

### SAFETY DATA SHEET

### **OEB 9622P**

### **Section 1. Identification**

GHS product identifier

: OEB 9622P

Other means of identification

: Not available.

**Identified uses** 

: Emulsion Breaker with Paraffin

**Uses advised against** 

: None known.

**Manufacturer** 

: Jacam Catalyst, LLC 11999 E Hwy 158 Gardendale, TX 79758

For Chemical Emergency Spill, Leak Fire, Exposure or Accident

y re : Call CHEMTREC Day or Night

Within USA and Canada 800-424-9300 Or +1 703-527-3887 (Collect calls accepted)

Direct all other calls to:

Jacam Catalyst, LLC 432-563-0727

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

### 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 SERIOUS EYE DAMAGE - Category 1 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) -

Category 2

**GHS label elements** 

Hazard pictograms









Signal word

: Danger

**Hazard statements** 

: H226 - Flammable liquid and vapor. H318 - Causes serious eye damage. H351 - Suspected of causing cancer.

H336 - May cause drowsiness or dizziness.

H373 - May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements** 

**Prevention** 

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood. 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.

P260 - Do not breathe vapor.

### Section 2. Hazards identification

#### Response

: P314 - Get medical attention if you feel unwell.

P370 + P378 - In case of fire: Never use water to extinguish.

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

P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep 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.

P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or physician.

**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.

# Section 3. Composition/information on ingredients

#### Substance/mixture : Mixture

| Ingredient name                      | %        | <b>CAS</b> number |
|--------------------------------------|----------|-------------------|
| Heavy Aromatic Naphtha               | 60 - 100 | 64741-68-0        |
| 4-Nonylphenol, branched, ethoxylated | 1 - 5    | 127087-87-0       |
| Isopropanol                          | 1 - 5    | 67-63-0           |
| Proprietary                          | 1 - 5    | Proprietary       |
| Solvent Naphtha                      | 1 - 5    | 64742-94-5        |
| xylene                               | 1 - 5    | 1330-20-7         |
| Proprietary                          | 1 - 5    | Proprietary       |
| ethylbenzene                         | 0.1 - 1  | 100-41-4          |

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

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

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

### Section 4. First aid measures

#### **Description of necessary first aid measures**

#### **Eye contact**

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.

#### **Inhalation**

: Get medical attention immediately. Call a poison center or physician. 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 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**

: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

### Section 4. First aid measures

#### Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. 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. Chemical burns must be treated promptly by a 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

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

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Skin contact : No known significant effects or critical hazards.

Ingestion : Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

> pain watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatique dizziness/vertigo unconsciousness

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

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

Unsuitable extinguishing

media

: Do not use water jet.

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### Section 5. Fire-fighting measures

#### Specific hazards arising from the chemical

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

### **Hazardous thermal** decomposition products

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

#### **Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

#### **Special protective** equipment for fire-fighters

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

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe 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 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. 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 ingest. 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

# Section 7. Handling and storage

#### Advice on general occupational hygiene

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.

: 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 accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

| Ingredient name   | Exposure limits  |
|---|--|
| Heavy Aromatic Naphtha 4-Nonylphenol, branched, ethoxylated Isopropanol | None.  ACGIH TLV (United States, 3/2018).  TWA: 200 ppm 8 hours.  STEL: 400 ppm 15 minutes.  OSHA PEL 1989 (United States, 3/1989).  TWA: 400 ppm 8 hours.  TWA: 980 mg/m³ 8 hours.  STEL: 500 ppm 15 minutes.  STEL: 1225 mg/m³ 15 minutes.  NIOSH REL (United States, 10/2016).  TWA: 980 mg/m³ 10 hours.  TWA: 980 mg/m³ 15 minutes.  STEL: 500 ppm 15 minutes.  STEL: 500 ppm 15 minutes.  STEL: 1225 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 400 ppm 8 hours.  TWA: 980 mg/m³ 8 hours. |
| Proprietary<br>Solvent Naphtha<br>xylene                                | None.  ACGIH TLV (United States, 3/2018).  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, 5/2018).  TWA: 100 ppm 8 hours.  TWA: 435 mg/m³ 8 hours.   |
| Proprietary   | ACGIH TLV (United States, 3/2018).  TWA: 20 ppm 8 hours.  STEL: 75 ppm 15 minutes.  OSHA PEL 1989 (United States, 3/1989).   |

ethylbenzene

### Section 8. Exposure controls/personal protection

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, 10/2016).

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, 5/2018).

TWA: 100 ppm 8 hours. TWA: 410 mg/m³ 8 hours.

ACGIH TLV (United States, 3/2018).

TWA: 20 ppm 8 hours.

OSHA PEL 1989 (United States, 3/1989).

TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m³ 15 minutes. NIOSH REL (United States, 10/2016).

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, 5/2018).

TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 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. 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 and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

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.

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## Section 8. Exposure controls/personal protection

**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.

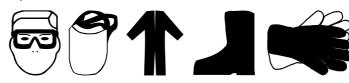
Other skin protection

: 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** 

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Personal protective equipment (Pictograms)



# Section 9. Physical and chemical properties

**Appearance** 

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

Color : Amber. Odor : Aromatic. : Not available. Odor threshold : Not available. pН **Melting point** : Not available. : Not available. **Boiling point** 

: Closed cup: 23.889°C (75°F) [Pensky-Martens.] Flash point

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

(flammable) limits

: Not available. Vapor pressure Vapor density : >1 [Air = 1] : 0.84 to 0.91 Relative density

: 7.26 to 7.6 (lbs/gal) **Density** 

Solubility : Insoluble in the following materials: cold water.

Partition coefficient: noctanol/water

Not available.

: Not available. **Auto-ignition temperature** : Not available. **Decomposition temperature** 

**Viscosity** : Kinematic (40°C (104°F)): 0.19 cm<sup>2</sup>/s (19 cSt)

### 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.

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# Section 10. Stability and reactivity

**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 |
|--------------------------------------|-----------------------|---------|-------------|----------|
| Heavy Aromatic Naphtha               | LD50 Oral             | Rat     | 4800 mg/kg  | -        |
| 4-Nonylphenol, branched, ethoxylated | LD50 Dermal           | Rabbit  | 2500 mg/kg  | -        |
|                                      | LD50 Oral             | Rat     | 1310 mg/kg  | -        |
| Isopropanol                          | LC50 Inhalation Vapor | Rat     | 55.51 mg/l  | 4 hours  |
|                                      | LD50 Dermal           | Rabbit  | 12800 mg/kg | -        |
|                                      | LD50 Oral             | Rat     | 5000 mg/kg  | -        |
| xylene                               | LC50 Inhalation Gas.  | Rat     | 5000 ppm    | 4 hours  |
|                                      | LD50 Dermal           | Rabbit  | 2000 mg/kg  | -        |
|                                      | LD50 Oral             | Rat     | 4300 mg/kg  | -        |
| Proprietary                          | LD50 Oral             | Rat     | 2080 mg/kg  | -        |
| ethylbenzene                         | LD50 Dermal           | Rabbit  | >5000 mg/kg | -        |
|                                      | LD50 Oral             | Rat     | 3500 mg/kg  | -        |

#### **Irritation/Corrosion**

| Product/ingredient name              | Result                   | Species | Score | Exposure                 | Observation |
|--------------------------------------|--------------------------|---------|-------|--------------------------|-------------|
| Heavy Aromatic Naphtha               | Skin - Severe irritant   | Rabbit  | -     | 500<br>milligrams        | -           |
| 4-Nonylphenol, branched, ethoxylated | Skin - Moderate irritant | Rat     | -     | 24 hours                 | 3 days      |
|                                      | Eyes - Cornea opacity    | Rabbit  | 4     | -                        | -           |
| Isopropanol                          | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 milligrams  | -           |
|                                      | Eyes - Moderate irritant | Rabbit  | -     | 10 milligrams            | -           |
|                                      | Eyes - Severe irritant   | Rabbit  | -     | 100<br>milligrams        | -           |
|                                      | Skin - Mild irritant     | Rabbit  | -     | 500<br>milligrams        | -           |
| Proprietary                          | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 100 microliters | -           |
| Solvent Naphtha                      | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 microliters | -           |
| xylene                               | 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              | -           |
| Proprietary                          | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 microliters | -           |
|                                      | Eyes - Severe irritant   | Rabbit  | -     | 40 milligrams            | -           |
|                                      | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams  | -           |
| ethylbenzene                         | Eyes - Severe irritant   | Rabbit  | -     | 500<br>milligrams        | -           |
|                                      | Skin - Mild irritant     | Rabbit  | -     | 24 hours 15 milligrams   | -           |

### **Sensitization**

# Section 11. Toxicological information

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### Classification

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| Heavy Aromatic Naphtha  | -    | 2A   | -   |
| Isopropanol             | -    | 3    | -   |
| xylene                  | -    | 3    | -   |
| Proprietary             | -    | 2B   | -   |
| ethylbenzene            | -    | 2B   | -   |

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

| Name   | Category                               | Route of exposure                                     | Target organs   |
|--|--|---|---|
| Heavy Aromatic Naphtha<br>Isopropanol<br>Solvent Naphtha | Category 3<br>Category 3<br>Category 3 | Not applicable.<br>Not applicable.<br>Not applicable. | Narcotic effects<br>Narcotic effects<br>Narcotic effects  |
| Proprietary  | Category 3                             | Not applicable.  Not applicable.                      | Respiratory tract irritation Respiratory tract irritation |

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

| Name                                | 3 3 3                    | Route of exposure | Target organs                 |
|-------------------------------------|--------------------------|-------------------|-------------------------------|
| Heavy Aromatic Naphtha ethylbenzene | Category 2<br>Category 2 |                   | Not determined hearing organs |

#### **Aspiration hazard**

| Name            | Result                         |
|-----------------|--------------------------------|
| Solvent Naphtha | ASPIRATION HAZARD - Category 1 |
| ethylbenzene    | ASPIRATION HAZARD - Category 1 |

Information on the likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential acute health effects

**Eye contact** 

: Causes serious eye damage.

Inhalation

: Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact** 

: No known significant effects or critical hazards.

Ingestion

: Can cause central nervous system (CNS) depression.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** 

: Adverse symptoms may include the following:

pain watering redness

# **Section 11. Toxicological information**

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

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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

pain or irritation

redness

blistering may occur

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

stomach pains

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

**Short term exposure** 

**Potential immediate** 

effects

: Not available.

Potential delayed effects

: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**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.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                | 21736.44 mg/kg |
| Dermal              | 36139.87 mg/kg |
| Inhalation (gases)  | 295731.42 ppm  |
| Inhalation (vapors) | 979.2 mg/l     |

# **Section 12. Ecological information**

#### **Toxicity**

| Product/ingredient name | Result                               | Species                          | Exposure |
|-------------------------|--------------------------------------|----------------------------------|----------|
| Heavy Aromatic Naphtha  | Acute NOEC 0.01 mg/l                 | Fish                             | 96 hours |
| Isopropanol             | Acute EC50 10100 mg/l Fresh water    | Daphnia - Daphnia magna          | 48 hours |
| •                       | Acute LC50 1400000 µg/l Marine water | Crustaceans - Crangon crangon    | 48 hours |
|                         | Acute LC50 4200 mg/l Fresh water     | Fish - Rasbora heteromorpha      | 96 hours |
| Solvent Naphtha         | EC50 10 mg/l                         | Algae                            | 72 hours |
| ·                       | EC50 1 mg/l                          | Daphnia                          | 48 hours |
| xylene                  | Acute LC50 8500 μg/l Marine water    | Crustaceans - Palaemonetes pugio | 48 hours |
|                         | Acute LC50 13400 μg/l Fresh water    | Fish - Pimephales promelas       | 96 hours |

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### **Section 12. Ecological information**

| Proprietary  | Acute LC50 505000 μg/l Fresh water | Fish - Pimephales promelas              | 96 hours |
|--------------|------------------------------------|---|----------|
|              | Chronic NOEC 78 mg/l Fresh water   | Daphnia - Daphnia magna                 | 21 days  |
|              | Chronic NOEC 168 mg/l Fresh water  | Fish - Pimephales promelas - Embryo     | 33 days  |
| 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 6.53 mg/l Marine water  | Crustaceans - Artemia sp Nauplii        | 48 hours |
|              | Acute EC50 2.93 mg/l Fresh water   | Daphnia - Daphnia magna -<br>Neonate    | 48 hours |
|              | Acute LC50 4200 μg/l Fresh water   | Fish - Oncorhynchus mykiss              | 96 hours |

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

| Product/ingredient name | LogPow     | BCF         | Potential |
|-------------------------|------------|-------------|-----------|
| Heavy Aromatic Naphtha  | -          | 10 to 2500  | high      |
| Isopropanol             | 0.05       | -           | low       |
| Solvent Naphtha         | 2.8 to 6.5 | 99 to 5780  | high      |
| xylene                  | 3.12       | 8.1 to 25.9 | low       |
| Proprietary             | 1.9        | -           | low       |
| ethylbenzene            | 3.6        | -           | low       |

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not 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 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.

#### United States - RCRA Toxic hazardous waste "U" List

| Ingredient  | CAS#      | Status | Reference number |
|-------------|-----------|--------|------------------|
| Proprietary | -         | Listed | U161             |
| Xylene      | 1330-20-7 | Listed | U239             |

# **Section 14. Transport information**

|                            | DOT Classification   | TDG Classification  | IATA   |
|----------------------------|--|---|--|
| UN number                  | UN1993   | UN1993  | UN1993   |
| UN proper shipping name    | FLAMMABLE LIQUID, N.O.S.<br>(Heavy Aromatic Naphtha,<br>Isopropanol)   | FLAMMABLE LIQUID, N.O.S.<br>(Heavy Aromatic Naphtha,<br>Isopropanol)  | FLAMMABLE LIQUID, N.O.S.<br>(Heavy Aromatic Naphtha,<br>Isopropanol)                                     |
| Transport hazard class(es) | 3  | 3   | 3  |
| Packing group              | III  | III   | III  |
| Environmental hazards      | No.  | Yes.  | Yes. The environmentally hazardous substance mark is not required.                                       |
| Additional information     | Reportable quantity 5897 lbs / 2677.2 kg [812.3 gal / 3074.89 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. | Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark).  The marine pollutant mark is not required when transported by road or rail. | The environmentally hazardous substance mark may appear if required by other transportation regulations. |

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.

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

# **Section 15. Regulatory information**

**U.S. Federal regulations** 

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

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

United States inventory (TSCA 8b): Not determined.

Clean Water Act (CWA) 307: ethylbenzene; benzene; naphthalene

Clean Water Act (CWA) 311: ethylbenzene; xylene; sulphuric acid; benzene;

butylamine; naphthalene

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** 

: Not listed

(Precursor Chemicals) **DEA List II Chemicals** 

: Listed

(Essential Chemicals)

**SARA 302/304** 

**Composition/information on ingredients** 

# Section 15. Regulatory information

|                |                         |      | SARA 302 TPQ |           | SARA 304 RQ |           |
|----------------|-------------------------|------|--------------|-----------|-------------|-----------|
| Name           | %                       | EHS  | (lbs)        | (gallons) | (lbs)       | (gallons) |
| sulphuric acid | 0.0045562 -<br>0.040585 | Yes. | 1000         | 66.3      | 1000        | 66.3      |

SARA 304 RQ : 4430555.9 lbs / 2011472.4 kg [72197.7 gal / 273297.9 L]

**SARA 311/312** 

Classification : FLAMMABLE LIQUIDS - Category 3

SERIOUS EYE DAMAGE - Category 1 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

#### **Composition/information on ingredients**

| Name                     | %    | Classification   |  |
|--------------------------|------|--|--|
| Heavy Aromatic Naphtha   | ≥60  | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |  |
|                          |      |  |  |
|                          |      | SPECIFIC TARGET ORGAN TOXICITY (REPEATED   |  |
|                          |      | EXPOSURE) (oral) - Category 2  |  |
| 4-Nonylphenol, branched, | ≤5   | ACUTE TOXICITY (oral) - Category 4   |  |
| ethoxylated              |      | SKIN IRRITATION - Category 2   |  |
|                          |      | SERIOUS EYE DAMAGE - Category 1  |  |
| Isopropanol              | ≤5   | FLAMMABLE LIQUIDS - Category 2   |  |
|                          |      | EYE IRRITATION - Category 2A   |  |
|                          |      | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)                                 |  |
|                          |      | (Narcotic effects) - Category 3  |  |
| Proprietary              | ≤5   | EYE IRRITATION - Category 2B   |  |
| Solvent Naphtha          | ≤2.1 | FLAMMABLE LIQUIDS - Category 4   |  |
|                          |      | SKIN IRRITATION - Category 2   |  |
|                          |      | EYE IRRITATION - Category 2A   |  |
|                          |      | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)                                 |  |
|                          |      | (Respiratory tract irritation) - Category 3                                      |  |
|                          |      | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)                                 |  |
|                          |      | (Narcotic effects) - Category 3  |  |
|                          |      | ASPIRATION HAZARD - Category 1   |  |
| xylene                   | ≤2   | FLAMMABLE LIQUIDS - Category 2   |  |
|                          |      | ACUTE TOXICITY (dermal) - Category 4   |  |
|                          |      | ACUTE TOXICITY (inhalation) - Category 4   |  |
|                          |      | SKIN IRRITATION - Category 2   |  |
|                          |      | EYE IRRITATION - Category 2A   |  |
| Proprietary              | ≤4.8 | FLAMMABLE LIQUIDS - Category 2   |  |
|                          |      | ACUTE TOXICITY (inhalation) - Category 4   |  |
|                          |      | EYE IRRITATION - Category 2A   |  |
|                          |      | CARCINOGENICITY - Category 2   |  |
|                          |      | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)                                 |  |
|                          |      | (Respiratory tract irritation) - Category 3                                      |  |
| ethylbenzene             | <1   | FLAMMABLE LIQUIDS - Category 2   |  |
|                          |      | ACUTE TOXICITY (inhalation) - Category 4   |  |
|                          |      | CARCINOGENICITY - Category 2   |  |
|                          |      | SPECIFIC TARGET ORGAN TOXICITY (REPEATED   |  |
|                          |      | EXPOSURE) (hearing organs) - Category 2  |  |
|                          |      | ASPIRATION HAZARD - Category 1   |  |

#### **SARA 313**

|                                 | Product name | CAS number  | %                 |
|---------------------------------|--------------|-------------|-------------------|
| Form R - Reporting requirements | xylene       | 1330-20-7   | 1.6851 - 1.7065   |
|                                 | Proprietary  | Proprietary | 1.1267            |
|                                 | ethylbenzene | 100-41-4    | 0.16851 - 0.51193 |
| Supplier notification           | xylene       | 1330-20-7   | 1.6851 - 1.7065   |
|                                 | Proprietary  | Proprietary | 1.1267            |
|                                 | ethylbenzene | 100-41-4    | 0.16851 - 0.51193 |

### Section 15. Regulatory information

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: Proprietary; XYLENE; DIMETHYLBENZENE; ISOPROPYL ALCOHOL; 2-PROPANOL

**New York** 

: The following components are listed: Proprietary; Ethylbenzene; Xylene mixed

**New Jersey** 

: The following components are listed: Proprietary; ETHYL BENZENE; BENZENE, ETHYL-; XYLENES; BENZENE, DIMETHYL-; ISOPROPYL ALCOHOL; 2-PROPANOL

**Pennsylvania** 

: The following components are listed: Proprietary; BENZENE, ETHYL-; BENZENE, DIMETHYL-; 2-PROPANOL

#### California Prop. 65

**WARNING**: This product can expose you to chemicals including Proprietary and Benzene, which are known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Ethylbenzene, Naphthalene, Strong inorganic acid mists containing sulfuric acid and Cumene, which are known to the State of California to cause cancer, and Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|-----------------|--------|--------------|---------------------------|---------------------------------|
| Proprietary     | Yes.   | Yes.         | -                         | -                               |
| ethylbenzene    | Yes.   | No.          | Yes.                      | -                               |
| naphthalene     | Yes.   | No.          | Yes.                      | -                               |
| methanol        | No.    | Yes.         | -                         | Yes.                            |
| sulphuric acid  | Yes.   | No.          | -                         | -                               |
| cumene          | Yes.   | No.          | -                         | -                               |
| benzene         | Yes.   | Yes.         | Yes.                      | Yes.                            |

#### **Canadian lists**

**Canadian NPRI** 

: The following components are listed: nonylphenol and its ethoxylates; methyl isobutyl ketone; xylene (all isomers); isopropyl alcohol; heavy aromatic solvent naphtha

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**CEPA Toxic substances** 

: The following components are listed: Nonylphenol and its ethoxylates

**Canada inventory** 

: Not determined.

### Section 16. Other information

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



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#### **History**

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: sds@jacamcatalyst.com

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### Section 16. Other information

#### **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 IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

UN = United Nations

✓ Indicates information that has changed from previously issued version.

#### **Notice to reader**

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