## **SAFETY DATA SHEET**



### Section 1. Identification

| GHS product identifier | : CITGO HyDurance AW All-Temp NZ 46 |
|------------------------|-------------------------------------|
| Synonyms               | : Hydraulic Oil                     |
| Code                   | : 633613001                         |

Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

| Supplier's details   | : CITGO Petroleum Corporation<br>P.O. Box 4689<br>Houston, TX 77210<br>sdsvend@citgo.com   |
|--|--|
| Emergency telephone<br>number (with hours of<br>operation) | : Technical Contact: (800) 248-4684<br>Medical Emergency: (832) 486-4700<br>CHEMTREC Emergency: (800) 424-9300<br>(United States Only) |

### 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 | : Not classified.   |

| GHS label elements               |  |
|----------------------------------|--|
| Signal word                      | : No signal word.  |
| Hazard statements                | : No known significant effects or critical hazards.  |
| Precautionary statements         |  |
| General                          | : Keep out of reach of children.   |
| Prevention                       | : Do not get in eyes, on skin, or on clothing.   |
| Response                         | : Wash with plenty of soap and water or use a recognized skin cleanser.  |
| Storage                          | : Store in accordance with all local, regional, national and international regulations. Store in a dry place and a closed container. Empty containers may contain material residues which can ignite with explosive force. Misuse of empty containers can be dangerous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers can cause fire, explosion, or release of toxic fumes from residues. Do not pressurize or expose empty containers to open flame, sparks, or heat. Keep container closed and drum bungs in place. All label warnings and precautions must be observed. Return empty drums to a qualified reconditioner. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling, or disposing of empty containers and/or waste residues of this material. |
| Disposal                         | : Dispose of contents and container in accordance with all local, regional, national and international regulations.  |
| Hazards not otherwise classified | <ul> <li>Injection of pressurized hydrocarbons can cause severe permanent tissue damage.<br/>Initial symptoms may be minor. Injection of petroleum hydrocarbons requires<br/>immediate medical attention.</li> </ul>   |

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### Section 3. Composition/information on ingredients

#### Substance/mixture Other means of identification

: Mixture

: Hydraulic Oil

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

| CAS number |  |
|------------|--|

: Not applicable.

| Ingredient name  | %   | CAS number |
|--|-----|------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | ≥90 | 64742-54-7 |
| Mineral Oil  | ≤3  | mixture    |

\* = Various \*\* = Mixture \*\*\* = Proprietary

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

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

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

### Section 4. First aid measures

| Description of necess | ary first aid measures   |
|-----------------------|--|
| Eye contact           | <ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower<br/>eyelids. Check for and remove any contact lenses. Get medical attention if irritation<br/>occurs.</li> </ul>  |
| Inhalation            | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.  |
| Skin contact          | <ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and<br/>shoes. Get medical attention if symptoms occur.</li> </ul>   |
| Ingestion             | <ul> <li>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position<br/>comfortable for breathing. Do not induce vomiting unless directed to do so by medical<br/>personnel. Get medical attention if symptoms occur.</li> </ul> |

#### Most important symptoms/effects, acute and delayed

| Potential acute health effe |  |  |
|-----------------------------|--|--|
| Eye contact                 | : No known significant effects or critical hazards.  |  |
| Inhalation                  | : No known significant effects or critical hazards.  |  |
| Skin contact                | <ul> <li>Injection of pressurized hydrocarbons can cause severe permanent tissue damage.<br/>Initial symptoms may be minor.</li> </ul>   |  |
| Ingestion                   | : No known significant effects or critical hazards.  |  |
| Over-exposure signs/symp    | <u>otoms</u>   |  |
| Eye contact                 | : No specific data.  |  |
| Inhalation                  | : No specific data.  |  |
| Skin contact                | : No specific data.  |  |
| Ingestion                   | : No specific data.  |  |
| Indication of immediate me  | dical attention and special treatment needed, if necessary   |  |
| Notes to physician          | : In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal. |  |
| Specific treatments         | : Treat symptomatically and supportively.  |  |
| Protection of first-aiders  | : No action shall be taken involving any personal risk or without suitable training.   |  |
|                             |  |  |

#### See toxicological information (Section 11)

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### Section 5. Fire-fighting measures

| Extinguishing media                            |   |
|--|---|
| Suitable extinguishing media                   | : Use an extinguishing agent suitable for the surrounding fire.   |
| Unsuitable extinguishing media                 | : None known.   |
| Specific hazards arising from the chemical     | : In a fire or if heated, a pressure increase will occur and the container may burst.   |
| Hazardous thermal decomposition products       | : No specific data.   |
| 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. |
| 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, protect  | ive equipment and emergency procedures   |
|--------------------------------|--|
| For non-emergency<br>personnel | : No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilled material. Put on appropriate personal<br>protective equipment.   |
| For emergency responders       | : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".  |
| Environmental precautions      | : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).  |
| Methods and materials for co   | ntainment and cleaning up  |
| Small spill                    | : Stop leak if without risk. Move containers from spill area. 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. 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. 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).   |
|--|---|
| Advice on general occupational hygiene | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

### Section 7. Handling and storage

| Conditions for safe storage,<br>including any<br>incompatibilities | : Store in accordance with local regulations. 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. 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. |
|--|--|
|  | Bulk Storage Conditions: Maintain all storage tanks in accordance with applicable regulations. Use necessary controls to monitor tank inventories. Inspect all storage tanks on a periodic basis. Test tanks and associated piping for tightness. Maintain the automatic leak detection devices to assure proper working condition.  |

### Section 8. Exposure controls/personal protection

| Control parameters               |  |   |  |  |
|----------------------------------|--|---|--|--|
| Occupational exposure li         | i <u>mits</u>  |   |  |  |
| Distillates (petroleum), hyc     | drotreated heavy paraffinic  | ACGIH TLV (United States, 1/2021).<br>TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable   |  |  |
|                                  |  | fraction<br>OSHA PEL (United States, 5/2018).   |  |  |
|                                  |  | TWA: 5 mg/m <sup>3</sup> 8 hours.   |  |  |
|                                  |  | NIOSH REL (United States, 10/2020).<br>TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist  |  |  |
|                                  |  | STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist   |  |  |
| Mineral Oil                      |  | OSHA PEL (United States).<br>TWA: 5 mg/m³ 8 hours.  |  |  |
|                                  |  | ACGIH TLV (United States).  |  |  |
|                                  |  | Inhalable fraction: 5 mg/m³ 8 hours.  |  |  |
| Appropriate engineering controls | : Good general ventilation should contaminants.  | be sufficient to control worker exposure to airborne  |  |  |
| Environmental exposure controls  | they comply with the requireme   | ork process equipment should be checked to ensure<br>nts of environmental protection legislation. In some<br>engineering modifications to the process equipment will<br>ons to acceptable levels  |  |  |
|                                  |  |   |  |  |
| Individual protection meas       |  |   |  |  |
| Hygiene measures                 | eating, smoking and using the l<br>Appropriate techniques should   | e thoroughly after handling chemical products, before<br>avatory and at the end of the working period.<br>be used to remove potentially contaminated clothing.<br>efore reusing. Ensure that eyewash stations and safety<br>tation location.  |  |  |
| Eye/face protection              | industrial settings. If contact is<br>the assessment indicates a hig<br>Safety eyewear complying with<br>assessment indicates this is ne | Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. 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 inhalation hazards exist, a full-face respirator may be required instead. |  |  |
| Skin protection                  |  |   |  |  |
| Hand protection                  |  | plying with an approved standard should be worn at all products if a risk assessment indicates this is necessary.   |  |  |
| Body protection                  |  | for the body should be selected based on the task being<br>ad and should be approved by a specialist before   |  |  |
| Other skin protection            | measures should be selected b  | Appropriate footwear and any additional skin protection<br>ased on the task being performed and the risks involved<br>pecialist before handling this product. Leather boots are   |  |  |

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### Section 8. Exposure controls/personal protection

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

### Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

| Physical state   | : Liquid.  |
|--|--|
| Color  | : Colorless to light yellow. [Light]   |
| Odor   | : Not available.   |
| рН   | : Not available.   |
| Boiling point, initial boiling point, and boiling range        | : Not available.   |
| Flash point<br>Lower and upper explosive<br>(flammable) limits | <ul> <li>Open cup: 206°C (402.8°F) [Cleveland] [Product does not sustain combustion.]</li> <li>Not available.</li> </ul> |

Vapor pressure

**Relative vapor density** 

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Relative density Density Ibs/gal

|  | Vapor Pressure at 20°C |            |             | Vapor pressure at 50° |     | ure at 50°C |
|--|------------------------|------------|-------------|-----------------------|-----|-------------|
| Ingredient name  | mm Hg                  | kPa        | Method      | mm<br>Hg              | kPa | Method      |
| benzene  | 75.01                  | 10         |             |                       |     |             |
| ethyl acrylate   | 30                     | 4          |             |                       |     |             |
| toluene  | 23.17                  | 3.1        |             |                       |     |             |
| ethylbenzene   | 9.3                    | 1.2        |             |                       |     |             |
| xylene   | 6.7                    | 0.89       |             |                       |     |             |
| mesitylene   | 2.4                    | 0.32       |             |                       |     |             |
| 1,2,4-trimethylbenzene   | 2.25                   | 0.3        |             |                       |     |             |
| 1,2,3-trimethylbenzene   | 1.35                   | 0.18       |             |                       |     |             |
| Naphtha (petroleum),<br>hydrotreated heavy                                   | 0.75 to<br>2.25        | 0.1 to 0.3 |             |                       |     |             |
| 2-ethylhexyl acrylate  | 0.18                   | 0.024      |             |                       |     |             |
| Distillates (petroleum),<br>hydrotreated heavy<br>paraffinic                 | <0.08                  | <0.011     | ASTM D 5191 |                       |     |             |
| Distillates (petroleum),<br>hydrotreated light<br>paraffinic                 | <0.08                  | <0.011     | ASTM D 5191 |                       |     |             |
| Distillates (petroleum),<br>solvent-dewaxed light<br>paraffinic              | <0.08                  | <0.011     | ASTM D 5191 |                       |     |             |
| Distillates (petroleum),<br>solvent-dewaxed heavy<br>paraffinic              | <0.08                  | <0.011     | ASTM D 5191 |                       |     |             |
| Benzenamine, N-phenyl-<br>, reaction products with<br>2,4,4-trimethylpentene | <0.01                  | <0.0013    | EU A.4      |                       |     |             |
| 4,4'-methylene bis<br>(dibutyldithiocarbamate)                               | 0                      | 0          |             |                       |     |             |
| Not available.   |                        |            |             |                       |     |             |
| Not available.   |                        |            |             |                       |     |             |
| 7.21 lbs/gal   |                        |            |             |                       |     |             |

| Density gm/cm <sup>3</sup> | : Not available.                              |
|----------------------------|---|
| Gravity, °API              | : 33  |
| Auto-ignition temperature  | : Not applicable.                             |
| Viscosity                  | : Kinematic (40°C (104°F)): 46 mm²/s (46 cSt) |
| Viscosity SUS              | : Estimated 213 SUS @104 F                    |
| Flow time (ISO 2431)       | : Not available.                              |
| Particle characteristics   |   |
| Median particle size       | : Not applicable.                             |

| Section 10. Stability and reactivity |   |  |  |  |
|--------------------------------------|---|--|--|--|
| Reactivity                           | : Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s). |  |  |  |
| 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                  | : No specific data.   |  |  |  |
| Incompatible materials               | : No specific data.   |  |  |  |
| 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   |
|---|--|---|--|--------------------|--|
| Distillates (petroleum),<br>hydrotreated heavy paraffinic | LD50 Dermal  |   | Rat  | >5000 mg/kg        | -  |
| ,   | LD50 Oral  |   | Rat  | >5000 mg/kg        | -  |
| Conclusion/Summary  | highly refined of<br>Effects from sin<br>oil mists well at<br>reaction, lipoid<br>studies involvin | ils are reported to<br>ngle and short-terr<br>pove applicable we<br>granuloma format<br>g exposures to lo | have low acute a<br>n repeated exposorkplace exposur<br>ion and lipoid pro-<br>wer concentration | and sub-acute toxi | entrations of minera<br>ng inflammatory<br>and sub-acute<br>sts at or near |
| Irritation/Corrosion                                      |  |   |  |                    |  |
| Not available.  |  |   |  |                    |  |
| Skin  | : No additional in   | formation.  |  |                    |  |
| Eyes  | : No additional in   | formation.  |  |                    |  |
| Respiratory   | : No additional in   | formation.  |  |                    |  |
| Sensitization   |  |   |  |                    |  |
| Not available.  |  |   |  |                    |  |
| Skin  | : No additional in   | formation.  |  |                    |  |
| Respiratory   | : No additional in   | formation.  |  |                    |  |
| <b>Mutagenicity</b>                                       |  |   |  |                    |  |
| Not available.  |  |   |  |                    |  |
| Conclusion/Summary  | : No additional in   | formation.  |  |                    |  |
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### Section 11. Toxicological information

| Section 11. Toxic   | ological information  |
|---|---|
| Carcinogenicity   |   |
| Not available.  |   |
| Conclusion/Summary<br>Reproductive toxicity<br>Not available. | : No additional information.  |
| Conclusion/Summary<br><u>Teratogenicity</u><br>Not available. | : No additional information.  |
| Conclusion/Summary  | : No additional information.  |
| Specific target organ toxic<br>Not available.                 | ity (single exposure)   |
| <u>Specific target organ toxic</u><br>Not available.          | ity (repeated exposure)   |
| Aspiration hazard<br>Not available.                           |   |
| Information on the likely routes of exposure                  | : Not available.  |
| Potential acute health effect                                 | <u>s</u>  |
| Eye contact   | : No known significant effects or critical hazards.   |
| Inhalation  | : No known significant effects or critical hazards.   |
| Skin contact  | : Injection of pressurized hydrocarbons can cause severe permanent tissue damage.<br>Initial symptoms may be minor. |
| Ingestion   | : No known significant effects or critical hazards.   |
| Symptoms related to the phy                                   | vsical, chemical and toxicological characteristics  |
| Eye contact   | : No specific data.   |
| Inhalation  | : No specific data.   |
| Skin contact  | : No specific data.   |
| Ingestion   | : No specific data.   |
| Delayed and immediate effe                                    | cts 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 effects                                   | : Not available.  |
| Potential delayed effects                                     | : Not available.  |
| Potential chronic health eff                                  | fects   |
| Not available.  |   |
| General   | : No known significant effects or critical hazards.   |
| Carcinogenicity   | No known significant effects or critical hazards.   |
| 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.   |
|   |   |

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#### Section 11. Toxicological information

**Fertility effects** 

: No known significant effects or critical hazards.

#### Numerical measures of toxicity

Acute toxicity estimates

N/A

### Section 12. Ecological information

#### **Toxicity**

Not available.

**Conclusion/Summary** : Not available.

#### Persistence and degradability

**Conclusion/Summary** : Not available.

#### **Bioaccumulative potential**

Not available.

| Мо | bili | ty i | n | soil |
|----|------|------|---|------|
|    |      | _    |   |      |

| Soil/water partition | : Not available. |
|----------------------|------------------|
| coefficient (Koc)    |                  |

#### 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. |
|------------------|--|
|                  |  |

RCRA classification

: D018

#### Section 14. Transport information

|                               | DOT Classification        | IMDG                             | ΙΑΤΑ             |
|-------------------------------|---------------------------|----------------------------------|------------------|
| UN number                     | Not regulated.            | Not regulated.                   | Not regulated.   |
| UN proper<br>shipping name    | -                         | -                                | -                |
| Transport<br>hazard class(es) | -                         | -                                | -                |
| Packing group                 | -                         | -                                | -                |
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#### Section 14. Transport information

|               | •   |     |     |
|---------------|-----|-----|-----|
| Environmental | No. | No. | No. |
| hazards       |     |     |     |
|               |     |     |     |

**Oil:** The product(s) represented by this SDS is (are) regulated as "oil" under 49 CFR Part 130. Shipments by rail or highway in packaging having a capacity of 3500 gallons or more or in a quantity greater 42,000 gallons are subject to these requirements. In addition, mixtures containing 10% or more of this product may be subject to these requirements.

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

Transport in bulk according : Not available. to IMO instruments

#### Section 15. Regulatory information

| U.S. Federal regulations | : | United States inventory (TSCA 8b): Not determined.  |
|--------------------------|---|---|
|                          |   | Clean Water Act (CWA) 307: toluene; ethylbenzene; benzene   |
|                          |   | Clean Water Act (CWA) 311: toluene; xylene; ethylbenzene; benzene   |
|                          |   | This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802. |

Composition/information on ingredients

SARA 304 RQ : Not applicable.

SARA 311/312

SARA 302/304

Classification : HNOC - Injection Hazards

Composition/information on ingredients

No products were found.

| State regulations |                                      |
|-------------------|--------------------------------------|
| Massachusetts     | : None of the components are listed. |
| New York          | : None of the components are listed. |
| New Jersey        | : None of the components are listed. |
| Pennsylvania      | : None of the components are listed. |
|                   | an and December Manufactor (0040)    |

California Prop. 65 Clear and Reasonable Warnings (2018)

▲ WARNING: This product can expose you to chemicals including Ethylbenzene, which is 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. For more information go to www.P65Warnings.ca.gov.

| Ingredient name | %       | Cancer | Reproductive | No significant risk<br>level | Maximum<br>acceptable dosage<br>level |
|-----------------|---------|--------|--------------|------------------------------|---------------------------------------|
| toluene         | <0.1    | No.    | Yes.         | -                            | Yes.                                  |
| ethylbenzene    | <0.001  | Yes.   | No.          | Yes.                         | -                                     |
| ethyl acrylate  | <0.001  | Yes.   | No.          | -                            | -                                     |
| benzene         | <0.0001 | Yes.   | Yes.         | Yes.                         | Yes.                                  |

International regulations

### Section 15. Regulatory information

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

#### **Inventory list**

| United States     | : Not determined.  |
|-------------------|--|
| Australia         | : Not determined.  |
| Canada            | : Not determined.  |
| China             | : Not determined.  |
| Europe            | : Not determined.  |
| Japan             | : Japan inventory (CSCL): Not determined.<br>Japan inventory (ISHL): Not determined. |
| Malaysia          | : Not determined   |
| New Zealand       | : Not determined.  |
| Philippines       | : Not determined.  |
| Republic of Korea | : Not determined.  |
| Taiwan            | : Not determined.  |
| Thailand          | : Not determined.  |
| Turkey            | : Not determined.  |
| Viet Nam          | : Not determined.  |

### Section 16. Other information

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



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |
| History         | ·             |

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#### Section 16. Other information

| Key to abbreviations | : ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor  |
|----------------------|---|
|                      | GHS = Globally Harmonized System of Classification and Labelling of Chemicals   |
|                      | IATA = International Air Transport Association  |
|                      | IBC = Intermediate Bulk Container   |
|                      | IMDG = International Maritime Dangerous Goods   |
|                      | LogPow = logarithm of the octanol/water partition coefficient   |
|                      | MARPOL = International Convention for the Prevention of Pollution From Ships, 1973<br>as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>UN = United Nations |
| References           | : Not available.  |

✓ Indicates information that has changed from previously issued version.

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