579

# Section 2. Hazards identification

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 2

ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

CARCINOGENICITY - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 44.4%

### Section 2. Hazards identification

### **GHS label elements**

**Hazard pictograms** 







Signal word

Danger **Hazard statements** : H225 - Highly flammable liquid and vapor.

H332 - Harmful if inhaled.

H319 - Causes serious eye irritation. H315 - Causes skin irritation. H351 - Suspected of causing cancer.

### **Precautionary statements**

General : P103 - Read label before use.

P102 - Keep out of reach of children.

P101 - If medical advice is needed, have product container or label at hand.

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: > 8 hours (breakthrough time): nitrile rubber. Wear eye

or face protection: Recommended: chemical splash goggles.

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.

P264 - Wash hands thoroughly after handling.

Response P308 + P313 - IF exposed or concerned: Obtain 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.

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: Obtain medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Obtain medical attention.

. - Store in accordance with all local, regional, national and international regulations. Storage

P403 - Store in a well-ventilated place.

P235 - Keep cool.

: P501 - Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Hazards not otherwise

classified

Disposal

: None known.

Routes of entry : Dermal contact. Eye contact. Inhalation.

### Section 2. Hazards identification

INGESTION: Although not a normal route of entry, ingestion is expected to be harmful. DO NOT TAKE INTERNALLY. FOR INDUSTRIAL USE ONLY.

### **Target organs**

Causes damage to the following organs: upper respiratory tract.

May cause damage to the following organs: kidneys, liver, mucous membranes, skin,

eyes, central nervous system (CNS).

Contains material which may cause damage to the following organs: blood, the nervous system, spleen, gastrointestinal tract, cardiovascular system, ears, eye, lens or cornea.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

**Chemical name** 

: Not available.

Other means of identification

: Proprietary Mixture

Paraffin Solvent

### **CAS** number/other identifiers

**CAS** number

: Not applicable.

Ingredient name	%	CAS number
Xylene	30 - 60	1330-20-7
Ethylbenzene	10 - 30	100-41-4
Oxyalkylated Resins	1 - 5	9016-45-9
Proprietary	1 - 5	Proprietary

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 15 minutes. If irritation persists, obtain 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. If irritation persists, obtain 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 15 minutes. If irritation persists, obtain medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

### Section 4. First aid measures

### 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. If irritation persists, obtain medical attention. 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

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

Inhalation : Harmful if inhaled.

May cause respiratory irritation.

**Skin contact** : Causes skin irritation.

Ingestion : Irritating to mouth, throat and stomach. Aspiration hazard if swallowed. Can enter

lungs and cause damage.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache dizziness/vertigo drowsiness/fatigue unconsciousness

**Skin contact** : Adverse symptoms may include the following:

irritation redness

**Ingestion**: Adverse symptoms may include the following:

Irritation of the mucous membranes of the mouth, throat and esophagus.

Symptoms similar to those of inhalation.

### Specific target organ toxicity (single exposure)

Name Category Route of Target organs

exposure

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Name Result

Ethylbenzene ASPIRATION HAZARD - Category 1

### Indication of immediate medical attention and special treatment needed, if necessary

Date of issue/Date of revision 9/1/2016. People + Products 

→ Performance Version : 2.06

### Section 4. First aid measures

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

**Protection of first-aiders** 

- No specific treatment.
- : 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, CO2, water spray (fog) or foam.

Unsuitable extinguishing media

: Do not use water jet.

Specific hazards arising from the chemical

: Highly 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. 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. Runoff to sewer may create fire or explosion hazard.

Additional Vapor Statement : Not available.

Not available.

**Hazardous thermal** decomposition products

: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides

nitrogen oxides unburned hydrocarbons

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.

Remark Remark

: Not available. : Not available.

### 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.

### Section 6. Accidental release measures

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 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 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 noncombustible, 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 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.

# including any incompatibilities

**Conditions for safe storage,** : 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 in accordance with all local, regional, national and international regulations. 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**

### **Occupational exposure limits**

Ingredient name	Exposure limits
Kylene	ACGIH TLV (United States, 4/2014).
	TWA: 100 ppm 8 hours.
	TWA: 434 mg/m³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 651 mg/m³ 15 minutes.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 655 mg/m³ 15 minutes.
	OSHA PEL (United States, 2/2013).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m <sup>3</sup> 8 hours.
Ethylbenzene	ACGIH TLV (United States, 4/2014).
	TWA: 20 ppm 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m³ 8 hours.
	STEL: 125 ppm 15 minutes.
	STEL: 545 mg/m³ 15 minutes.
	NIOSH REL (United States, 10/2013).
	TWA: 100 ppm 10 hours.
	TWA: 435 mg/m³ 10 hours.
	STEL: 125 ppm 15 minutes.
	STEL: 545 mg/m³ 15 minutes.
	OSHA PEL (United States, 2/2013).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m³ 8 hours.
Proprietary	ACGIH TLV (United States, 4/2014).
. ,	TWA: 20 ppm 8 hours.
	STEL: 75 ppm 15 minutes.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 50 ppm 8 hours.
	TWA: 205 mg/m³ 8 hours.
	STEL: 75 ppm 15 minutes.
	STEL: 300 mg/m³ 15 minutes.
	NIOSH REL (United States, 10/2013).
	TWA: 50 ppm 10 hours.
	TWA: 205 mg/m³ 10 hours.
	STEL: 75 ppm 15 minutes.
	STEL: 300 mg/m³ 15 minutes.
	OSHA PEL (United States, 2/2013).
	TWA: 100 ppm 8 hours.
	TWA: 410 mg/m³ 8 hours.
umene	OSHA PEL 1989 (United States, 3/1989).
	Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 30 ppm a hours.
	NIOSH REL (United States, 10/2013).
	Absorbed through skin.
	TWA: 50 ppm 10 hours.
	TWA: 50 ppm 10 hours. TWA: 245 mg/m³ 10 hours.
	LVVA. Z43 MU/M* TU NOUES.

# Section 8. Exposure controls/personal protection

ACGIH TLV (United States, 4/2014).

TWA: 50 ppm 8 hours.

OSHA PEL (United States, 2/2013).

Absorbed through skin. TWA: 50 ppm 8 hours.

TWA: 245 mg/m<sup>3</sup> 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 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.

### 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 Recommended: 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. > 8 hours (breakthrough time): nitrile rubber

### **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. Recommended: overall safety apron

### 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. Recommended: nitrile rubber

### **Respiratory protection**

: Use a properly fitted, air-purifying or air-fed 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.

# Personal protective equipment (Pictograms)



: 2.06

# Section 9. Physical and chemical properties

**Appearance** 

: Liquid. [Clear.] **Physical state** 

Color : Red Odor : Aromatic. **Odor threshold** Not available.

pH : 8 to 9

**Melting point** : Not available. **Boiling point** : 138.5°C (281.3°F)

: Closed cup: 18.333°C (65°F) [Pensky-Martens.] Flash point

**Burning time** : Not applicable. **Burning rate** : Not applicable. **Evaporation rate** : Not available. Flammability (solid, gas) : Not available. Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available. Vapor density : >1 [Air = 1] Relative density : 0.79 to 0.83

**Density** : 6.59 to 6.85 (lbs/gal)

Solubility : Partially soluble in the following materials: cold water.

Partition coefficient: n-octanol/

: Not available.

**Auto-ignition temperature** : Not available. : Not available. **Decomposition temperature** : Not available. SADT : Not available. **Viscosity** Type of aerosol : Not applicable.

Heat of combustion : Not available. Ignition distance : Not applicable.

Enclosed space ignition -

Time equivalent

: Not applicable.

**Enclosed space ignition -**

**Deflagration density** 

: Not applicable.

Flame height : Not applicable. Flame duration : Not applicable.

# Section 10. Stability and reactivity

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

**Chemical stability** : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

# Section 10. Stability and reactivity

**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

al effects			
Result	Species	Dose	Exposure
LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
LD50 Oral	Rat	4300 mg/kg	- '
LD50 Dermal	Rabbit	>5000 mg/kg	-
LD50 Oral	Rat	3500 mg/kg	-
LD50 Oral	Rat	2080 mg/kg	-
LC50 Inhalation Vapor	Rat	39000 mg/m <sup>3</sup>	4 hours
LD50 Oral	Rat	1400 mg/kg	-
	Result  LC50 Inhalation Gas.  LD50 Oral  LD50 Dermal  LD50 Oral  LD50 Oral  LC50 Inhalation Vapor	ResultSpeciesLC50 Inhalation Gas.RatLD50 OralRatLD50 DermalRabbitLD50 OralRatLD50 OralRatLC50 Inhalation VaporRat	Result         Species         Dose           LC50 Inhalation Gas.         Rat         5000 ppm           LD50 Oral         Rat         4300 mg/kg           LD50 Dermal         Rabbit         >5000 mg/kg           LD50 Oral         Rat         3500 mg/kg           LD50 Oral         Rat         2080 mg/kg           LC50 Inhalation Vapor         Rat         39000 mg/m³

**Conclusion/Summary**: Not available.

Irritation/Corrosion					
Product/ingredient name	Result	Species	Score	Exposure	Observation
Kylene	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	-
				milligrams	
	Skin - Moderate irritant	Rabbit	· 🛥	100 Percent	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				milligrams	
Oxyalkylated Resins	Eyes - Severe irritant	Guinea pig	-	20 milligrams	
	Eyes - Severe irritant	Mouse	-	20 milligrams	
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Human	-	72 hours 15	-
				milligrams	
				Intermittent	
	Skin - Mild irritant	Rabbit	-	500	-
				milligrams	
Proprietary	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				microliters	
	Eyes - Severe irritant	Rabbit	-	40 milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
		D 11.		milligrams	
cumene	Eyes - Mild irritant	Rabbit	-	24 hours 500	(
		D 11"		milligrams	
	Eyes - Mild irritant	Rabbit	-	86 milligrams	-
Date of issue/Date of revision	9/1/2016. <b>People + P</b>	roducts 👄 Perfor	rmance™	Version :	2.06

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9/1/2016.

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	Skin - Mild irritant	Rabbit	- 24	hours 10 -
	- Action Plants and	D 1111		ligrams
	Skin - Moderate irritant	Rabbit		hours 100 - ligrams
Skin	: Not available.			
Eyes	: Not available.			
Respiratory	: Not available.			
<u>Sensitization</u>				
Product/ingredient name	Route of Spec exposure	ies	Result	
Not available.				
Skin	: Not available.			
Respiratory	: Not available.			
<u>Mutagenicity</u>				
Product/ingredient name	Test	Experiment	Re	esult
Not available.				
Conclusion/Summary	: Not available.			
<u>Carcinogenicity</u>				
Product/ingredient name	Result	Species	Dose	Exposure
Not available.				
Conclusion/Summary	: Not available.			
<u>Classification</u>				
Product/ingredient name		OSHA	IARC N	ГР
Kylene		-	3 -	
Ethylbenzene Proprietary		-	2B - 2B -	
cumene		-	2B -	
Reproductive toxicity				
Product/ingredient name	Maternal Fertility toxicity	Development toxin	Species	Dose Exposure
Not available.	,			
Conclusion/Summary	: Not available.	and gradient and activities are seen as the second and activities and activities are an activities and activities are activities and activities activities are activities activi		V-100 - 100
<u>Teratogenicity</u>				
Product/ingredient name	Result	Species	Dose	Exposure
Not available.				
Conclusion/Summary	: Not available.			
Specific target organ toxic	ity (single exposure)			
Name		Category	Route of	Target organs
Not available.			exposure	
Specific target organ toxic	ity (repeated exposure)			
Not available.				

People + Products ← Performance\*

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# **Section 11. Toxicological information**

**Aspiration hazard** 

Name Result

Ethylbenzene ASPIRATION HAZARD - Category 1

Information on the likely

**ToxKinetics - routes of** 

exposure

: Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

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

**Inhalation** : Harmful if inhaled.

May cause respiratory irritation.

**Skin contact** : Causes skin irritation.

Ingestion : Irritating to mouth, throat and stomach. Aspiration hazard if swallowed. Can enter

lungs and cause damage.

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 dizziness/vertigo drowsiness/fatigue unconsciousness

**Skin contact** : Adverse symptoms may include the following:

irritation redness

**Ingestion** : Adverse symptoms may include the following:

Irritation of the mucous membranes of the mouth, throat and esophagus.

Symptoms similar to those of inhalation.

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

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects: Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

General : No known significant effects or critical hazards.

Date of issue/Date of revision 9/1/2016. People + Products ⇒ Performance Version : 2.06

# Section 11. Toxicological information

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

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**

Route	ATE value
Oral	4161.9 mg/kg
Inhalation (gases)	6686.5 ppm

Interactive effects : Not available.

Other information : Not available.

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Kylene	Acute LC50 8500 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 2930 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 5200 μg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1000 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
Oxyalkylated Resins	Acute EC50 12 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 1.23 mg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 0.148 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1300 μg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 8 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 35 µg/l Fresh water	Fish - Oryzias latipes - Fry	100 days
Proprietary	Acute LC50 505000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC mg/l Fresh water	Daphnia - Daphnia magna	21 days
•	Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas - Embryo	33 days
cumene	Acute EC50 2600 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 7400 µg/l Fresh water	Crustaceans - Artemia sp	48 hours
Date of issue/Date of revision	9/1/2016. People + Products ← Pe	erformance" Version : 2	2.06

# Section 12. Ecological information

Acute EC50 10600 µg/l Fresh water

Nauplii

Daphnia - Daphnia magna -

48 hours

Acute LC50 2700 µg/l Fresh water

Neonate Fish - Oncorhynchus mykiss

96 hours

Conclusion/Summary

. Not available.

### Persistence and degradability

Not available.

### Product/ingredient name

Not available.

**Conclusion/Summary** 

Product/ingredient name

Not available.

: Not available.

Bioaccumulative potential			
Product/ingredient name	LogPow	BCF	Potential
Xylene	3.12	8.1 to 25.9	low
Ethylbenzene	3.6	-	low
Proprietary	1.9	-	low
cumene	3.55	94.69	low

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Mobility

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

### **Disposal methods**

Date of issue/Date of revision

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 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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# Section 13. Disposal considerations

**Waste stream** 

: Not available.

**RCRA** classification

: Not available.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS#	Status	Reference number
Xylene	1330-20-7	Listed	U239
Proprietary	Proprietary	Listed	Proprietary

# **Section 14. Transport information**

**DOT Classification** 

PG\* : Packing group

UN1993 FLAMMABLE LIQUID, N.O.S. (Xylene, Heptane) RQ (Xylene, 3 II Ethylbenzene)

Additional information

### **Emergency Response Guide (ERG):128**

### Reportable quantity

240.33 lbs / 109.11 kg [35.584 gal / 134.7 L]

Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

### Label



### **TDG**

# Classification

UN1993 FLAMMABLE LIQUID, N.O.S. (Xylene, Heptane) 3 II

**Additional information** 

### Label



### **IMDG Class**

# Section 14. Transport information

UN1993

FLAMMABLE LIQUID, N.O.S. (Xylene, Heptane). Marine pollutant (Heptane)

3

II

**Marine pollutant notes:** 

. Not available.

**Additional information** 

The marine pollutant mark is not required when transported in sizes of  $\leq 5$  L or  $\leq 5$  kg.

Label





### **IATA-DGR Class**

UN1993

FLAMMABLE LIQUID, N.O.S. (Xylene, Heptane)

3

II

Additional information

The environmentally hazardous substance mark may appear if required by other transportation regulations.

Label



# Section 15. Regulatory information

**U.S. Federal regulations** 

: TSCA 4(a) final test rules: Proprietary

TSCA 8(a) PAIR: 4-Nonylphenol, branched, ethoxylated; Oxyalkylated Resins

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Not determined.

Clean Water Act (CWA) 307: Ethylbenzene

Clean Water Act (CWA) 311: Xylene; Sulphuric acid

Clean Air Act Section 112

(b) Hazardous Air

: Listed

**Pollutants (HAPs)** 

**Clean Air Act Section 602** 

: Not listed

Class | Substances

Clean Air Act Section 602 Class II Substances

: Not listed

**DEA List I Chemicals** (Precursor Chemicals)

: Not listed

**DEA List II Chemicals** (Essential Chemicals)

: Listed

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# **Section 15. Regulatory information**

### 3ARA 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
Xylene	30 - 60	Yes.	No.	No.	Yes.	No.
Ethylbenzene	. 10 - 30	Yes.	No.	No.	Yes.	Yes.
Oxyalkylated Resins	1 - 5	No.	No.	No.	Yes.	No.
methylcyclohexane	1 - 5	Yes.	No.	No.	Yes.	No.
Proprietary	1 - 5	Yes.	No.	No.	Yes.	Yes.

### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Xylene	1330-20-7	30 - 60
	Ethylbenzene	100-41-4	10 - 30
	Proprietary	Proprietary	1 - 5
Supplier notification	Xylene	1330-20-7	30 - 60
	Ethylbenzene	100-41-4	10 - 30
	Proprietary	Proprietary	1 - 5

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; Proprietary

**New York** 

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

**New Jersey** 

: The following components are listed: XYLENES; BENZENE, DIMETHYL-; Proprietary

Pennsylvania

The following components are listed: BENZENE, DIMETHYL-; Proprietary

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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

### International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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# Section 15. Regulatory information

### Montreal Protocol (Annexes A. B. C. E)

Not listed.

### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

### **Rotterdam Convention on Prior Inform Consent (PIC)**

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### Canada

WHMIS (Canada)

: Class B-2: Flammable liquid

Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

**Canadian lists** 

Canadian NPRI

: The following components are listed: Xylene (all isomers); Proprietary;

Nonylphenol and its ethoxylates; Oxyalkylated Resins

(Pollution Release)
CEPA Toxic substances

The following components are listed: Nonylphenol and its ethoxylates;

Oxyalkylated Resins

Not determined.

Not determined.

Canada inventory-DSL / NDSL

International lists
National inventory

**Philippines** 

National inventory

Australia : Not determined.

Canada : Not determined.

China : Not determined.

Europe : Not determined.

Japan : Not determined.

Malaysia : Not determined.

New Zealand : Not determined.

Republic of Korea : Not determined.
Taiwan : Not determined.

## Section 16. Other information

#### 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.

### Section 16. Other information

Normal Package Size(s):

Ball: 2" Ball 50/Cooler; 4" Ball 12/Cooler

Dry Product: 50 Lbs/Box

Liquid: 5 Gallon/55 Gallon/Bulk Pellets: 30 Lbs/Cooler; 24 Lbs/Pail Stix: 1 1/4": 50 Each/Cooler

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Prepared by : Jacam Regulatory Department

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**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

References

: Not available.

▼ Indicates information that has changed from previously issued version.

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