# SAFETY DATA SHEET

BG 244 DIESEL FUEL SYSTEM CLEANER

## Section 1. Identification

**GHS product identifier** : BG 244 DIESEL FUEL SYSTEM CLEANER

**Product code** : 244

**Other means of identification** : P244-xxxx, 244, 244B

**Product type** : Liquid.

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

| Identified uses |
| --- |
| Fuel additive. |

**Supplier's details** : BG Products Inc.
740 S. Wichita Street
Wichita, KS, 67213, USA
www.bgprod.com
316-266-8120
msds@bgprod.com

**Emergency telephone number (with hours of operation)** : (800) 424-9300 (CHEMTREC: CCN656479)
24-hour telephone and/or website

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 3
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
GERM CELL MUTAGENICITY - Category 1B
CARCINOGENICITY - Category 1B
TOXIC TO REPRODUCTION - Category 2
ASPIRATION HAZARD - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 2

**GHS label elements**

**Hazard pictograms** :

**Signal word** : Danger

**Hazard statements** : Flammable liquid and vapor.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause genetic defects.
May cause cancer.
Suspected of damaging fertility or the unborn child.
Toxic to aquatic life with long lasting effects.
Prolonged or repeated contact may dry skin and cause irritation.

# Section 2. Hazards identification

**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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

**Response** : Collect spillage. IF exposed or concerned: Get medical advice or attention. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**Storage** : Store locked up.

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

**Supplemental label elements** : Avoid contact with skin and clothing. Wash thoroughly after handling.

**Hazards not otherwise classified** : None known.

# Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : P244-xxxx, 244, 244B

| Ingredient name | % | CAS number |
|---|---|---|
| Solvent naphtha (petroleum), heavy arom. | ≥25 - ≤50 | 64742-94-5 |
| Naphtha (petroleum), hydrotreated heavy | ≥25 - ≤50 | 64742-48-9 |
| 2-ethylhexyl nitrate | ≥10 - ≤25 | 27247-96-7 |
| Oxirane, ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol(tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs | ≤3 | Proprietary |
| naphthalene | ≤3 | 91-20-3 |
| 1,2,4-trimethylbenzene | ≤3 | 95-63-6 |
| Distillates (petroleum), hydrotreated light | ≤3 | 64742-47-8 |
| toluene | ≤0.3 | 108-88-3 |
| n-hexane | ≤0.3 | 110-54-3 |
| Naphtha (petroleum), hydrotreated light | ≤0.3 | 64742-49-0 |
| Ethanamine, 2-(4-polyisobutylenephenoxy) derivs. | ≤0.3 | Proprietary |

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

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

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

# Section 4. First aid measures

## Description of necessary first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**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. 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.

**Skin contact** : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

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

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion** : May be fatal if swallowed and enters airways.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

**Inhalation** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:
irritation
redness
dryness
cracking
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:
nausea or vomiting
reduced fetal weight
increase in fetal deaths
skeletal malformations

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

## Section 4. First aid measures

**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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**See toxicological information (Section 11)**

## Section 5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing media** : Use dry chemical, $CO_2$, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

**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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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

## Section 6. Accidental release measures

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

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

**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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

**Methods and materials for containment and cleaning up**

# Section 6. Accidental release measures

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

## Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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 swallow. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

# Section 8. Exposure controls/personal protection

## Control parameters

### Occupational exposure limits

| Ingredient name | Exposure limits |
|---|---|
| Solvent naphtha (petroleum), heavy arom. | None. |
| Naphtha (petroleum), hydrotreated heavy | None. |
| 2-ethylhexyl nitrate | None. |
| Oxirane, ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol(tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs | None. |
| naphthalene | **ACGIH TLV (United States, 1/2022).**<br>**Absorbed through skin.**<br>TWA: 10 ppm 8 hours.<br>TWA: 52 mg/m³ 8 hours. |

## Section 8. Exposure controls/personal protection

| | |
|---|---|
| | **OSHA PEL 1989 (United States, 3/1989).**<br>TWA: 10 ppm 8 hours.<br>TWA: 50 mg/m³ 8 hours.<br>STEL: 15 ppm 15 minutes.<br>STEL: 75 mg/m³ 15 minutes.<br>**NIOSH REL (United States, 10/2020).**<br>TWA: 10 ppm 10 hours.<br>TWA: 50 mg/m³ 10 hours.<br>STEL: 15 ppm 15 minutes.<br>STEL: 75 mg/m³ 15 minutes.<br>**OSHA PEL (United States, 5/2018).**<br>TWA: 10 ppm 8 hours.<br>TWA: 50 mg/m³ 8 hours.<br>**CAL OSHA PEL (United States, 5/2018).**<br>**Absorbed through skin.**<br>TWA: 0.5 mg/m³ 8 hours.<br>TWA: 0.1 ppm 8 hours. |
| 1,2,4-trimethylbenzene | **OSHA PEL 1989 (United States, 3/1989).**<br>**[Trimethyl benzene]**<br>TWA: 25 ppm 8 hours.<br>TWA: 125 mg/m³ 8 hours.<br>**NIOSH REL (United States, 10/2020).**<br>TWA: 25 ppm 10 hours.<br>TWA: 125 mg/m³ 10 hours.<br>**CAL OSHA PEL (United States, 5/2018).**<br>**[trimethylbenzene, all isomers]**<br>TWA: 125 mg/m³ 8 hours.<br>TWA: 25 ppm 8 hours.<br>**ACGIH TLV (United States, 1/2022).**<br>TWA: 10 ppm 8 hours. |
| Distillates (petroleum), hydrotreated light | **ACGIH TLV (United States, 1/2022).**<br>**[Kerosene as total hydrocarbon vapor]**<br>**Absorbed through skin.**<br>TWA: 200 mg/m³, (as total hydrocarbon vapor) 8 hours. |
| toluene | **OSHA PEL 1989 (United States, 3/1989).**<br>TWA: 100 ppm 8 hours.<br>TWA: 375 mg/m³ 8 hours.<br>STEL: 150 ppm 15 minutes.<br>STEL: 560 mg/m³ 15 minutes.<br>**OSHA PEL Z2 (United States, 2/2013).**<br>TWA: 200 ppm 8 hours.<br>CEIL: 300 ppm<br>AMP: 500 ppm 10 minutes.<br>**NIOSH REL (United States, 10/2020).**<br>TWA: 100 ppm 10 hours.<br>TWA: 375 mg/m³ 10 hours.<br>STEL: 150 ppm 15 minutes.<br>STEL: 560 mg/m³ 15 minutes.<br>**ACGIH TLV (United States, 1/2022).**<br>**Ototoxicant.**<br>TWA: 20 ppm 8 hours.<br>**CAL OSHA PEL (United States, 5/2018).**<br>**Absorbed through skin.**<br>STEL: 560 mg/m³ 15 minutes.<br>STEL: 150 ppm 15 minutes.<br>C: 500 ppm<br>TWA: 37 mg/m³ 8 hours.<br>TWA: 10 ppm 8 hours. |
| n-hexane | **OSHA PEL 1989 (United States, 3/1989).**<br>TWA: 50 ppm 8 hours. |

# Section 8. Exposure controls/personal protection

| | |
|---|---|
| | TWA: 180 mg/m³ 8 hours.<br>**NIOSH REL (United States, 10/2020).**<br>TWA: 50 ppm 10 hours.<br>TWA: 180 mg/m³ 10 hours.<br>**ACGIH TLV (United States, 1/2022).**<br>**Absorbed through skin.**<br>TWA: 50 ppm 8 hours.<br>**OSHA PEL (United States, 5/2018).**<br>TWA: 500 ppm 8 hours.<br>TWA: 1800 mg/m³ 8 hours.<br>**CAL OSHA PEL (United States, 5/2018).**<br>**Absorbed through skin.**<br>TWA: 180 mg/m³ 8 hours.<br>TWA: 50 ppm 8 hours. |
| Naphtha (petroleum), hydrotreated light | None. |
| Ethanamine, 2-(4-polyisobutylenephenoxy) derivs. | None. |

**Biological exposure indices**

| Ingredient name | Exposure indices |
|---|---|
| naphthalene | **ACGIH BEI (United States, 1/2022)**<br>BEI: Nonquantitative: Biological monitoring should be considered for this compound based on the review; however, a specific BEI® could not be determined due to insufficient data., 1-naphthol + 2-naphthol [(sample not specified)]. Sampling time: end of shift. |
| toluene | **ACGIH BEI (United States, 1/2022)**<br>BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift.<br>BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift.<br>BEI: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek. |
| n-hexane | **ACGIH BEI (United States, 1/2022)**<br>BEI: 0.5 mg/l, 2,5-hexanedion [in urine]. Sampling time: end of shift. |

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

# Section 8. Exposure controls/personal protection

## Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

**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.

# Section 9. Physical and chemical properties and safety characteristics

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

## Appearance

**Physical state** : Liquid.

**Color** : Amber.

**Odor** : Solvents [Slight]

**Odor threshold** : Not available.

**pH** : Not available.

**Melting point/freezing point** : Not available.

**Boiling point, initial boiling point, and boiling range** : 166°C (330.8°F) [ASTM D 86]

**Flash point** : Closed cup: 52°C (125.6°F) [ASTM D 7094-04]

**Evaporation rate** : Not available.

**Flammability** : Not available.

**Lower and upper explosion limit/flammability limit** : Not available.

**Vapor pressure** :

| Ingredient name | Vapor Pressure at 20°C | | | Vapor pressure at 50°C | | |
|---|---|---|---|---|---|---|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| n-hexane | 127.51 | 17 | | | | |
| Naphtha (petroleum), hydrotreated light | 42.15 | 5.6 | OECD 104 | 357.48 | 47.7 | OECD 104 |
| toluene | 23.17 | 3.1 | | | | |
| 1,2,4-trimethylbenzene | 2.25 | 0.3 | | | | |
| Naphtha (petroleum), hydrotreated heavy | 0.75 to 2.25 | 0.1 to 0.3 | | | | |
| Distillates (petroleum), hydrotreated light | 0.23 to 0.45 | 0.031 to 0.06 | | | | |
| 2-ethylhexyl nitrate | 0.2 | 0.027 | OECD 104 | | | |
| naphthalene | 0.054 | 0.0072 | OECD 104 | | | |

# Section 9. Physical and chemical properties and safety characteristics

| | | | | | | |
|---|---|---|---|---|---|---|
| Solvent naphtha (petroleum), heavy arom. | 0.02 | 0.0027 | | | | |

**Relative vapor density** : Not available.

**Relative density** : 0.88

**Solubility in water** : Not available.

**Partition coefficient: n-octanol/water** : Not applicable.

**Auto-ignition temperature** :

| Ingredient name | °C | °F | Method |
|---|---|---|---|
| 2-ethylhexyl nitrate | 215 | 419 | NF T 70-504 |
| Solvent naphtha (petroleum), heavy arom. | 220 to 250 | 428 to 482 | ASTM E 659 |
| n-hexane | 225 | 437 | |
| Distillates (petroleum), hydrotreated light | >220 | >428 | |
| Naphtha (petroleum), hydrotreated heavy | 280 to 470 | 536 to 878 | |
| toluene | 480 | 896 | |
| 1,2,4-trimethylbenzene | 500 | 932 | |
| naphthalene | 526 to 587 | 978.8 to 1088.6 | DIN 51794 |

**Decomposition temperature** : Not available.

**Viscosity** : Kinematic (40°C (104°F)): 3.85 $mm^2/s$ (3.85 cSt)

**Flow time (ISO 2431)** : Not available.

**Particle characteristics**

**Median particle size** : Not applicable.

# Section 10. Stability and reactivity

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

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

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

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

**Incompatible materials** : Reactive or incompatible with the following materials:
oxidizing materials

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

**Information on toxicological effects**

**Acute toxicity**

# Section 11. Toxicological information

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| Solvent naphtha (petroleum), heavy arom. | LC50 Inhalation Dusts and mists | Rat | 1.97 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 3160 mg/kg | - |
| | LD50 Oral | Rat | 5000 mg/kg | - |
| Naphtha (petroleum), hydrotreated heavy | LD50 Oral | Rat | >6 g/kg | - |
| 2-ethylhexyl nitrate | LD50 Dermal | Rabbit | 4800 mg/kg | - |
| | LD50 Oral | Rat | 9600 mg/kg | - |
| naphthalene | LD50 Dermal | Rabbit | >20 g/kg | - |
| | LD50 Oral | Rat | 490 mg/kg | - |
| 1,2,4-trimethylbenzene | LC50 Inhalation Vapor | Rat | 18000 mg/m³ | 4 hours |
| | LD50 Oral | Rat | 5 g/kg | - |
| Distillates (petroleum), hydrotreated light | LC50 Inhalation Dusts and mists | Rat | 6.8 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 4000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| toluene | LC50 Inhalation Vapor | Rat | 49 g/m³ | 4 hours |
| | LD50 Dermal | Rabbit | 5000 mg/kg | - |
| | LD50 Oral | Rat | 636 mg/kg | - |
| n-hexane | LC50 Inhalation Gas. | Rat | 48000 ppm | 4 hours |
| | LD50 Oral | Rat | 15840 mg/kg | - |
| Naphtha (petroleum), hydrotreated light | LC50 Inhalation Dusts and mists | Rat | 5.61 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 2000 mg/kg | - |
| | LD50 Oral | Rat | 5000 mg/kg | - |

## Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| Solvent naphtha (petroleum), heavy arom. | Skin - Mild irritant | Rabbit | - | 24 hours 500 uL | - |
| naphthalene | Skin - Mild irritant | Rabbit | - | 495 mg | - |
| | Skin - Severe irritant | Rabbit | - | 24 hours 0.05 Ml | - |
| toluene | Eyes - Mild irritant | Rabbit | - | 0.5 minutes 100 mg | - |
| | Eyes - Mild irritant | Rabbit | - | 870 ug | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 2 mg | - |
| | Skin - Mild irritant | Pig | - | 24 hours 250 uL | - |
| | Skin - Mild irritant | Rabbit | - | 435 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 500 mg | - |
| n-hexane | Eyes - Mild irritant | Rabbit | - | 10 mg | - |

## Sensitization

Not available.

## Mutagenicity

Not available.

## Carcinogenicity

Not available.

## Classification

| Product/ingredient name | OSHA | IARC | NTP |
|---|---|---|---|
| naphthalene | - | 2B | Reasonably anticipated to be a human carcinogen. |
| toluene | - | 3 | - |

## Reproductive toxicity

# Section 11. Toxicological information

Not available.

## Teratogenicity

Not available.

## Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|---|---|---|---|
| 2-ethylhexyl nitrate | Category 3 | - | Respiratory tract irritation |
| 1,2,4-trimethylbenzene | Category 3 | - | Respiratory tract irritation |
| toluene | Category 3 | - | Narcotic effects |
| n-hexane | Category 3 | - | Narcotic effects |

## Specific target organ toxicity (repeated exposure)

| Name | Category | Route of exposure | Target organs |
|---|---|---|---|
| toluene | Category 2 | - | - |
| n-hexane | Category 2 | - | - |

## Aspiration hazard

| Name | Result |
|---|---|
| BG 244 DIESEL FUEL SYSTEM CLEANER | ASPIRATION HAZARD - Category 1 |
| Solvent naphtha (petroleum), heavy arom. | ASPIRATION HAZARD - Category 1 |
| Naphtha (petroleum), hydrotreated heavy | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), hydrotreated light | ASPIRATION HAZARD - Category 1 |
| toluene | ASPIRATION HAZARD - Category 1 |
| n-hexane | ASPIRATION HAZARD - Category 1 |
| Naphtha (petroleum), hydrotreated light | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Not available.

## Potential acute health effects

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

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion** : May be fatal if swallowed and enters airways.

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

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

**Inhalation** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:
irritation
redness
dryness
cracking
reduced fetal weight
increase in fetal deaths
skeletal malformations

# Section 11. Toxicological information

**Ingestion** : Adverse symptoms may include the following:
nausea or vomiting
reduced fetal weight
increase in fetal deaths
skeletal malformations

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

### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : May cause genetic defects.

**Teratogenicity** : Suspected of damaging the unborn child.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : Suspected of damaging fertility.

## Numerical measures of toxicity

### Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|---|---|---|---|---|
| BG 244 DIESEL FUEL SYSTEM CLEANER | 2500 | N/A | N/A | N/A | N/A |
| Solvent naphtha (petroleum), heavy arom. | 5000 | 3160 | N/A | N/A | N/A |
| 2-ethylhexyl nitrate | 500 | 1100 | N/A | 11 | N/A |
| naphthalene | 490 | N/A | N/A | N/A | N/A |
| 1,2,4-trimethylbenzene | 5000 | N/A | N/A | 18 | N/A |
| Distillates (petroleum), hydrotreated light | N/A | 4000 | N/A | N/A | 6.8 |
| toluene | N/A | 5000 | N/A | 49 | N/A |
| n-hexane | 15840 | N/A | 48000 | N/A | N/A |
| Naphtha (petroleum), hydrotreated light | 5000 | N/A | N/A | N/A | 5.61 |

# Section 12. Ecological information

## Toxicity

# Section 12. Ecological information

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| Naphtha (petroleum), hydrotreated heavy | Acute LC50 10 mg/l | Fish | 96 hours |
| | Chronic NOEC 0.68 mg/l | Daphnia | 21 days |
| naphthalene | Acute EC50 1.6 mg/l Fresh water | Daphnia - *Daphnia magna* - Neonate | 48 hours |
| | Acute LC50 2350 µg/l Marine water | Crustaceans - *Palaemonetes pugio* | 48 hours |
| | Acute LC50 213 µg/l Fresh water | Fish - *Melanotaenia fluviatilis* - Larvae | 96 hours |
| | Chronic NOEC 0.5 mg/l Marine water | Crustaceans - *Uca pugnax* - Adult | 3 weeks |
| | Chronic NOEC 1.5 mg/l Fresh water | Fish - *Oreochromis mossambicus* | 60 days |
| 1,2,4-trimethylbenzene | Acute LC50 4910 µg/l Marine water | Crustaceans - *Elasmopus pectenicrus* - Adult | 48 hours |
| | Acute LC50 7720 µg/l Fresh water | Fish - *Pimephales promelas* | 96 hours |
| Distillates (petroleum), hydrotreated light | Acute LC50 2200 µg/l Fresh water | Fish - *Lepomis macrochirus* | 4 days |
| toluene | Acute EC50 >433 ppm Marine water | Algae - *Skeletonema costatum* | 96 hours |
| | Acute EC50 11600 µg/l Fresh water | Crustaceans - *Gammarus pseudolimnaeus* - Adult | 48 hours |
| | Acute EC50 6000 µg/l Fresh water | Daphnia - *Daphnia magna* - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
| | Acute LC50 5500 µg/l Fresh water | Fish - *Oncorhynchus kisutch* - Fry | 96 hours |
| | Chronic NOEC 1 mg/l Fresh water | Daphnia - *Daphnia magna* | 21 days |
| n-hexane | Acute LC50 2500 µg/l Fresh water | Fish - *Pimephales promelas* | 96 hours |

## Persistence and degradability

Not available.

## Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| Solvent naphtha (petroleum), heavy arom. | 2.8 to 6.5 | 99 to 5780 | High |
| Naphtha (petroleum), hydrotreated heavy | - | 10 to 2500 | High |
| 2-ethylhexyl nitrate | 5.24 | - | High |
| naphthalene | 3.4 | 36.5 to 168 | Low |
| 1,2,4-trimethylbenzene | 3.63 | 243 | Low |
| toluene | 2.73 | 90 | Low |
| n-hexane | 4 | 501.187 | High |
| Naphtha (petroleum), hydrotreated light | 2.2 to 5.2 | 10 to 2500 | High |

## Mobility in soil

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

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

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

| Ingredient | CAS # | Status | Reference number |
|---|---|---|---|
| Naphthalene | 91-20-3 | Listed | U165 |

## Section 14. Transport information

| | DOT Classification | TDG Classification | Mexico Classification | ADR/RID | IMDG | IATA |
|---|---|---|---|---|---|---|
| **UN number** | UN1993 | UN1993 | UN1993 | UN1993 | UN1993 | UN1993 |
| **UN proper shipping name** | Flammable liquids, n.o.s. (Solvent naphtha (petroleum), heavy arom., Naphtha (petroleum), hydrotreated heavy) | FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), heavy arom., Naphtha (petroleum), hydrotreated heavy) | LIQUIDO INFLAMABLE, N.E.P. (Solvent naphtha (petroleum), heavy arom., Naphtha (petroleum), hydrotreated heavy) | FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), heavy arom., Naphtha (petroleum), hydrotreated heavy) | FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), heavy arom., Naphtha (petroleum), hydrotreated heavy) | Flammable liquid, n.o.s. (Solvent naphtha (petroleum), heavy arom., Naphtha (petroleum), hydrotreated heavy) |
| **Transport hazard class(es)** | 3  | 3  | 3  | 3  | 3  | 3  |
| **Packing group** | III | III | III | III | III | III |
| **Environmental hazards** | No. | Yes. | Yes. The environmentally hazardous substance mark is not required. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |

**Additional information**

## Section 14. Transport information

**DOT Classification** : This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials in package sizes less than the product reportable quantity.
**Reportable quantity** 5014.4 lbs / 2276.5 kg [683.41 gal / 2587 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
**Limited quantity** Yes.
**Packaging instruction** Exceptions: 150. Non-bulk: 203. Bulk: 242.
**Quantity limitation** Passenger aircraft/rail: 60 L. Cargo aircraft: 220 L.
**Special provisions** B1, B52, IB3, T4, TP1, TP29

**TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark).
The marine pollutant mark is not required when transported by road or rail.
**Explosive Limit and Limited Quantity Index** 5
**Passenger Carrying Road or Rail Index** 60
**Special provisions** 16, 150

**Mexico Classification** : **Special provisions** 223, 274

**ADR/RID** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
**Hazard identification number** 30
**Limited quantity** 5 L
**Special provisions** 274, 601
**Tunnel code** (D/E)

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
**Emergency schedules** F-E, _S-E_
**Special provisions** 223, 274, 955

**IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.
**Quantity limitation** Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344.
**Special provisions** A3

**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** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 8(a) PAIR**: naphthalene
**TSCA 8(a) CDR Exempt/Partial exemption**: Not determined
**Clean Water Act (CWA) 307**: naphthalene; toluene; benzene; ethylbenzene
**Clean Water Act (CWA) 311**: naphthalene; toluene; xylene; benzene; ethylbenzene

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

# Section 15. Regulatory information

**DEA List II Chemicals (Essential Chemicals)** : Not listed

## SARA 302/304

### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

## SARA 311/312

**Classification** : FLAMMABLE LIQUIDS - Category 3
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
GERM CELL MUTAGENICITY - Category 1B
CARCINOGENICITY - Category 1B
TOXIC TO REPRODUCTION - Category 2
ASPIRATION HAZARD - Category 1
HNOC - Defatting irritant

### Composition/information on ingredients

| Name | % | Classification |
|---|---|---|
| Solvent naphtha (petroleum), heavy arom. | ≥25 - ≤50 | ASPIRATION HAZARD - Category 1 |
| Naphtha (petroleum), hydrotreated heavy | ≥25 - ≤50 | GERM CELL MUTAGENICITY - Category 1B<br>CARCINOGENICITY - Category 1B<br>ASPIRATION HAZARD - Category 1<br>HNOC - Defatting irritant |
| 2-ethylhexyl nitrate | ≥10 - ≤25 | OXIDIZING LIQUIDS - Category 2<br>ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (dermal) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| Oxirane, ethyl-, homopolymer, 2-aminobutyl ether, ether with mixed distn. residues from manuf. of phenol(tetrapropenyl) derivs. and phenol (tetrapropenyl) derivs | Proprietary | SKIN SENSITIZATION - Category 1 |
| naphthalene | ≤3 | ACUTE TOXICITY (oral) - Category 4<br>CARCINOGENICITY - Category 2 |
| 1,2,4-trimethylbenzene | ≤3 | FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| Distillates (petroleum), hydrotreated light | ≤3 | ASPIRATION HAZARD - Category 1 |
| toluene | ≤0.3 | FLAMMABLE LIQUIDS - Category 2<br>SKIN IRRITATION - Category 2<br>TOXIC TO REPRODUCTION - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2<br>ASPIRATION HAZARD - Category 1 |
| n-hexane | ≤0.3 | FLAMMABLE LIQUIDS - Category 2<br>SKIN IRRITATION - Category 2<br>TOXIC TO REPRODUCTION - Category 2 |

# Section 15. Regulatory information

| | | |
|---|---|---|
| Naphtha (petroleum), hydrotreated light | ≤0.3 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2<br>ASPIRATION HAZARD - Category 1<br>GERM CELL MUTAGENICITY - Category 1B<br>CARCINOGENICITY - Category 1B<br>ASPIRATION HAZARD - Category 1 |
| Ethanamine, 2-(4-polyisobutylenephenoxy) derivs. | Proprietary | SKIN SENSITIZATION - Category 1 |

## SARA 313

| | Product name | CAS number | % |
|---|---|---|---|
| **Form R - Reporting requirements** | naphthalene<br>1,2,4-trimethylbenzene | 91-20-3<br>95-63-6 | ≤3<br>≤3 |
| **Supplier notification** | naphthalene<br>1,2,4-trimethylbenzene | 91-20-3<br>95-63-6 | ≤3<br>≤3 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

## State regulations

**Massachusetts** : The following components are listed: NAPHTHALENE; PSEUDOCUMENE

**New York** : The following components are listed: Naphthalene

**New Jersey** : The following components are listed: NAPHTHALENE; PSEUDOCUMENE; TOLUENE

**Pennsylvania** : The following components are listed: NAPHTHALENE; PSEUDOCUMENE

## California Prop. 65

⚠ **WARNING**: This product can expose you to chemicals including 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 Naphthalene, cumene and Ethylbenzene, which are known to the State of California to cause cancer, and Toluene and n-hexane, which are 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 | No significant risk level | Maximum acceptable dosage level |
|---|---|---|
| Naphthalene | Yes. | - |
| Toluene | - | Yes. |
| n-hexane | - | Yes. |
| cumene | - | - |
| Benzene | Yes. | Yes. |
| Ethylbenzene | Yes. | - |

## International regulations

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

Not listed.

### Montreal Protocol

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

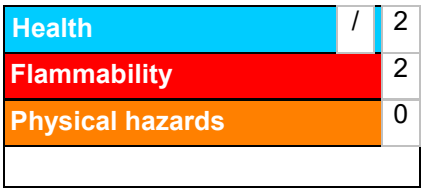
# Section 15. Regulatory information

## Inventory list

| | | |
|---|---|---|
| **Australia** | : | All components are listed or exempted. |
| **Canada** | : | All components are listed or exempted. |
| **China** | : | All components are listed or exempted. |
| **Eurasian Economic Union** | : | **Russian Federation inventory**: Not determined. |
| **Japan** | : | **Japan inventory (CSCL)**: Not determined.<br>**Japan inventory (ISHL)**: Not determined. |
| **New Zealand** | : | All components are listed or exempted. |
| **Philippines** | : | All components are listed or exempted. |
| **Republic of Korea** | : | Not determined. |
| **Taiwan** | : | Not determined. |
| **Thailand** | : | Not determined. |
| **Turkey** | : | Not determined. |
| **United States** | : | All components are active or exempted. |
| **Viet Nam** | : | Not determined. |

# Section 16. Other information

## Hazardous Material Information System (U.S.A.)




**Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.**

**The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.**

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


## Procedure used to derive the classification

| Classification | Justification |
|---|---|
| FLAMMABLE LIQUIDS - Category 3 | On basis of test data |
| SKIN IRRITATION - Category 2 | Calculation method |
| EYE IRRITATION - Category 2A | Calculation method |
| SKIN SENSITIZATION - Category 1 | Calculation method |
| GERM CELL MUTAGENICITY - Category 1B | Calculation method |
| CARCINOGENICITY - Category 1B | Calculation method |
| TOXIC TO REPRODUCTION - Category 2 | Calculation method |
| ASPIRATION HAZARD - Category 1 | On basis of test data |
| AQUATIC HAZARD (LONG-TERM) - Category 2 | Calculation method |

## History

| | | |
|---|---|---|
| **Date of printing** | : | 3/6/2024 |
| **Date of issue/Date of revision** | : | 3/6/2024 |
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# Section 16. Other information

**Version** : 4

**Formulation Version number** : 10

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

**References** : Not available.

**Indicates information that has changed from previously issued version.**

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