

# SAFETY DATA SHEET

**MURPHY**  
OIL USA, INC.

200 Peach Street (71730)  
P O Box 7000  
El Dorado, AR 71731-7000  
(870) 862-6411

## Gasoline (All Grades)

### Section 1. Identification

**GHS product identifier** : Gasoline (All Grades)  
**Chemical name** : Mixture (C4 to C12 Hydrocarbon)  
**Other means of identification** : Motor Gasoline, Petrol, Gas  
**Product type** : Liquid.

**Identified uses**

Motor Fuel.

**Supplier's details** : Murphy Oil USA, Inc.  
 200 Peach Street  
 El Dorado, AR 71730  
 Tel: +1-870-875-7600  
 Fax: 866-933-1563  
 Website: <http://www.murphyusa.com>

**Emergency telephone number (with hours of operation)** : CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887 # CCN15145  
 24 hours/day, 7 days/week

### 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 1  
 SKIN CORROSION/IRRITATION - Category 2  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A  
 GERM CELL MUTAGENICITY - Category 1B  
 CARCINOGENICITY - Category 1A  
 TOXIC TO REPRODUCTION (Fertility) - Category 2  
 TOXIC TO REPRODUCTION (Unborn child) - Category 2  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1  
 ASPIRATION HAZARD - Category 1  
 AQUATIC HAZARD (ACUTE) - Category 2  
 AQUATIC HAZARD (LONG-TERM) - Category 2

**GHS label elements**

**Hazard pictograms**



**Signal word** : Danger

## Section 2. Hazards identification

|   |  |
|---|--|
| <b>Hazard statements</b>                | : Extremely flammable liquid and vapor.<br>Causes serious eye irritation.<br>Causes skin irritation.<br>May cause genetic defects.<br>May cause cancer.<br>Suspected of damaging fertility or the unborn child.<br>May be fatal if swallowed and enters airways.<br>Causes damage to organs through prolonged or repeated exposure.<br>Toxic to aquatic life with long lasting effects.  |
| <b>Precautionary statements</b>         |  |
| <b>Prevention</b>                       | : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. High-pressure injection under skin may cause serious damage. Prolonged and repeated exposure to benzene may cause serious injury to blood forming organs and is associated with anemia and to the later development of acute myelogenous leukemia (AML). |
| <b>Response</b>                         | : Collect spillage. Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation occurs: Get medical 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 attention.  |
| <b>Storage</b>                          | : Store locked up. Store in a well-ventilated place. Keep cool.  |
| <b>Disposal</b>                         | : Dispose of contents and container in accordance with all local, regional, national and international regulations.  |
| <b>Hazards not otherwise classified</b> | : None known.  |

## Section 3. Composition/information on ingredients

|                                      |   |
|--------------------------------------|---|
| <b>Substance/mixture</b>             | : Mixture   |
| <b>Chemical name</b>                 | : Mixture (C4 to C12 Hydrocarbon)   |
| <b>Other means of identification</b> | : Motor Gasoline, Petrol, Gas   |
| <b>CAS number/other identifiers</b>  |   |
| <b>CAS number</b>                    | : Not applicable.   |
| <b>Product code</b>                  | : 501, 502, 503, 504, 505, 506, 507, 508, 509, 556, 557, 558, 561, 562, 563, 565, 566, 567, 568, 571, 572, 573, 575, 576, 577, 578, 579, 581, 582, 583, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 665, 666, 667, 668, 687, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 728, 729, 730, 732, 733, 734, 735, 757, 758, 777, 778, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 806, 809, 810, |

## Section 3. Composition/information on ingredients

| Ingredient name        | %        | CAS number |
|------------------------|----------|------------|
| Gasoline, natural      | 89 - 100 | 8006-61-9  |
| Contains:              |          |            |
| Ethyl Alcohol          | <11      | 64-17-5    |
| Xylene                 | <5       | 1330-20-7  |
| Toluene                | <5       | 108-88-3   |
| Benzene                | <5       | 71-43-2    |
| Ethylbenzene           | <5       | 100-41-4   |
| n-Hexane               | <5       | 110-54-3   |
| Naphthalene            | <5       | 91-20-3    |
| 1,2,4-Trimethylbenzene | <5       | 95-63-6    |
| Trimethylbenzene       | <5       | 25551-13-7 |

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

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

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

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : 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 20 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.
- Skin contact** : Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. 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 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. 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.

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

#### Potential acute health effects

- Eye contact** : May cause mild, short-lasting discomfort to eyes.
- Inhalation** : Minimally toxic. Elevated temperatures or mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.
- Skin contact** : Causes skin irritation.
- Ingestion** : May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

#### Over-exposure signs/symptoms

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

## Section 4. First aid measures

- 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  
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
- Medical conditions aggravated by overexposure** : For the product itself: Laboratory animal studies have shown that prolonged and repeated inhalation exposure to light hydrocarbon vapors in the same boiling range as this product can produce adverse kidney effects in male rats. However, these effects were not observed in similar studies with female rats, male and female mice, or in limited studies with other animal species. Additionally, in a number of human studies, there was no clinical evidence of such effects at normal occupational levels. In 1991, The U.S. EPA determined that the male rat kidney is not useful for assessing human risk. Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema. Gasoline unleaded: Caused cancer in animal tests. Chronic inhalation studies resulted in liver tumors in female mice and kidney tumors in male rats. Neither result considered significant for human health risk assessment by the United States EPA and others. Did not cause mutations In Vitro or In Vivo. Negative in inhalation developmental studies and reproductive tox studies. Inhalation of high concentrations in animals resulted in reversible central nervous system depression, but no persistent toxic effect on the nervous system. Non-sensitizing in test animals. Caused nerve damage in humans from abusive use (sniffing).

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet or water-based fire extinguishers.

**Specific hazards arising from the chemical** : Extremely flammable liquid and vapor. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. 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

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

**Spill** : Use spark-proof tools and explosion-proof equipment. 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** : Avoid breathing vapor or mist. Avoid contact with skin. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Potentially toxic/irritating fumes/vapors may be evolved from heated or agitated material. Do not siphon by mouth. Use only with adequate ventilation. Use proper bonding and/or grounding procedures. Do not use as a cleaning solvent or other non-motor fuel uses. For use as a motor fuel only. It is dangerous and/or unlawful to put fuel into unapproved containers. Do not fill container while it is in or on a vehicle. Static electricity may ignite vapors and cause fire. Place container on ground when filling and keep nozzle in contact with container. Do not use electronic devices (including but not limited to cellular phones, computers, calculators, pagers or other electronic devices, etc.) in or around any fueling operation or storage area unless the devices are certified intrinsically safe by an approved national testing agency and to the safety standards required by national and/or local laws and regulations. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source).
- 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. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.
- 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. Ample fire water supply should be available. A fixed sprinkler/deluge system is recommended. Handle containers with care. Open slowly in order to control possible pressure release. Outside or detached storage preferred. Storage containers should be grounded and bonded. Drums must be grounded and bonded and equipped with self-closing valves, pressure vacuum bungs and flame arresters.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name   | Exposure limits   |
|-------------------|---|
| Gasoline, natural | <b>OSHA PEL 1989 (United States, 3/1989).</b><br>STEL: 1500 mg/m <sup>3</sup> 15 minutes.<br>STEL: 500 ppm 15 minutes.<br>TWA: 900 mg/m <sup>3</sup> 8 hours.<br>TWA: 300 ppm 8 hours.  |
| Ethyl Alcohol     | <b>ACGIH TLV (United States, 6/2013).</b><br>STEL: 1000 ppm 15 minutes.<br><b>NIOSH REL (United States, 4/2013).</b><br>TWA: 1900 mg/m <sup>3</sup> 10 hours.<br>TWA: 1000 ppm 10 hours.  |
| Xylene            | <b>OSHA PEL (United States, 2/2013).</b><br>TWA: 1900 mg/m <sup>3</sup> 8 hours.<br>TWA: 1000 ppm 8 hours.<br><b>ACGIH TLV (United States, 6/2013).</b><br>STEL: 651 mg/m <sup>3</sup> 15 minutes.<br>STEL: 150 ppm 15 minutes.<br>TWA: 434 mg/m <sup>3</sup> 8 hours.<br>TWA: 100 ppm 8 hours.<br><b>OSHA PEL (United States, 2/2013).</b> |

## Section 8. Exposure controls/personal protection

Toluene

TWA: 100 ppm 8 hours.  
TWA: 435 mg/m<sup>3</sup> 8 hours.  
**NIOSH REL (United States, 4/2013).**  
STEL: 560 mg/m<sup>3</sup> 15 minutes.  
STEL: 150 ppm 15 minutes.  
TWA: 375 mg/m<sup>3</sup> 10 hours.  
TWA: 100 ppm 10 hours.  
**OSHA PEL Z2 (United States, 2/2013).**  
AMP: 500 ppm 10 minutes.  
CEIL: 300 ppm  
TWA: 200 ppm 8 hours.  
**ACGIH TLV (United States, 6/2013).**  
TWA: 20 ppm 8 hours.

Benzene

**ACGIH TLV (United States, 6/2013). Absorbed through skin.**  
STEL: 8 mg/m<sup>3</sup> 15 minutes.  
STEL: 2.5 ppm 15 minutes.  
TWA: 1.6 mg/m<sup>3</sup> 8 hours.  
TWA: 0.5 ppm 8 hours.  
**NIOSH REL (United States, 4/2013).**  
STEL: 1 ppm 15 minutes.  
TWA: 0.1 ppm 10 hours.  
**OSHA PEL (United States, 2/2013).**  
STEL: 5 ppm 15 minutes.  
TWA: 1 ppm 8 hours.  
**OSHA PEL Z2 (United States, 2/2013).**  
AMP: 50 ppm 10 minutes.  
CEIL: 25 ppm  
TWA: 10 ppm 8 hours.

Ethylbenzene

**ACGIH TLV (United States, 6/2013).**  
TWA: 20 ppm 8 hours.  
**NIOSH REL (United States, 4/2013).**  
STEL: 545 mg/m<sup>3</sup> 15 minutes.  
STEL: 125 ppm 15 minutes.  
TWA: 435 mg/m<sup>3</sup> 10 hours.  
TWA: 100 ppm 10 hours.  
**OSHA PEL (United States, 2/2013).**  
TWA: 435 mg/m<sup>3</sup> 8 hours.  
TWA: 100 ppm 8 hours.

n-Hexane

**ACGIH TLV (United States, 6/2013). Absorbed through skin.**  
TWA: 50 ppm 8 hours.  
**NIOSH REL (United States, 4/2013).**  
TWA: 180 mg/m<sup>3</sup> 10 hours.  
TWA: 50 ppm 10 hours.  
**OSHA PEL (United States, 2/2013).**  
TWA: 1800 mg/m<sup>3</sup> 8 hours.  
TWA: 500 ppm 8 hours.

Naphthalene

**ACGIH TLV (United States, 6/2013). Absorbed through skin.**  
STEL: 79 mg/m<sup>3</sup> 15 minutes.  
STEL: 15 ppm 15 minutes.  
TWA: 52 mg/m<sup>3</sup> 8 hours.  
TWA: 10 ppm 8 hours.  
**NIOSH REL (United States, 4/2013).**  
STEL: 75 mg/m<sup>3</sup> 15 minutes.  
STEL: 15 ppm 15 minutes.  
TWA: 50 mg/m<sup>3</sup> 10 hours.  
TWA: 10 ppm 10 hours.  
**OSHA PEL (United States, 2/2013).**  
TWA: 50 mg/m<sup>3</sup> 8 hours.  
TWA: 10 ppm 8 hours.

1,2,4-Trimethylbenzene

**ACGIH TLV (United States, 6/2013).**  
TWA: 123 mg/m<sup>3</sup> 8 hours.  
TWA: 25 ppm 8 hours.  
**NIOSH REL (United States, 4/2013).**  
TWA: 125 mg/m<sup>3</sup> 10 hours.  
TWA: 25 ppm 10 hours.  
**OSHA PEL 1989 (United States, 3/1989).**  
TWA: 25 ppm 8 hours.  
TWA: 125 mg/m<sup>3</sup> 8 hours.

## Section 8. Exposure controls/personal protection

Trimethylbenzene

ACGIH TLV (United States, 6/2013).

TWA: 123 mg/m<sup>3</sup> 8 hours.

TWA: 25 ppm 8 hours.

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

TWA: 25 ppm 8 hours.

TWA: 125 mg/m<sup>3</sup> 8 hours.

### Appropriate engineering controls

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

### Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### Individual protection measures

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

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

#### Skin protection

##### Hand protection

: Use gloves appropriate for work or task being performed. Recommended: If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves. If contact with forearms is likely, wear gauntlet style gloves.

##### 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. Recommended: If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

##### 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

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

## Section 9. Physical and chemical properties

### Appearance

#### Physical state

: Liquid.

#### Color

: Clear (May Be Dyed).

#### Odor

: Petroleum/Solvent.

#### Odor threshold

: Not available.

#### pH

: Not applicable.

#### Melting point

: Not available.

#### Boiling point

: 20°C (68°F)



## Section 9. Physical and chemical properties

|   |   |
|---|---|
| <b>Flash point</b>                                  | : Closed cup: <math>-40^{\circ}\text{C}</math> (<math>-40^{\circ}\text{F}</math>) [Pensky-Martens.] |
| <b>Evaporation rate</b>                             | : >10 (Butyl acetate = 1)   |
| <b>Flammability (solid, gas)</b>                    | : Not available.  |
| <b>Lower and upper explosive (flammable) limits</b> | : Lower: 1.4%<br>Upper: 7.5%  |
| <b>Vapor pressure</b>                               | : 7 psi to 13.5 psi, Reid Vapor Pressure (RVP) [depending on the time of year]                      |
| <b>Vapor density</b>                                | : 3 [Air = 1]   |
| <b>Relative density</b>                             | : 0.72  |
| <b>Solubility</b>                                   | : Negligible.   |
| <b>Partition coefficient: n-octanol/water</b>       | : Not available.  |
| <b>Auto-ignition temperature</b>                    | : >254°C (>489.2°F)   |
| <b>Decomposition temperature</b>                    | : Not available.  |
| <b>Viscosity</b>                                    | : Kinematic (40°C (104°F)): <math><0.01\text{ cm}^2/\text{s}</math> (<math><1\text{ cSt}</math>)    |

## Section 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.   |
| <b>Chemical stability</b>                 | : The product is stable.   |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.  |
| <b>Conditions to avoid</b>                | : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. |
| <b>Incompatible materials</b>             | : Halogens, Strong Acids, Alkalies, Strong oxidizers.  |
| <b>Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.   |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result                | Species | Dose                     | Exposure |
|-------------------------|-----------------------|---------|--------------------------|----------|
| Ethyl Alcohol           | LC50 Inhalation Vapor | Rat     | 124700 mg/m <sup>3</sup> | 4 hours  |
|                         | LD50 Oral             | Rat     | 7 g/kg                   | -        |
| Xylene                  | LC50 Inhalation Gas.  | Rat     | 5000 ppm                 | 4 hours  |
|                         | LD50 Oral             | Rat     | 4300 mg/kg               | -        |
| Toluene                 | LC50 Inhalation Vapor | Rat     | 49 g/m <sup>3</sup>      | 4 hours  |
|                         | LD50 Oral             | Rat     | 636 mg/kg                | -        |
| Benzene                 | LD50 Oral             | Rat     | 930 mg/kg                | -        |
| Ethylbenzene            | LD50 Dermal           | Rabbit  | >5000 mg/kg              | -        |
|                         | LD50 Oral             | Rat     | 3500 mg/kg               | -        |
| n-Hexane                | LC50 Inhalation Gas.  | Rat     | 48000 ppm                | 4 hours  |
|                         | LD50 Oral             | Rat     | 15840 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/m <sup>3</sup>  | 4 hours  |
|                         | LD50 Oral             | Rat     | 5 g/kg                   | -        |

## Section 11. Toxicological information

|                  |           |     |            |   |
|------------------|-----------|-----|------------|---|
| Trimethylbenzene | LD50 Oral | Rat | 8970 mg/kg | - |
|------------------|-----------|-----|------------|---|

### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure            | Observation |
|-------------------------|--------------------------|---------|-------|---------------------|-------------|
| Gasoline, natural       | Eyes - Mild irritant     | Human   | -     | 8 hours 140 ppm     | -           |
| Ethyl Alcohol           | Eyes - Moderate irritant | Man     | -     | 1 hours 500 ppm     | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 100 µL              | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 mg      | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500 mg     | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 0.06 minutes 100 mg | -           |
| Xylene                  | Eyes - Severe irritant   | Rabbit  | -     | 500 mg              | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 400 mg              | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 87 mg               | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 5 mg       | -           |
|                         | Skin - Mild irritant     | Rat     | -     | 8 hours 60 µL       | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg     | -           |
| Toluene                 | Skin - Moderate irritant | Rabbit  | -     | 100%                | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 0.5 minutes 100 mg  | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 mg      | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 870 µg              | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2 mg       | -           |
|                         | Skin - Mild irritant     | Pig     | -     | 24 hours 250 µL     | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 435 mg              | -           |
| Benzene                 | Skin - Moderate irritant | Rabbit  | -     | 500 mg              | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 88 mg               | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 mg      | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2 mg       | -           |
|                         | Skin - Mild irritant     | Rat     | -     | 8 hours 60 µL       | -           |
| Ethylbenzene            | Skin - Mild irritant     | Rabbit  | -     | 24 hours 15 mg      | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 500 mg              | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 15 mg      | -           |
| n-Hexane                | Eyes - Mild irritant     | Rabbit  | -     | 10 milligrams       | -           |
| Naphthalene             | Skin - Mild irritant     | Rabbit  | -     | 495 mg              | -           |
|                         | Skin - Severe irritant   | Rabbit  | -     | 24 hours 0.05 mL    | -           |
| Trimethylbenzene        | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500 mg     | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg     | -           |

### Sensitization

There is no data available.

### Carcinogenicity

#### Classification

| Product/ingredient name | OSHA | IARC | NTP  | ACGIH | EPA | NIOSH |
|-------------------------|------|------|--|-------|-----|-------|
| Gasoline, natural       | -    | 2B   | -  | -     | -   | +     |
| Xylene                  | -    | 3    | -  | A4    | -   | -     |
| Toluene                 | -    | 3    | -  | A4    | -   | -     |
| Benzene                 | +    | 1    | Known to be a human carcinogen.                  | A1    | -   | +     |
| Ethylbenzene            | -    | 2B   | -  | A3    | -   | None. |
| Naphthalene             | -    | 2B   | Reasonably anticipated to be a human carcinogen. | A4    | -   | None. |

### Specific target organ toxicity (single exposure)

| Name                   | Category   | Route of exposure | Target organs                |
|------------------------|------------|-------------------|------------------------------|
| Ethyl Alcohol          | Category 3 | Not applicable.   | Narcotic effects             |
| Toluene                | Category 3 | Not applicable.   | Narcotic effects             |
| n-Hexane               | Category 3 | Not applicable.   | Narcotic effects             |
| 1,2,4-Trimethylbenzene | Category 3 | Not applicable.   | Respiratory tract irritation |

### Specific target organ toxicity (repeated exposure)

## Section 11. Toxicological information

| Name                           | Category                               | Route of exposure                                  | Target organs                                      |
|--------------------------------|--|--|--|
| Toluene<br>Benzene<br>n-Hexane | Category 2<br>Category 1<br>Category 2 | Not determined<br>Not determined<br>Not determined | Not determined<br>Not determined<br>Not determined |

### Aspiration hazard

| Name  | Result   |
|---|--|
| Gasoline, natural<br>Toluene<br>Benzene<br>n-Hexane | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Dermal contact. Eye contact. Inhalation. Ingestion.

### Potential acute health effects

- Eye contact** : May cause mild, short-lasting discomfort to eyes.
- Inhalation** : Minimally toxic. Elevated temperatures or mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.
- Skin contact** : Causes skin irritation.
- Ingestion** : May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

### 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  
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

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

#### Short term exposure

**Potential immediate effects** : No known significant effects or critical hazards.

**Potential delayed effects** : No known significant effects or critical hazards.

#### Long term exposure

**Potential immediate effects** : No known significant effects or critical hazards.

## Section 11. Toxicological information

**Potential delayed effects** : No known significant effects or critical hazards.

### Potential chronic health effects

- General** : Causes damage to organs through prolonged or repeated exposure.
- 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

| Route               | ATE value     |
|---------------------|---------------|
| Oral                | 4244.9 mg/kg  |
| Dermal              | 11111.1 mg/kg |
| Inhalation (gases)  | 101010.1 ppm  |
| Inhalation (vapors) | 137.9 mg/L    |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                                    | Species   | Exposure |
|-------------------------|---|---|----------|
| Gasoline, natural       | Acute EC50 17.5 mg/L Marine water         | Crustaceans - Artemia sp. - Nauplii                                 | 48 hours |
| Ethyl Alcohol           | Acute EC50 1.5 mg/L Marine water          | Daphnia - Daphnia magna - Neonate                                   | 48 hours |
|                         | Acute EC50 17.921 mg/L Marine water       | Algae - Ulva pertusa  | 96 hours |
|                         | Acute EC50 2000 µg/l Fresh water          | Daphnia - Daphnia magna   | 48 hours |
|                         | Acute LC50 25500 µg/l Marine water        | Crustaceans - Artemia franchiscana - Larvae                         | 48 hours |
| Xylene                  | Acute LC50 42000 µg/l Fresh water         | Fish - Oncorhynchus mykiss  | 4 days   |
|                         | Chronic NOEC 4.995 mg/L Marine water      | Algae - Ulva pertusa  | 96 hours |
|                         | Chronic NOEC 0.375 ul/L Fresh water       | Fish - Gambusia holbrooki - Larvae                                  | 12 weeks |
|                         | Acute IC50 10 mg/L                        | Algae   | 72 hours |
| Toluene                 | Acute LC50 8500 µg/l Marine water         | Crustaceans - Palaemonetes pugio                                    | 48 hours |
|                         | Acute LC50 13400 µg/l Fresh water         | Fish - Pimephales promelas  | 96 hours |
|                         | Acute EC50 433 ppm Marine water           | Algae - Skeletonema costatum  | 96 hours |
|                         | Acute EC50 12500 µg/l Fresh water         | Algae - Pseudokirchneriella subcapitata                             | 72 hours |
|                         | Acute EC50 11600 µg/l Fresh water         | Crustaceans - Gammarus pseudolimnaeus - Adult                       | 48 hours |
| Benzene                 | 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 500000 µg/l Fresh water      | Algae - Pseudokirchneriella subcapitata                             | 96 hours |
|                         | Chronic NOEC 1000 µg/l Fresh water        | Daphnia - Daphnia magna   | 21 days  |
|                         | Acute EC50 29000 µg/l Fresh water         | Algae - Pseudokirchneriella subcapitata                             | 72 hours |
|                         | Acute EC50 1360000 µg/l Fresh water       | Algae - Scenedesmus abundans  | 96 hours |
|                         | Acute EC50 9230 µg/l Fresh water          | Daphnia - Daphnia magna - Neonate                                   | 48 hours |
|                         | Acute LC50 21000 µg/l Marine water        | Crustaceans - Artemia salina - Nauplii                              | 48 hours |
|                         | Acute LC50 5.28 ul/L Fresh water          | Fish - Oncorhynchus gorboscha - Fry                                 | 96 hours |
|                         | Chronic NOEC 1.5 to 5.4 ul/L Marine water | Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling) | 4 weeks  |
| Ethylbenzene            | Acute EC50 4600 µg/l Fresh water          | Algae - Pseudokirchneriella subcapitata                             | 72 hours |
|                         | Acute EC50 3600 µg/l Fresh water          | Algae - Pseudokirchneriella subcapitata                             | 96 hours |
|                         | Acute EC50 2970 µg/l Fresh water          | Daphnia - Daphnia magna - Neonate                                   | 48 hours |
|                         | Acute LC50 5200 µg/l Marine water         | Crustaceans - Americamysis bahia                                    | 48 hours |
|                         | Acute LC50 4200 µg/l Fresh water          | Fish - Oncorhynchus mykiss  | 96 hours |
|                         | Chronic NOEC 1000 µg/l Fresh water        | Algae - Pseudokirchneriella subcapitata                             | 96 hours |
| n-Hexane                | Acute LC50 113000 µg/l Fresh water        | Fish - Oreochromis mossambicus                                      | 96 hours |
| Naphthalene             | Acute EC50 1600 µg/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 |

## Section 12. Ecological information

|                        |  |   |                      |
|------------------------|--|---|----------------------|
| 1,2,4-Trimethylbenzene | Chronic NOEC 0.67 ppm Fresh water<br>Acute LC50 4910 µg/l Marine water | Fish - Oncorhynchus kisutch<br>Crustaceans - Elasmopus pecteniscrus - Adult | 40 days<br>48 hours  |
| Trimethylbenzene       | Acute LC50 22.4 mg/L Fresh water<br>Acute LC50 5600 µg/l Marine water  | Fish - Tilapia zillii<br>Crustaceans - Palaemonetes pugio                   | 96 hours<br>48 hours |

### Persistence and degradability

There is no data available.

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF         | Potential |
|-------------------------|--------------------|-------------|-----------|
| Gasoline, natural       | -                  | 10 to 2500  | high      |
| Ethyl Alcohol           | -0.32              | -           | low       |
| Xylene                  | 3.12               | 8.1 to 25.9 | low       |
| Toluene                 | 2.73               | 90          | low       |
| Benzene                 | 2.13               | 11          | low       |
| Ethylbenzene            | 3.6                | -           | low       |
| n-Hexane                | 4                  | 501.187     | high      |
| Naphthalene             | 3.4                | 36.5 to 168 | low       |
| 1,2,4-Trimethylbenzene  | 3.63               | 243         | low       |
| Trimethylbenzene        | 3.4 to 3.8         | -           | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : There is no data available.

### Other adverse effects

#### **Mobility**

More volatile component -- Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

Less volatile component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

#### **Persistence/degradability**

Majority of components -- Expected to be inherently biodegradable.

More volatile component -- Expected to degrade rapidly in air.

#### **Bioaccumulative potential**

Majority of components -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.





## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

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

| Ingredient  | CAS #     | Status | Reference number |
|-------------|-----------|--------|------------------|
| Xylene      | 1330-20-7 | Listed | U239             |
| Toluene     | 108-88-3  | Listed | U220             |
| Benzene     | 71-43-2   | Listed | U019             |
| Naphthalene | 91-20-3   | Listed | U165             |

## Section 14. Transport information

|                            | DOT Classification  | IMDG   | IATA   |
|----------------------------|---|--|--|
| UN number                  | UN1203  | UN1203   | UN1203   |
| UN proper shipping name    | GASOLINE  | GASOLINE   | GASOLINE   |
| Transport hazard class(es) | 3<br>  | 3<br>  | 3<br>                 |
| Packing group              | II  | II   | II   |
| Environmental hazards      | No.   | Yes.   | No.  |
| Additional information     | The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes.<br><br><b>Reportable quantity</b><br>202.02 lbs / 91.717 kg [33.652 gal / 127.38 L]<br>Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.<br><br><b>Emergency schedules (EmS)</b><br>F-E, S-E                                | The environmentally hazardous substance mark may appear if required by other transportation regulations. |

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**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 Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) PAIR: Naphthalene  
TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
United States inventory (TSCA 8b): All components are listed or exempted.  
Clean Water Act (CWA) 307: Toluene; Benzene; Ethylbenzene; Naphthalene  
Clean Water Act (CWA) 311: Xylene; Toluene; Benzene; Ethylbenzene; Naphthalene

**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

## Section 15. Regulatory information

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

**DEA List II Chemicals (Essential Chemicals)** : Listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Fire hazard  
Immediate (acute) health hazard  
Delayed (chronic) health hazard

#### Composition/information on ingredients

| Name                   | %        | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|------------------------|----------|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| Gasoline, natural      | 89 - 100 | No.         | No.                        | No.      | No.                             | Yes.                            |
| Ethyl Alcohol          | <11      | Yes.        | No.                        | No.      | Yes.                            | No.                             |
| Xylene                 | <5       | Yes.        | No.                        | No.      | Yes.                            | No.                             |
| Toluene                | <5       | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |
| Benzene                | <5       | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |
| Ethylbenzene           | <5       | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |
| n-Hexane               | <5       | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |
| Naphthalene            | <5       | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |
| 1,2,4-Trimethylbenzene | <5       | Yes.        | No.                        | No.      | Yes.                            | No.                             |
| Trimethylbenzene       | <5       | Yes.        | No.                        | No.      | Yes.                            | No.                             |

### SARA 313

|  | Product name           | CAS number | %  |
|--|------------------------|------------|----|
| <b>Form R - Reporting requirements</b> | Xylene                 | 1330-20-7  | <5 |
|  | Toluene                | 108-88-3   | <5 |
|  | Benzene                | 71-43-2    | <5 |
|  | Ethylbenzene           | 100-41-4   | <5 |
|  | n-Hexane               | 110-54-3   | <5 |
|  | Naphthalene            | 91-20-3    | <5 |
|  | 1,2,4-Trimethylbenzene | 95-63-6    | <5 |
| <b>Supplier notification</b>           | Xylene                 | 1330-20-7  | <5 |
|  | Toluene                | 108-88-3   | <5 |
|  | Benzene                | 71-43-2    | <5 |
|  | Ethylbenzene           | 100-41-4   | <5 |
|  | n-Hexane               | 110-54-3   | <5 |
|  | Naphthalene            | 91-20-3    | <5 |
|  | 1,2,4-Trimethylbenzene | 95-63-6    | <5 |

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: Gasoline, natural; Ethyl Alcohol; Xylene; Toluene; Benzene; Ethylbenzene; n-Hexane; Naphthalene; 1,2,4-Trimethylbenzene; Trimethylbenzene

**New York** : The following components are listed: Xylene; Toluene; Benzene; Ethylbenzene; n-Hexane; Naphthalene

**New Jersey** : The following components are listed: Gasoline, natural; Ethyl Alcohol; Xylene; Toluene; Benzene; Ethylbenzene; n-Hexane; Naphthalene; 1,2,4-Trimethylbenzene; Trimethylbenzene

## Section 15. Regulatory information

**Pennsylvania** : The following components are listed: Ethyl Alcohol; Xylene; Toluene; Benzene; Ethylbenzene; n-Hexane; Naphthalene; 1,2,4-Trimethylbenzene; Trimethylbenzene

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

| Ingredient name | Cancer | Reproductive | No significant risk level                        | Maximum acceptable dosage level                      |
|-----------------|--------|--------------|--|--|
| Toluene         | No.    | Yes.         | No.  | 7000 µg/day (ingestion)<br>13000 µg/day (inhalation) |
| Benzene         | Yes.   | Yes.         | 6.4 µg/day (ingestion)<br>13 µg/day (inhalation) | 24 µg/day (ingestion)<br>49 µg/day (inhalation)      |
| Ethylbenzene    | Yes.   | No.          | 41 µg/day (ingestion)<br>54 µg/day (inhalation)  | No.  |
| Naphthalene     | Yes.   | No.          | Yes.   | No.  |

## Section 16. Other information

### History

**Date of issue mm/dd/yyyy** : 07/15/2014

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**Prepared by** : KMK Regulatory Services Inc.

**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 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
UN = United Nations

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.