

# Material Safety Data Sheet

Paraffin Inhibitor RXSOL 3085 (RXSOL-81-2225-210)



## 1. Product and Company Identification

Product Name : Paraffin Inhibitor RXSOL 3085

Part Number : RXSOL-81-2225-210

### Company Details:

RX MARINE INTERNATIONAL  
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## 2. Composition / information on ingredients

| Name of Substance      | Cas Number | EC No     | Wt. %   | Symbol |
|------------------------|------------|-----------|---------|--------|
| Xylene                 | 1330-20-7  | 202-422-2 | 70 -80% | Xi     |
| Ethylbenzene           | 100-41-4   | 202-849-4 | 10-20%  | Xn     |
| Acetic acid            | 64-19-7    | 100-580-7 | 5 - 10% | Xn     |
| Alkylarylsulfonic acid | 68411-32-5 | 271-117-1 | 1 -5 %  | Xn     |
| Proprietary Blend      | ---        | ---       | 5-10%   | ---    |

## 3. Hazards Identification

Signal Word Danger

Hazard Statements  
Flammable liquid and vapor.  
Harmful in contact with skin or if inhaled.  
Causes severe skin burns and eye damage.  
Suspected of causing cancer.  
May cause drowsiness or dizziness.  
May cause damage to organs through prolonged or repeated exposure. (hearing organs)

Precautionary statements - prevention  
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling.

Precautionary statements - response

Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. 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:** Store locked up. Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations.

## 4. First Aid Measures

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact                | Get medical attention immediately. Call a poison center or physician. Immediately flush the eye(s) continuously with lukewarm, gently flowing water for at least 20-60 minutes while holding the eyelid(s) open. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician                                                                                                                                                                                                                                                  |
| Skin Contact               | Get medical attention immediately. Call a poison center or physician. Wash affected area with soap and mild detergent for at least 20 - 60 minutes. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.                                                                                                                     |
| Inhalation:                | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.                                                                                                                                                                                                                       |
| Ingestion:                 | Call a poison center or physician. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. 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 |
| Note to Physician          | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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.                                                                                                                                                                 |

## 5. Fire-fighting Measures

|                                                |                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                   | Use dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray (fog).                                                                                                                                                                                                                                   |
| Unsuitable extinguishing media                 | Do not use water jet                                                                                                                                                                                                                                                                                               |
| Protective Equipment                           | Wear suitable fire fighting suit.                                                                                                                                                                                                                                                                                  |
| 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                                                                                                       |
| Hazardous thermal decomposition products       | Carbon dioxide, carbon monoxide, sulfur oxides                                                                                                                                                                                                                                                                     |
| 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.                                                                                                                                                |

## 6. Accidental Release Measures

|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | <p>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.</p> <p>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".</p>   |
| Environmental Precaution                                            | <p>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).</p> <p>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.</p>                                                                                                                                                         |
| Methods and materials for containment and cleaning up               | <p>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.</p> |

## 7. Handling and Storage

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling                                     | <p>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 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.</p> |
| Storage                                                     | <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Conditions for safe storage including any incompatibilities | <p>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</p>                                                                                                                                                                                                                                                                        |

## 8. Exposure controls and personal protection

|                              | Ingredient Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Exposure Limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Occupational exposure limits | Xylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ACGIH TLV (United States, 3/2018).<br>STEL: 651 mg/m³, 0 times per shift, 15 minutes.<br>STEL: 150 ppm, 0 times per shift, 15 minutes.<br>TWA: 434 mg/m³, 0 times per shift, 8 hours.<br>TWA: 100 ppm, 0 times per shift, 8 hours.<br>OSHA PEL (United States, 5/2018).<br>TWA: 435 mg/m³, 0 times per shift, 8 hours.<br>TWA: 100 ppm, 0 times per shift, 8 hours.<br>OSHA PEL 1989 (United States, 3/1989).<br>STEL: 655 mg/m³, 0 times per shift, 15 minutes.<br>STEL: 150 ppm, 0 times per shift, 15 minutes.<br>TWA: 435 mg/m³, 0 times per shift, 8 hours.<br>TWA: 100 ppm, 0 times per shift, 8 hours.                                                                                      |
|                              | Ethylbenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ACGIH TLV (United States, 3/2018).<br>TWA: 20 ppm, 0 times per shift, 8 hours.<br>NIOSH REL (United States, 10/2016).<br>STEL: 545 mg/m³, 0 times per shift, 15 minutes.<br>STEL: 125 ppm, 0 times per shift, 15 minutes.<br>TWA: 435 mg/m³, 0 times per shift, 10 hours.<br>TWA: 100 ppm, 0 times per shift, 10 hours.<br>OSHA PEL (United States, 5/2018).<br>TWA: 435 mg/m³, 0 times per shift, 8 hours.<br>TWA: 100 ppm, 0 times per shift, 8 hours.<br>OSHA PEL 1989 (United States, 3/1989).<br>STEL: 545 mg/m³, 0 times per shift, 15 minutes.<br>STEL: 125 ppm, 0 times per shift, 15 minutes.<br>TWA: 435 mg/m³, 0 times per shift, 8 hours.<br>TWA: 100 ppm, 0 times per shift, 8 hours. |
|                              | Acetic Acid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ACGIH TLV (United States, 3/2018).<br>STEL: 37 mg/m³, 0 times per shift, 15 minutes.<br>STEL: 15 ppm, 0 times per shift, 15 minutes.<br>TWA: 25 mg/m³, 0 times per shift, 8 hours.<br>TWA: 10 ppm, 0 times per shift, 8 hours.<br>NIOSH REL (United States, 10/2016).<br>STEL: 37 mg/m³, 0 times per shift, 15 minutes.<br>STEL: 15 ppm, 0 times per shift, 15 minutes.<br>TWA: 25 mg/m³, 0 times per shift, 10 hours.<br>TWA: 10 ppm, 0 times per shift, 10 hours.<br>OSHA PEL (United States, 5/2018).<br>TWA: 25 mg/m³, 0 times per shift, 8 hours.<br>TWA: 10 ppm, 0 times per shift, 8 hours.<br>OSHA PEL 1989 (United States, 3/1989).<br>TWA: 25 mg/m³, 0 times per shift, 8 hours          |
|                              | Alkylarylsulfonic acid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TWA: 10 ppm, 0 times per shift, 8 hours.<br>None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                              | Consult local authorities for acceptable exposure limits.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                              | If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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.                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Personal Protection          | Eye protection : Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles. If inhalation hazards exist, a full-face respirator may be required instead.<br>Hand protection : Chemical-resistant glove<br>Skin protection : Wear long sleeves and chemical resistant apron to prevent repeated or prolonged skin contact.<br>Respiratory protection : If a risk assessment indicates it is necessary, use a properly fitted, air purifying or supplied air respirator complying with an approved standard. 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. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Hygiene measures             | Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



Gloves



Suit

## 9. Physical and chemical properties

|                                |                                                                                                                               |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Physical State                 | Liquid                                                                                                                        |
| Colour                         | Pale yellow                                                                                                                   |
| Odour                          | Aromatic.                                                                                                                     |
| Odor threshold                 | Not Available                                                                                                                 |
| pH                             | 2 - 4<br>5% of product in 75% isopropanol / 25% water solution                                                                |
| Boiling Point                  | Not Available                                                                                                                 |
| Initial Boiling Point          | Not Available                                                                                                                 |
| Freezing Point/ Melting Point  | Not Available                                                                                                                 |
| Flash Point                    | Closed cup: 28.89°C (84°F)                                                                                                    |
| Burning Time                   | Not Applicable                                                                                                                |
| Burning Rate                   | Not Applicable                                                                                                                |
| Evaporation rate               | Not Applicable                                                                                                                |
| Flammability (solid, gas)      | Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. |
| Upper explosion limit          | No data available                                                                                                             |
| Lower explosion limit          | No data available                                                                                                             |
| Explosive properties           | No data available                                                                                                             |
| Vapor pressure                 | 22.1 kPa (165.5 mm Hg, 3.2 psig) @ 54.4°C, 130 F (Reid)                                                                       |
| Vapor density                  | No information available                                                                                                      |
| Relative density               | 0.88                                                                                                                          |
| Density                        | 0.886 g/cm3                                                                                                                   |
| Water solubility               | insoluble                                                                                                                     |
| Partition coefficient: octanol | No data available                                                                                                             |
| Autoignition temperature       | No data available                                                                                                             |
| Thermal decomposition          | No data available                                                                                                             |
| Viscosity, kinematic           | No data available                                                                                                             |
| Explosive properties           | No data available                                                                                                             |
| Oxidizing properties           | No data available                                                                                                             |
| Dynamic viscosity              | No data available                                                                                                             |
| VOC (%)                        | No data available                                                                                                             |
| Pour point                     | No information available                                                                                                      |

## 10. Stability and reactivity

|            |                                                                                            |
|------------|--------------------------------------------------------------------------------------------|
| Recativity | No specific test data related to reactivity available for this product or its ingredients. |
| Stability  | Stable under normal conditions and recommended use.                                        |

|                                    |                                                                                                                                                                         |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur.                                                                                         |
| Incompatible materials             | Reactive or incompatible with the following materials: oxidizing materials, organic materials, acids and alkalis.                                                       |
| Hazardous Decomposition            | Under normal conditions of storage and use, hazardous decomposition products should not be produced.                                                                    |
| Condition 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. |
| Polymerization                     | Hazardous polymerization does not occur.                                                                                                                                |

## 11. Toxicological information

|                                                    |                              |                                |                   |             |                  |
|----------------------------------------------------|------------------------------|--------------------------------|-------------------|-------------|------------------|
|                                                    | Product/ingredient name      | Result                         | Species           | Dose        | Exposure         |
| Acute toxicity                                     | Xylene                       | LC50 Inhalation Gas.           | Rat               | 5000 ppm    | 4 hours          |
|                                                    |                              | LD50 Dermal                    | Rabbit            | >1700mg/kg  | --               |
|                                                    |                              | LD50 Oral                      | Male Rat          | 3523 mg/kg  | --               |
|                                                    |                              | LD50 Oral                      | Rate              | 4300 mg/kg  | --               |
|                                                    | Ethylbenzene                 | LD50 Dermal                    | Rabbit            | 15400 mg/kg | --               |
|                                                    |                              | LD50 Oral                      | Rat               | 3500 mg/kg  | --               |
|                                                    | Acetic Acid                  | LC50 Inhalation Vapor          | Rat               | 11000 mg/m³ | 4 hours          |
|                                                    |                              | LD50 Dermal                    | Rabbit            | 1060 mg/kg  | ---              |
|                                                    | Alkylarylsulfonic acid       | LD50 Oral                      | Rat               | 3310 mg/kg  | --               |
|                                                    |                              | LD50 Oral                      | Rat               | 1260 mg/kg  | --               |
| Irritation/Corrosion                               | No applicable toxicity data  |                                |                   |             |                  |
| Sensitization                                      | No applicable toxicity data  |                                |                   |             |                  |
| Mutagenicity                                       | No applicable toxicity data. |                                |                   |             |                  |
|                                                    | Product/ingredient name      |                                | OSHA              | IARC        | NTP              |
| Carcinogenicity                                    | Xylene                       |                                | -                 | 3           | -                |
|                                                    | Ethylbenzen                  |                                | -                 | 2b          | -                |
| Reproductive toxicity                              | No applicable toxicity data  |                                |                   |             |                  |
| Teratogenicity                                     | No applicable toxicity data  |                                |                   |             |                  |
| Specific target organ toxicity (single exposure)   | Name                         | Category                       | Route of exposure |             | Target organs    |
|                                                    | Xylene                       | Category 3                     | Not applicable.   |             | Narcotic effects |
| Specific target organ toxicity (repeated exposure) | Name                         | Category                       | Route of exposure |             | Target organs    |
|                                                    | Ethylbenzene                 | Category 2                     | Not determined    |             | Hearing organs   |
| Aspiration hazard                                  | Name                         | Result                         |                   |             |                  |
|                                                    | Xylene                       | ASPIRATION HAZARD - Category 1 |                   |             |                  |

|                                              |                                                                                                           |              |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------|
| Information on the likely routes of exposure | Routes of entry anticipated: Dermal, Inhalation.                                                          |              |
| Potential acute health effects               |                                                                                                           |              |
| Eye contact :                                | Causes serious eye damage.                                                                                |              |
| Inhalation :                                 | Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. |              |
| Skin contact :                               | Causes severe burns. Harmful in contact with skin.                                                        |              |
| Ingestion :                                  | Can cause central nervous system (CNS) depression.                                                        |              |
| Potential chronic health effects             |                                                                                                           |              |
| General :                                    | May cause damage to organs through prolonged or repeated exposure.                                        |              |
| Carcinogenicity :                            | Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.                    |              |
| Mutagenicity :                               | No known significant effects or critical hazards.                                                         |              |
| 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.                                                         |              |
| Acute toxicity estimates                     | Route                                                                                                     | ATE Value    |
|                                              | Oral                                                                                                      | 3900.7 mg/kg |
|                                              | Dermal                                                                                                    | 1471.1 mg/kg |
|                                              | Inhalation (gases)                                                                                        | 6686.8 ppm   |
|                                              | Inhalation (vapors)                                                                                       | 84.49 mg/l   |

## 12. Ecological information

|                                    | Product/ingredient name                            | Result                                   | Species                                 | Exposure |
|------------------------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------|----------|
| Toxicity                           | Xylene                                             | Acute LC50 8500 µg/l Marine water        | Crustaceans - Palaemonetes pugio        | 48 Hours |
|                                    |                                                    | Acute LC50 13400 µg/l Fresh water        |                                         |          |
|                                    | Ethylbenzene                                       | Acute EC50 4600 µg/l Fresh water         | Fish - Pimephales promelas              |          |
|                                    |                                                    | Acute EC50 2930 to 4400 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 Hours |
|                                    |                                                    |                                          | Daphnia - Daphnia magna                 | 72 hours |
|                                    |                                                    |                                          | Crustaceans - Americamysis bahia        | 48 Hours |
|                                    |                                                    | Acute LC50 5200 µg/l Marine water        | Fish - Oncorhynchus mykiss              | 96 hours |
|                                    |                                                    | Acute LC50 4200 µg/l Fresh water         | Algae - Pseudokirchneriella subcapitata | 96 hours |
|                                    |                                                    | Chronic NOEC 1000 µg/l Fresh water       |                                         |          |
|                                    |                                                    | Acute EC50 73400 µg/l Fresh water        |                                         |          |
|                                    | Acetic Acid                                        | Acute EC50 65000 µg/l Fresh water        | Algae - Navicula seminulum              | 96 hours |
|                                    |                                                    |                                          | Daphnia - Daphnia magna                 | 48 hours |
|                                    |                                                    | Acute LC50 50.1 µl/L Marine water        | Crustaceans - Artemia sp.               | 48 hours |
|                                    |                                                    | Acute LC50 75000 µg/l Fresh water        | Fish - Lepomis macrochirus              | 96 hours |
| Persistence and degradability      | Not available.                                     |                                          |                                         |          |
| Other adverse effects              | No known significant effects or critical hazards.  |                                          |                                         |          |
| Persistence and degradability      |                                                    |                                          |                                         |          |
| Results of PBT and vPvB assessment | Not classified as PBT/vPvB by current EU criteria. |                                          |                                         |          |

## 13. Disposal considerations

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks        | Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Waste Disposal | Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. 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. |

## 14. Transport information

|                              | UN                                                                                                                                                                                                                            | Number | DOT                                                                                        | TDG Classification                                                                         | IMDG                                                                                       | IATA                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Transport hazard class(es)   |                                                                                                                                                                                                                               |        | UN2924                                                                                     | UN2924                                                                                     | UN2924                                                                                     | UN2924                                                                                     |
| Proper shipping name         |                                                                                                                                                                                                                               |        | FLAMMABLE<br>LIQUID,<br>CORROSIVE, N.O.S.<br>(Contains: Xylene,<br>Alkylarylsulfonic acid) | FLAMMABLE<br>LIQUID,<br>CORROSIVE, N.O.S.<br>(Contains: Xylene,<br>Alkylarylsulfonic acid) | FLAMMABLE<br>LIQUID,<br>CORROSIVE, N.O.S.<br>(Contains: Xylene,<br>Alkylarylsulfonic acid) | FLAMMABLE<br>LIQUID,<br>CORROSIVE, N.O.S.<br>(Contains: Xylene,<br>Alkylarylsulfonic acid) |
| Transport hazard class(es)   |                                                                                                                                                                                                                               |        | 3 (8)                                                                                      | 3 (8)                                                                                      | 3 (8)                                                                                      | 3 (8)                                                                                      |
| Packing Group                |                                                                                                                                                                                                                               |        | III                                                                                        | III                                                                                        | III                                                                                        | III                                                                                        |
| Environmental hazards        |                                                                                                                                                                                                                               |        | NO                                                                                         | NO                                                                                         | NO                                                                                         | NO                                                                                         |
| Additional information       |                                                                                                                                                                                                                               |        |                                                                                            |                                                                                            |                                                                                            |                                                                                            |
| ADR/RID                      | Reportable quantity 133.69 lbs / 60.695 kg [18.22 gal / 68.972 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. |        |                                                                                            |                                                                                            |                                                                                            |                                                                                            |
| TDG Classification           | Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.40-2.42 (Class 8).                                                                              |        |                                                                                            |                                                                                            |                                                                                            |                                                                                            |
| IATA                         | 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.                    |        |                                                                                            |                                                                                            |                                                                                            |                                                                                            |
| Environmental hazards        |                                                                                                                                                                                                                               |        |                                                                                            |                                                                                            |                                                                                            |                                                                                            |
| Environmental hazards        | No                                                                                                                                                                                                                            |        |                                                                                            |                                                                                            |                                                                                            |                                                                                            |
| Marine pollutant             | No                                                                                                                                                                                                                            |        |                                                                                            |                                                                                            |                                                                                            |                                                                                            |

## 15. Regulatory information

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|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| US Federal Regulations                         | TSCA 12(b) one-time export: No products were found.<br>TSCA 12(b) annual export notification: No products were found.<br>United States inventory (TSCA 8b): All components are listed or exempted.<br>Clean Water Act (CWA) 307: Ethylbenzene; Toluene; Benzene<br>Clean Water Act (CWA) 311: Ethylbenzene; Xylene; Toluene; Benzene; Acetic acid; Sulfuric acid                                                       |
| CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) : | This product contains substance(s) which are not listed on the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).                                                                                                                                                                                                                                                                              |
| NATIONAL REGULATIONS, CANADA :                 | WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) :<br>This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR)<br>and the MSDS contains all the information required by the CPR.                                                                                                                                                                   |
| WHMIS CLASSIFICATION :                         | B2 - Flammable Liquids, D2A - Materials Causing Other Toxic Effects - Very Toxic Material, D2B - Materials Causing Other Toxic Effects - Toxic Material                                                                                                                                                                                                                                                                |
| California Prop. 65                            | WARNING: This product can expose you to benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Sulfuric acid, ethylbenzene, cumene, which are known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. |

## 16. Other information

### Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.

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