

Safety Data Sheet

HiTEC® 3488 Performance Additive

SDS no. H3488 Date of issue/Date of 11/8/2022

revision

Section 1. Identification

GHS product identifier

Product use

: HiTEC® 3488 Performance Additive

: Petrochemical industry: Automatic Transmission Fluid Additive Package

In case of emergency - Chemical

0800-70-77-022 (Brazil) 800-681-9531 (Mexico) +1-703-527-3887 (International) +1-703-741-5979 (Spanish language) +1-800-424-9300 (US & Canada)

Manufacturer / Supplier

Afton Chemical Corporation 500 Spring St. Richmond, VA 23219 USA

Non-Emergency Telephone: +1-804-788-5800

Afton Chemical Canada Corporation 5045 South Service Road Suite 101 Burlington, ON L7L 5Y7 905-631-5470

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 | : TOXIC TO REPRODUCTION (Unborn child) - Category 2 |
| GHS label elements | |
| Hazard pictograms | |
| Signal word | : Warning |
| Hazard statements | : Suspected of damaging the unborn child. |
| Precautionary statements | |
| Prevention | : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. |
| Response | : IF exposed or concerned: Get medical advice or attention. |
| Storage | : Store locked up. Store in a well-ventilated place. |
| Disposal | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Additional hazards | : None known. |

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

| Ingredient name | CAS number | Conc. (% w/w) | US GHS Classification |
|--|------------|---------------|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | ≥10 - ≤15 | Not classified. |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 72623-86-0 | ≥10 - ≤15 | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | ≥10 - ≤15 | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | ≥5 - ≤10 | Not classified. |
| Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates | 80939-62-4 | ≥1 - ≤3 | SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A |
| methyl-1H-benzotriazole | 29385-43-1 | ≥0.1 - ≤0.3 | ACUTE TOXICITY (oral) - Category 4 TOXIC TO REPRODUCTION (Unborn child) - Category 2 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation. If specific chemical identify is withheld, it is to protect confidentiality.

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

Section 4. First aid measures

Description of necessary first aid measures

| Eye contact | : | Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs. |
|--------------|---|---|
| Inhalation | - | If inhaled, remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen. |
| Skin contact | : | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. Continue to rinse for at least 15 minutes. |
| Ingestion | - | Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |

Most important symptoms/effects, acute and delayed

| Potential acute health e | effects | | |
|------------------------------|---|--|--|
| Eye contact | : No known significant effects or critical hazards. | | |
| Inhalation | : No known significant effects or critical hazards. | | |
| Skin contact | : No known significant effects or critical hazards. | | |
| Ingestion | : No known significant effects or critical hazards. | | |
| Over-exposure signs/symptoms | | | |

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Section 4. First aid measures

| Eye contact | : No specific data. |
|--------------|--|
| Inhalation | : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |
| Skin contact | : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |
| Ingestion | Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |

| indication of infinediate med | and attention and special treatment needed, in necessary |
|-------------------------------|--|
| Notes to physician | : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Specific treatments | : No specific treatment. |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |

See toxicological information (Section 11)

Section 5. Fire-fighting measures

| Extinguishing media | |
|--|---|
| | |
| Suitable extinguishing media | : In case of fire, use water spray (fog), foam, dry chemical or CO ₂ . |
| Unsuitable extinguishing media | : Do not use water jet. |
| 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 | : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen 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. |
| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

Section 6. Accidental release measures

| Personal precautions, protective equipment and emergency procedures | | | |
|---|--|--|--|
| For non-emergency personnel | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. | | |
| For emergency responders | : If 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". | | |

Section 6. Accidental release measures

| 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 | ontainment 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. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |
| | |

Section 7. Handling and storage

| Precautions for safe handling | 2 | |
|--|---|---|
| Protective measures | : | Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| Advice on general occupational hygiene | : | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Conditions for safe storage, including any incompatibilities | : | Store in accordance with local regulations. Store in 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. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. |

Section 8. Exposure controls/personal protection

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|--|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | ACGIH TLV (United States, 1/2022). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | ACGIH TLV (United States, 1/2022). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction OSHA PEL (United States, 5/2018). |

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Section 8. Exposure controls/personal protection

| Distillates (petroleum), hydrotreated light paraffinic | TWA: 5 mg/m ³ 8 hours. ACGIH TLV (United States, 1/2022). TWA: 5 mg/m ³ 8 hours. Form: Inhalable |
|--|--|
| Distillates (petroleum), hydrotreated light paraffinic | fraction OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. ACGIH TLV (United States, 1/2022). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction OSHA PEL (United States, 5/2018). |
| | TWA: 5 mg/m ³ 8 hours. |

| Appropriate engineering controls | : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to |
|----------------------------------|---|
| | airborne contaminants below any recommended or statutory limits. |

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

| Individual protection measures | |
|--------------------------------|---|
| | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Eye/face protection : | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. |
| Skin protection | |
| Hand protection : | Hand Protection: Wear chemical resistant gloves. Nitrile gloves of minimum thickness 0.4 mm have an expected breakthrough time of 480 minutes or less when in frequent contact with the product. Due to variable exposure conditions the user must consider that the practical use of a chemical-protective glove in practice may be much shorter than the permeation time above. Manufacturer's directions for use, especially about the minimum thickness and the minimum breakthrough time, must be observed. This information does not replace suitability tests by the end user since glove protection varies depending on the conditions under which the product is used. |
| Body protection : | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. |

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Section 9. Physical and chemical properties

<u>Appearance</u>

| Physical state | : | Liquid. [Hazy] |
|--|---|--|
| Color | : | Amber. |
| Odor | : | Petroleum. |
| Odor threshold | : | Not available. |
| рН | : | Not available. |
| Melting point | : | Not available. |
| Boiling point | : | Not available. |
| Flash point | : | Closed cup: 130°C (266°F) [Minimum Pensky-Martens] |
| Evaporation rate | : | Not available. |
| Flammability (solid, gas) | : | Not available. |
| Lower and upper explosive (flammable) limits | : | Not available. |
| Vapor pressure | : | Not available. |
| Vapor density | : | Not available. |
| Density | : | 0.912 g/cm³ [60.1°F (15.6°C)] |
| Relative density | : | 0.913 |
| Solubility(ies) | 1 | |

| Media | | Result | | | |
|--|-----|---|---------|--|--|
| cold water | | Not soluble | | | |
| Partition coefficient: n- octanol/water | : N | lot applicable. | | | |
| Auto-ignition temperature | : N | lot available. | | | |
| Decomposition temperature | : N | : Not available. | | | |
| Viscosity | | Kinematic (40°C (104°F)): 1195 mm²/s (1195 cSt) 08 cSt @ 100°C | Minimum | | |
| Explosive properties | : 1 | Not available. | | | |
| Oxidizing properties | : 1 | Not available. | | | |

Section 10. Stability and reactivity

| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
|------------------------------------|--|
| Chemical stability | : The product is stable. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | : High temperatures, sparks and open flames. |
| Incompatible materials | : Strong oxidizing and reducing agents. |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Test | Result | Species | Dose | Exposure | Remarks |
|--|--|------------------------------------|---------|-------------|----------|--|
| Distillates (petroleum), hydrotreated heavy paraffinic | 403 Acute Inhalation Toxicity | LC50 Inhalation Dusts and mists | Rat | >5.53 mg/l | 4 hours | Based on data for a similar substance. |
| | 402 Acute Dermal Toxicity | LD50 Dermal | Rabbit | >5000 mg/kg | - | Based on data for a similar substance. |
| | 401 Acute Oral Toxicity | LD50 Oral | Rat | >5000 mg/kg | - | Based on data for a similar substance. |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 403 Acute Inhalation Toxicity | LC50 Inhalation Dusts and mists | Rat | >5.53 mg/l | 4 hours | Based on data for a similar substance. |
| | 402 Acute Dermal Toxicity | LD50 Dermal | Rabbit | >5000 mg/kg | - | Based on data for a similar substance. |
| | 401 Acute Oral Toxicity | LD50 Oral | Rat | >5000 mg/kg | - | Based on data for a similar substance. |
| Distillates (petroleum), hydrotreated light paraffinic | 403 Acute Inhalation Toxicity | LC50 Inhalation Dusts and mists | Rat | >5.53 mg/l | 4 hours | Based on data for a similar substance. |
| | 402 Acute Dermal Toxicity | LD50 Dermal | Rabbit | >5000 mg/kg | - | Based on data for a similar substance. |
| | 401 Acute Oral Toxicity | LD50 Oral | Rat | >5000 mg/kg | - | Based on data for a similar substance. |
| Distillates (petroleum), hydrotreated light paraffinic | 403 Acute Inhalation Toxicity | LC50 Inhalation Dusts and mists | Rat | >5.53 mg/l | 4 hours | Based on data for a similar substance. |
| | 402 Acute Dermal Toxicity | LD50 Dermal | Rabbit | >5000 mg/kg | - | Based on data for a similar substance. |
| | 401 Acute Oral Toxicity | LD50 Oral | Rat | >5000 mg/kg | - | Based on data for a similar substance. |
| Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates | 402 Acute Dermal Toxicity | LD50 Dermal | Rat | >2000 mg/kg | - | - |
| | 401 Acute Oral Toxicity | LD50 Oral | Rat | >5000 mg/kg | - | - |
| methyl-1H-benzotriazole | None available. | LC50 Inhalation Vapor | Rat | >1730 mg/m³ | 1 hours | - |
| | 402 Acute Dermal Toxicity | LD50 Dermal | Rabbit | >2000 mg/kg | - | Based on data for a similar substance. |
| Conclusion/Summary | 401 Acute Oral Toxicity Not available. | LD50 Oral | Rat | 720 mg/kg | - | - |

Conclusion/Summary : Not available.

Irritation/Corrosion

| | _ | 1 | | 1 |
|--|--|-----------|------------------------|--|
| Product/ingredient name | Test | Species | Result | Remarks |
| Distillates (petroleum), | 405 Acute Eye | Rabbit | Eyes - Not an Irritant | Based on data for a |
| hydrotreated heavy paraffinic | Irritation/Corrosion | | | similar substance. |
| | 404 Acute Dermal | Rabbit | Skin - Not an Irritant | Based on data for a |
| | Irritation/Corrosion | | | similar substance. |
| Lubricating oils (petroleum), | 405 Acute Eye | Rabbit | Eyes - Not an Irritant | Based on data for a |
| C15-30, hydrotreated neutral oil-based | Irritation/Corrosion | | | similar substance. |
| | None available. | Rabbit | Skin - Not an Irritant | Based on data for a |
| | | | | similar substance. |
| Distillates (petroleum), | 405 Acute Eye | Rabbit | Eyes - Not an Irritant | Based on data for a |
| hydrotreated light paraffinic | Irritation/Corrosion | | | similar substance. |
| | 404 Acute Dermal | Rabbit | Skin - Mild irritant | Based on data for a |
| | Irritation/Corrosion | | | similar substance. WOE |
| | | | | does not support |
| | | | | classification |
| | None available. | Rabbit | Skin - Not an Irritant | Based on data for a |
| | | D. L. K | | similar substance. |
| Distillates (petroleum), | 405 Acute Eye | Rabbit | Eyes - Not an Irritant | Based on data for a |
| hydrotreated light paraffinic | Irritation/Corrosion | Dabbit | Okin Mild invitant | similar substance. |
| | 404 Acute Dermal Irritation/Corrosion | Rabbit | Skin - Mild irritant | Based on data for a similar substance. WOE |
| | Initation/Corrosion | | | |
| | | | | does not support classification |
| | None available. | Rabbit | Skin - Not an Irritant | Based on data for a |
| | | Rabbit | | similar substance. |
| Amines, C11-14-branched | 405 Acute Eye | Rabbit | Eyes - Irritant | - |
| alkyl, monohexyl and dihexyl | Irritation/Corrosion | 1 top bit | | |
| phosphates | | | | |
| | 404 Acute Dermal | Rabbit | Skin - Irritant | - |
| | Irritation/Corrosion | | | |
| methyl-1H-benzotriazole | 405 Acute Eye | Rabbit | Eyes - Not an Irritant | - |
| | Irritation/Corrosion | | | |
| | 404 Acute Dermal | Rabbit | Skin - Not an Irritant | - |
| | Irritation/Corrosion | | | |
| | | | | |

| Conclusion/Summary | |
|--------------------|--|
| Skin | : Causes mild skin irritation. |
| Eyes | : Non-irritating to the eyes. Based on test data for this or similar products. |
| Respiratory | : Not available. |

Sensitization

| Species | Result | Remarks |
|------------|--------------------|--|
| Guinea pig | Not sensitizing | Based on data for a similar substance. |
| Guinea pig | Not sensitizing | Based on data for a similar substance. |
| Guinea pig | Not sensitizing | Based on data for a similar substance. |
| Guinea pig | Not sensitizing | Based on data for a similar substance. |
| Guinea pig | Not sensitizing | - |
| | Guinea pig | Guinea pig Not |

Skin

Respiratory

Mutagenicity

: Not available.

: Not available.

| Product/ingredient name | Test | Experiment | Result | Remarks |
|---|----------------------------------|---------------------------|----------|---------------------|
| Distillates (petroleum), | 471 Bacterial Reverse | Experiment: In vitro | Negative | Based on data for a |
| hydrotreated heavy paraffinic | Mutation Test | Subject: Bacteria | | similar substance. |
| | 473 <i>In vitro</i> Mammalian | Experiment: In vitro | Negative | Based on data for a |
| | Chromosomal Aberration Test | Subject: Mammalian-Animal | | similar substance. |
| | 476 <i>In vitro</i> Mammalian | Experiment: In vitro | Negative | Based on data for a |
| | Cell Gene Mutation Test | Subject: Mammalian-Animal | 5 | similar substance. |
| | 474 Mammalian | Experiment: In vivo | Negative | Based on data for a |
| | Erythrocyte Micronucleus Test | Subject: Mammalian-Animal | 5 | similar substance. |
| Lubricating oils (petroleum), | 471 Bacterial Reverse | Experiment: In vitro | Negative | Based on data for a |
| C15-30, hydrotreated neutral oil-based | Mutation Test | Subject: Bacteria | Ŭ | similar substance. |
| | 473 <i>In vitro</i> Mammalian | Experiment: In vitro | Negative | Based on data for a |
| | Chromosomal Aberration Test | Subject: Mammalian-Animal | 5 | similar substance. |
| Distillates (petroleum), | 471 Bacterial Reverse | Experiment: In vitro | Negative | Based on data for a |
| hydrotreated light paraffinic | Mutation Test | Subject: Bacteria | Ũ | similar substance. |
| | 473 <i>In vitro</i> Mammalian | Experiment: In vitro | Negative | Based on data for a |
| | Chromosomal Aberration Test | Subject: Mammalian-Animal | _ | similar substance. |
| Distillates (petroleum), | 471 Bacterial Reverse | Experiment: In vitro | Negative | Based on data for a |
| hydrotreated light paraffinic | Mutation Test | Subject: Bacteria | U U | similar substance. |
| | 473 <i>In vitro</i> Mammalian | Experiment: In vitro | Negative | Based on data for a |
| | Chromosomal Aberration Test | Subject: Mammalian-Animal | | similar substance. |
| Amines, C11-14-branched | 471 Bacterial Reverse | Experiment: In vitro | Negative | - |
| alkyl, monohexyl and dihexyl phosphates | Mutation Test | Subject: Bacteria | Ŭ | |
| | 476 <i>In vitro</i> Mammalian | Experiment: In vitro | Negative | - |
| | Cell Gene Mutation Test | Subject: Mammalian-Animal | Ŭ | |
| methyl-1H-benzotriazole | 471 Bacterial Reverse | Experiment: In vitro | Negative | - |
| - | Mutation Test | Subject: Bacteria | | |
| | 476 <i>In vitro</i> Mammalian | Experiment: In vitro | Negative | Based on data for a |
| | Cell Gene Mutation Test | Subject: Mammalian-Animal | | similar substance. |

Conclusion/Summary : Not available.

Carcinogenicity

| Product/ingredient name | Test | Species | Exposure | Result | Remarks |
|--|--------------------------------|---------|----------|---------------------------------|--|
| Distillates (petroleum), hydrotreated heavy paraffinic | 451 Carcinogenicity Studies | Mouse | 78 weeks | Negative - Dermal - NOAEL | Based on data for a similar substance. |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 451 Carcinogenicity Studies | Mouse | 78 weeks | Negative - Dermal - TD | Based on data for a similar substance. |
| Distillates (petroleum), hydrotreated light paraffinic | 451 Carcinogenicity Studies | Mouse | 78 weeks | Negative - Dermal - NOAEL | Based on data for a similar substance. |

Conclusion/Summary : Not available.

Classification

Reproductive toxicity

| Product/ingredient name | Test | Route of exposure | Species | Maternal toxicity | Fertility | Development toxin | Remarks |
|--|--|-------------------|---------|----------------------|-----------|----------------------|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | 421 Reproduction/ Developmental Toxicity Screening Test | Oral | Rat | Negative | Negative | Negative | Based on data for a similar substance. |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil- based | 421 Reproduction/ Developmental Toxicity Screening Test | Dermal | Rat | Negative | Negative | Negative | Based on data for a similar substance. |
| | 421 Reproduction/ Developmental Toxicity Screening Test | Oral | Rat | Negative | Negative | Negative | Based on data for a similar substance. |
| Distillates (petroleum), hydrotreated light paraffinic | 421 Reproduction/ Developmental Toxicity Screening Test | Oral | Rat | Negative | Negative | Negative | Based on data for a similar substance. |
| Distillates (petroleum), hydrotreated light paraffinic | 421 Reproduction/ Developmental Toxicity Screening Test | Oral | Rat | Negative | Negative | Negative | Based on data for a similar substance. |
| Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates | 422 Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test | Oral | Rat | Positive | Negative | Negative | - |

Conclusion/Summary

: Not available.

Teratogenicity

| Product/ingredient name | Test | Species | Result | Remarks |
|--|--|---------|-------------------|--|
| Distillates (petroleum), hydrotreated heavy paraffinic | 414 Prenatal Developmental Toxicity Study | Rat | Negative - Dermal | Based on data for a similar substance. |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 414 Prenatal Developmental Toxicity Study | Rat | Negative - Dermal | Based on data for a similar substance. |
| Distillates (petroleum), hydrotreated light paraffinic | 414 Prenatal Developmental Toxicity Study | Rat | Negative - Dermal | Based on data for a similar substance. |
| Distillates (petroleum), hydrotreated light paraffinic | 414 Prenatal Developmental Toxicity Study | Rat | Negative - Dermal | Based on data for a similar substance. |
| methyl-1H-benzotriazole | 414 Prenatal Developmental Toxicity Study | Rat | Positive - Oral | - |

Conclusion/Summary

: The classification of this product is based on the concentration of the reproductive substance present: methyl-1H-benzotriazole

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

| Name | Result |
|---------------|--|
| S (1) | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |

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Section 11. Toxicological information Information on the likely : Skin, Eyes, Ingestion, and Inhalation routes of exposure Potential acute health effects : No known significant effects or critical hazards. Eye contact Inhalation : No known significant effects or critical hazards. : No known significant effects or critical hazards. **Skin contact** : No known significant effects or critical hazards. Ingestion Symptoms related to the physical, chemical and toxicological characteristics Eye contact : No specific data. Inhalation : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations **Skin contact** : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations Ingestion : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

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

| <u>Short term exposure</u> | | |
|-----------------------------|---|--------------|
| Potential immediate effects | alation of oil mist or vapors at elevated temperatures may cause respiratory estion may cause gastrointestinal irritation and diarrhea. | rirritation. |
| Potential delayed effects | t available. | |
| Long term exposure | | |
| Potential immediate effects | peated or prolonged contact with the mixture may cause removal of natural skin, resulting in non-allergic contact dermatitis and absorption through the | |
| Potential delayed effects | t available. | |

Potential chronic health effects

| Product/ingredient name | Test | Species | Dose | Exposure | Result | Remarks |
|--|---|---------|------------|----------|--|--|
| Distillates (petroleum), hydrotreated heavy paraffinic | 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents | Rat | 125 mg/kg | - | Sub-chronic LOAEL Oral | Based on data for a similar substance. |
| | 410 Repeated Dose Dermal Toxicity: 21/28-day Study | Rabbit | 1000 mg/kg | - | Sub-acute NOAEL Dermal | Based on data for a similar substance. |
| | 411 Subchronic Dermal Toxicity: 90-day Study | Rat | 30 mg/kg | - | Sub-chronic NOAEL Dermal | Based on data for a similar substance. |
| | None available. | Rat | 0.15 mg/l | 13 weeks | Sub-chronic NOAEL Inhalation Dusts and mists | Based on data for a similar substance. |
| | None available. | Rat | 0.22 mg/l | 4 weeks | Sub-chronic NOAEL Inhalation Dusts and mists | Based on data for a similar substance. |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents | Rat | 125 mg/kg | - | Sub-chronic LOAEL Oral | Based on data for a similar substance. |

HiTEC® 3488 Performance Additive

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Section 11. Toxicological information

| | 410 Repeated Dose | Rabbit | 1000 mg/kg | - | Sub-acute | Based on data |
|---|----------------------|------------|------------|----------|--------------|---------------|
| | Dermal Toxicity: | | | | NOAEL Dermal | for a similar |
| | 21/28-day Study | | | | | substance. |
| | None available. | Rat | 0.15 mg/l | 13 weeks | Sub-chronic | Based on data |
| | | | Ū | | NOAEL | for a similar |
| | | | | | Inhalation | substance. |
| | | | | | Vapor | |
| | None available. | Rat | 0.98 mg/l | 4 weeks | Sub-acute | Based on data |
| | | | Ŭ | | NOAEL | for a similar |
| | | | | | Inhalation | substance. |
| | | | | | Vapor | |
| Distillates (petroleum), | 410 Repeated Dose | Rabbit | 1000 mg/kg | - | Sub-acute | Based on data |
| hydrotreated light paraffinic | Dermal Toxicity: | | 00 | | NOAEL Dermal | for a similar |
| , | 21/28-day Study | | | | | substance. |
| | 411 Subchronic | Rat | 30 mg/kg | - | Sub-chronic | Based on data |
| | Dermal Toxicity: | | 5° 5 | | NOAEL Dermal | for a similar |
| | 90-day Study | | | | | substance. |
| | 408 Repeated Dose | Rat | 125 mg/kg | - | Sub-chronic | Based on data |
| | 90-Day Oral Toxicity | | 00 | | NOAEL Oral | for a similar |
| | Study in Rodents | | | | | substance. |
| | None available. | Rat | 0.15 mg/l | 13 weeks | Sub-chronic | Based on data |
| | | | - | | NOAEL | for a similar |
| | | | | | Inhalation | substance. |
| | | | | | Dusts and | |
| | | | | | mists | |
| | None available. | Rat | 0.22 mg/l | 4 weeks | Sub-acute | Based on data |
| | | | _ | | NOAEL | for a similar |
| | | | | | Inhalation | substance. |
| | | | | | Dusts and | |
| | | | | | mists | |
| | 412 Repeated Dose | Rat | 0.05 mg/l | 4 weeks | Sub-acute | Based on data |
| | Inhalation Toxicity: | | | | NOAEL | for a similar |
| | 28-day or 14-day | | | | Inhalation | substance. |
| | Study | | | | Dusts and | |
| | | | | | mists | |
| Distillates (petroleum), | 410 Repeated Dose | Rabbit | 1000 mg/kg | - | Sub-acute | Based on data |
| hydrotreated light paraffinic | Dermal Toxicity: | | | | NOAEL Dermal | for a similar |
| | 21/28-day Study | | | | | substance. |
| | 411 Subchronic | Rat | 30 mg/kg | - | Sub-chronic | Based on data |
| | Dermal Toxicity: | | | | NOAEL Dermal | |
| | 90-day Study | | | | | substance. |
| | 408 Repeated Dose | Rat | 125 mg/kg | - | Sub-chronic | Based on data |
| | 90-Day Oral Toxicity | | | | NOAEL Oral | for a similar |
| | Study in Rodents | | | | | substance. |
| | None available. | Rat | 0.15 mg/l | 13 weeks | | Based on data |
| | | | | | NOAEL | for a similar |
| | | | | | Inhalation | substance. |
| | | | | | Dusts and | |
| | | | | | mists | |
| | None available. | Rat | 0.22 mg/l | 4 weeks | Sub-acute | Based on data |
| | | | | | NOAEL | for a similar |
| | | | | | Inhalation | substance. |
| | | | | | Dusts and | |
| | 440.0 | . . | | | mists | |
| | 412 Repeated Dose | Rat | 0.05 mg/l | 4 weeks | Sub-acute | - |
| | Inhalation Toxicity: | | | | NOAEL | |
| | 28-day or 14-day | | | | Inhalation | |
| | Study | | | | Dusts and | |
| | | . . | 4.0 " | | mists | |
| Amines, C11-14-branched | 422 Combined | Rat | 10 mg/kg | - | Sub-acute | - |
| alkyl, monohexyl and dihexyl | Repeated Dose | | | | LOAEL Oral | |
| phosphates | Toxicity Study with | | | | | |
| | the Reproduction/ | | | | | |
| | | | | | | |

| methyl-1H-benzotriazole | Developmental Toxicity Screening Test 407 Repeated Dose 28-day Oral Toxicity Study in Rodents | Rat | 150 mg/kg | - | Sub-acute NOAEL Oral | - |
|------------------------------|--|--------------|---------------|-------|-------------------------|---|
| Conclusion/Summary | : Not available. | | | | | |
| General | : No known significan | t effects or | critical haza | ırds. | | |
| Carcinogenicity | : No known significant effects or critical hazards. | | | | | |
| Mutagenicity | : No known significan | t effects or | critical haza | ırds. | | |
| Teratogenicity | : Suspected of damage | ging the un | born child. | | | |
| Developmental effects | : No known significan | t effects or | critical haza | ırds. | | |
| Fertility effects | : No known significan | t effects or | critical haza | irds. | | |

Section 12. Ecological information

| <u>Toxicity</u> | | | | |
|--|---------------------------|--|----------|--|
| Product/ingredient name | Result | Species | Exposure | Remarks |
| Distillates (petroleum), hydrotreated heavy paraffinic | Acute EL50 >10000 mg/l | Daphnia - Daphnia magna | 48 hours | Based on data for a similar substance. |
| | Acute LL50 >100 mg/ I | Fish - Pimephales promelas | 96 hours | Based on data for a similar substance. |
| | Chronic NOEL ≥100 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | Based on data for a similar substance. |
| | Chronic NOEL 10 mg/l | Daphnia - Daphnia magna | 21 days | Based on data for a similar substance. |
| | Chronic NOEL 1000 mg/l | Fish - Oncorhynchus mykiss | 14 days | QSAR result. |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | Acute EL50 >10000 mg/l | Daphnia - Daphnia magna | 48 hours | Based on data for a similar substance. |
| UII-Daseu | Acute LL50 >100 mg/ I | Fish - Pimephales promelas | 96 hours | Based on data for a similar substance. |
| | Chronic NOEL ≥100 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | Based on data for a similar substance. |
| | Chronic NOEL 10 mg/l | Daphnia - Daphnia magna | 21 days | Based on data for a similar substance. |
| | Chronic NOEL 1000 mg/l | Fish - Oncorhynchus mykiss | 14 days | QSAR result. |
| Distillates (petroleum), hydrotreated light paraffinic | Acute EL50 >10000 mg/l | Daphnia - Daphnia magna | 48 hours | Based on data for a similar substance. |
| | Acute LL50 >100 mg/ I | Fish - Pimephales promelas | 96 hours | Based on data for a similar substance. |
| | Chronic NOEL ≥100 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | Based on data for a similar substance. |
| | Chronic NOEL 10 | Daphnia - Daphnia magna | 21 days | Based on data |

| | mg/l | | | for a similar |
|--|------------------------------------|--|----------|-----------------------------|
| | | | | substance. |
| | Chronic NOEL 1000 mg/l | Fish - Oncorhynchus mykiss | 14 days | QSAR result. |
| Distillates (petroleum), | Acute EL50 >10000 | Daphnia - Daphnia magna | 48 hours | Based on data |
| hydrotreated light paraffinic | mg/l | | | for a similar |
| | | | | substance. |
| | Acute LL50 >100 mg/ | Fish - Pimephales promelas | 96 hours | Based on data |
| | 1 | | | for a similar |
| | Chronic NOEL ≥100 | Algae - Pseudokirchneriella | 72 hours | substance. Based on data |
| | mg/l | subcapitata | 12 Hours | for a similar |
| | ing/i | Subouplicité | | substance. |
| | Chronic NOEL 10 | Daphnia - Daphnia magna | 21 days | Based on data |
| | mg/l | | | for a similar |
| | | | | substance. |
| | Chronic NOEL | Fish - Oncorhynchus mykiss | 14 days | - |
| | ≥1000 mg/l | Alman Daavalabinahu arialla | 70 h a | |
| Amines, C11-14-branched alkyl, monohexyl and dihexyl | Acute EL50 >10 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | - |
| phosphates | | Subcapitata | | |
| phophates | Acute EL50 >1 mg/l | Daphnia - Daphnia magna | 48 hours | - |
| | Acute IC50 >100 mg/l | Micro-organism | 3 hours | - |
| | Acute LL50 5.5 mg/l | Fish - Oncorhynchus mykiss | 96 hours | - |
| | Chronic EL10 4.9 mg/ | | 72 hours | - |
| | | subcapitata | | |
| | Chronic NOEL >10 | Daphnia - Daphnia magna | 22 days | - |
| methyl-1H-benzotriazole | mg/l Acute EL50 75 mg/l | Algae - Pseudokirchneriella | 72 hours | Based on data |
| | Fresh water | subcapitata | 12 Hours | for a similar |
| | | Subcapitata | | substance. |
| | Acute EL50 8.58 mg/ | Daphnia - Daphnia galeata | 48 hours | Based on data |
| | I Fresh water | | | for a similar |
| | | | | substance. |
| | Acute EL50 1060 mg/ | Micro-organism | 24 hours | Based on data |
| | 1 | | | for a similar |
| | | Fish Danis varia | | substance. |
| | Acute LL50 180 mg/l Fresh water | Fish - Danio rerio | 96 hours | Based on data for a similar |
| | I ICOIL WALCH | | | substance. |
| | Chronic EL10 1.18 | Algae - Desmodesmus | 72 hours | Based on data |
| | mg/l Fresh water | subspicatus | | for a similar |
| | | | | substance. |
| | Chronic EL10 0.4 mg/ | Daphnia - Daphnia galeata | 21 days | Based on data |
| | I Fresh water | | | for a similar |
| | | | | substance. |
| Conclusion/Summarv | Harmful to aquatic li | ife with long lasting effects. Toxic to | | substance. |

Conclusion/Summary

: Harmful to aquatic life with long lasting effects. Toxic to aquatic life.

Persistence and degradability

| Product/ingredient name | Test | Result | Remarks |
|--|--|------------------------------|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | OECD 301F Ready Biodegradability - Manometric Respirometry Test | 31 % - Not readily - 28 days | Based on data for a similar substance. |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | OECD 301F Ready Biodegradability - Manometric Respirometry | 31 % - Inherent - 28 days | Based on data for a similar substance. |

| I | Teet | | |
|---|----------------------------------|-------------------------------|---|
| Distillates (petroleum), hydrotreated light paraffinic | Test OECD 301F Ready | 31 % - Not readily - 28 days | Based on data for a similar substance. |
| | Biodegradability - Manometric | | |
| | Respirometry | | |
| | Test | | |
| Distillates (petroleum), | OECD 301F | 31 % - Not readily - 28 days | Based on data for a similar |
| hydrotreated light paraffinic | Ready | | substance. |
| | Biodegradability - Manometric | | |
| | Respirometry | | |
| | Test | | |
| Amines, C11-14-branched | OECD 301B | 12 to 13 % - Not readily - 28 | - |
| alkyl, monohexyl and dihexyl | Ready | days | |
| phosphates | Biodegradability - | | |
| | CO_2 Evolution | | |
| we attend the transferration of a | Test | | |
| methyl-1H-benzotriazole | OECD 301F Ready | 4 % - Not readily - 28 days | - |
| | Biodegradability - | | |
| | Manometric | | |
| | Respirometry | | |
| | Test | | |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| methyl-1H-benzotriazole | 1.081 | - | low |

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

| | DOT Classification | TDG Classification | IMDG | ΙΑΤΑ |
|-------------------------------|--------------------|--------------------|----------------|----------------|
| UN number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name | - | - | - | - |
| Transport hazard class(es) | - | - | - | - |
| Packing group | - | - | - | - |

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Section 14. Transport information

| Environmental hazards | No. | | | No. | | No. | | No. | |
|--|-----|---|---|-----|--|-----|--|-----|--|
| 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 to IMO instruments | | 1 | Not available. | | | | | | |
| Notice to reader : | | : | The above transport information is provided to assist in the proper classification of this product and may not be suitable for all shipping conditions. | | | | | | |

Section 15. Regulatory information

U.S. Federal regulations

United States - TSCA Section 5

TSCA 5(a)2 final significant new use rules

None of the components are listed.

TSCA 5(a)2 proposed significant new use rules

None of the components are listed.

TSCA 5(e) substance consent order

None of the components are listed.

United States - TSCA Section 6

TSCA 6 final risk management None of the components are listed.

United States - TSCA 12(b) - Chemical export notification

Name on list None of the components are listed.

SARA 302/304

Composition/information on ingredients

| | | | SARA 302 T | PQ | SARA 304 F | RQ |
|--|---|------------------------------|-------------------------------------|-----------------------|---------------------------|---------------------|
| Name | % | EHS | (lbs) | (gallons) | (lbs) | (gallons) |
| Hydrochloric acid phenol propylene oxide ethylene oxide | ≤0.0001 ≤0.00001 ≤0.00001 ≤0.00001 | Yes. Yes. Yes. Yes. | 500 500 / 10000 10000 1000 | - - 1444.3 - | 5000 1000 100 10 | - - 14.4 - |

SARA 304 RQ : 1694915254.2 lbs / 769491525.4 kg [222892714.1 gal / 843740707.7 L]

CERCLA: Hazardous substances.: phenol: 1000 lbs. (454 kg); ethyl acrylate: 1000 lbs. (454 kg); propylene oxide: 100 lbs. (45.4 kg); ethylene oxide: 10 lbs. (4.54 kg); 1,4-dioxane: 100 lbs. (45.4 kg); ethanediol: 5000 lbs. (2270 kg); Hydrochloric acid: 5000 lbs. (2270 kg); Phosphoric acid: 5000 lbs. (2270 kg); naphthalene: 100 lbs. (45.4 kg); toluene: 1000 lbs. (454 kg); benzene: 10 lbs. (4.54 kg); ethylbenzene: 1000 lbs. (454 kg);

<u>SARA 311/312</u>

Classification : TOXIC TO REPRODUCTION (Unborn child) - Category 2 Composition/information on ingredients <u>Status</u>

Ref. number

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Section 15. Regulatory information

| Name | % | Classification |
|-----------------------------------|-------------|---|
| Distillates (petroleum), | ≥10 - ≤15 | HNOC - Static-accumulating flammable liquid |
| hydrotreated heavy paraffinic | | |
| Lubricating oils (petroleum), | ≥10 - ≤15 | ASPIRATION HAZARD - Category 1 |
| C15-30, hydrotreated neutral oil- | | |
| based Distillates (petroleum), | ≥10 - ≤15 | ASPIRATION HAZARD - Category 1 |
| hydrotreated light paraffinic | 210-315 | HNOC - Static-accumulating flammable liquid |
| Distillates (petroleum), | ≥5 - ≤10 | HNOC - Static-accumulating flammable liquid |
| hydrotreated light paraffinic | | |
| Amines, C11-14-branched alkyl, | ≥1 - ≤3 | SKIN IRRITATION - Category 2 |
| monohexyl and dihexyl | | EYE IRRITATION - Category 2A |
| phosphates | | |
| methyl-1H-benzotriazole | ≥0.1 - ≤0.3 | ACUTE TOXICITY (oral) - Category 4 |
| | | TOXIC TO REPRODUCTION (Unborn child) - Category 2 |

SARA 313

No SARA 313 chemicals are present above the reporting threshold.

State - California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer. WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

| Ingredient name | % | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|-----------------------|----------|--------|--------------|------------------------------|---------------------------------------|
| Ethylene Glycol | ≤0.1 | No. | Yes. | - | Yes. |
| Ethyl acrylate | ≤0.01 | Yes. | No. | - | - |
| 2-ethylhexyl acrylate | ≤0.01 | Yes. | No. | - | - |
| Propylene oxide | ≤0.00001 | Yes. | No. | - | - |
| Ethylene oxide | ≤0.00001 | Yes. | Yes. | Yes. | Yes. |
| 1,4-Dioxane | ≤0.00001 | Yes. | No. | Yes. | - |
| Naphthalene | ≤0.00001 | Yes. | No. | Yes. | - |
| Toluene | ≤0.00001 | No. | Yes. | - | Yes. |
| Benzene | ≤0.00001 | Yes. | Yes. | Yes. | Yes. |
| Ethylbenzene | ≤0.00001 | Yes. | No. | Yes. | - |

www.P65Warnings.ca.gov.

Canadian regulations

| Canada Significant New Activity Notice | : None of the components are listed. |
|---|---|
| Canadian NPRI | : The following components are listed: phosphorus (total) |
| CEPA Toxic substances | : None of the components are listed. |

International Inventory Status

| international invento | ny Status |
|-----------------------|--|
| Australia | : All components are listed or exempted. |
| Canada | : All components are listed or exempted. |
| China | : All components are listed or exempted. |
| Europe | : For information on compliance with this regulation please contact your Afton representative (EHS.CustomerVolumes@AftonChemical.com). |
| Japan | : All components are listed or exempted. |
| Republic of Korea | : All components are listed or exempted. |
| New Zealand | : All components are listed or exempted. |
| Philippines | : All components are listed or exempted. |
| Switzerland | For information on compliance with this regulation please contact your Afton representative (EHS.CustomerVolumes@AftonChemical.com). |
| Turkey | : For information on compliance with this regulation please contact your Afton representative (EHS.CustomerVolumes@AftonChemical.com). |

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Section 15. Regulatory information

| Taiwan | : All components are listed or exempted. |
|----------------------|--|
| United Kingdom (UK) | : For information on compliance with this regulation please contact your Afton representative (EHS.CustomerVolumes@AftonChemical.com). |
| United States Active | : All components are active or exempted. |

Section 16. Other information

| <u>History</u> | |
|---|--|
| Date of issue/Date of revision | : 11/8/2022 |
| Prepared by | : EHS Department (Tel: +1 804 788 5800) |
| Key to abbreviations | ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations WOE = Weight of Evidence |
| Toxicological and Ecotoxicological Test Data | : CORR_A15 |

Summary(s)

Indicates information that has changed from previously issued version.

Notice to reader

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. Afton makes no representation as to completeness or accuracy. In no event will Afton be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.