

Benzene **Material Safety Data Sheet**

CITGO Petroleum Corporation P.O. Box 4689 Houston, TX 77210

Revision Date

03101

MSDS No.

6/12/2009

IMPORTANT: This MSDS is prepared in accordance with 29 CFR 1910.1200. Read this MSDS before transporting, handling, storing or disposing of this product and forward this information to employees, customers and users of this product.

Emergency Overview

Physical State Liquid.

Color Transparent, colorless.

Odor

Characteristic aromatic

hydrocarbon.

DANGER:

EXTREMELY FLAMMABLE LIQUID AND VAPOR, VAPOR MAY CAUSE FLASH FIRE.

Vapor may travel considerable distance to source of ignition and flash back.

Harmful or fatal if swallowed - can enter lungs and cause damage.

Breathing high concentrations can cause irregular heartbeats which may be fatal.

Contains Benzene - Cancer Hazard. Can cause leukemia and other blood disorders.

May be harmful if inhaled or absorbed through the skin.

Can cause eye, skin or respiratory tract irritation.

Overexposure can cause central nervous system (CNS)

depression and/or other target organ effects.

Harmful to aquatic organisms.

Hazard Rankings

HMIS NFPA

Health Hazard * 3 2

Fire Hazard 3 3 Reactivity 0 0

' = Chronic Health Hazard

Protective Equipment

Minimum Recommended See Section 8 for Details





SECTION 1. PRODUCT IDENTIFICATION

Trade Name Benzene **Technical Contact** (800) 248-4684

Product Number 03101 **Medical Emergency** (832) 486-4700 **CAS Number** 71-43-2 **CHEMTREC Emergency** (800) 424-9300

(United States Only)

Product Family Aromatic hydrocarbon.

Synonyms

CITGO® Material Code: 03101

SECTION 2. COMPOSITION

Concentration (%) Component Name(s) **CAS Registry No.**

>99 Benzene 71-43-2 Toluene 108-88-3 <1

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SECTION 3. HAZARDS IDENTIFICATION

Also see Emergency Overview and Hazard Ratings on the top of Page 1 of this MSDS.

Major Route(s) of Entry Skin contact. Inhalation. Ingestion. Eye.

Sians	and S	vmptoms	of Acute	Exposure

Inhalation Mist or vapor can irritate the throat and lungs. Breathing this material may cause central

nervous system depression with symptoms including nausea, headache, dizziness, fatigue, drowsiness, or unconsciousness. Breathing high concentrations of this material, for example, in an enclosed space or by intentional abuse, can cause irregular heartbeats which can

cause death.

Eye Contact This material can cause eye irritation with tearing, redness, or a stinging or burning feeling.

Further, it can cause swelling of the eyes with blurred vision. Effects may become more

serious with repeated or prolonged contact.

May cause skin irritation with redness, an itching or burning feeling, and swelling of the skin. **Skin Contact**

Effects may become more serious with repeated or prolonged contact. Skin contact may

cause harmful effects in other parts of the body.

Ingestion Swallowing this material may cause stomach or intestinal upset with pain, nausea, and/or

diarrhea. Swallowing this material may cause effects similar to those described in the

inhalation section (see "inhalation" above).

This material can get into the lungs during swallowing or vomiting. Small amounts in the

lungs can cause lung damage, possibly leading to chronic lung dysfunction or death.

Chronic Health Effects Summary

Benzene, a component of this product, is associated with blood disorders and may damage bone marrow, causing certain types of anemia. The International Agency for Research on Cancer (IARC) (1987, 2004, 2007) and the U.S. EPA (IRIS 2007) have determined that benzene is a human carcinogen. It is also capable of causing changes in living cells' genetic

material (chromosomes) and is considered to be a mutagen.

This material and/or its components have been associated with developmental toxicity, reproductive toxicity, genotoxicity, immunotoxicity and/or carcinogenicity. Refer to Section 11

of this MSDS for additional health-related information.

Conditions Aggravated

by Exposure

Disorders of the following organs or organ systems that may be aggravated by significant exposure to this material or its components include: Respiratory System, Central Nervous

System (CNS), Heart (Cardiac), Blood-forming system

May cause damage to the following organs: blood, kidneys, the reproductive system, liver, **Target Organs**

mucous membranes, heart, lymphatic system, immune system, skin, bone marrow, central

nervous system (CNS), eye, lens or cornea, testes.

Carcinogenic Potential This material contains benzene at concentrations above 0.1%. Benzene is considered to be

a known human carcinogen by OSHA, IARC and NTP.

	by an "X" in the box adjacent to the hazard title. If no "X" is present, as defined in the OSHA Hazard Communication Standard (29 CFR
OSHA Health Hazard Classification	OSHA Physical Hazard Classification

the product does not exhibit the hazard as defined in the OSHA Hazard Communication Standard (29 CFR 1910.1200).											
OSHA Health Hazard Classification		OSHA Physical Hazard Classification									
Irritant Toxic Corrosive	x	Sensitizer Highly Toxic Carcinogenic	X	Combustible Flammable Compressed Gas	X	Explosive Oxidizer Organic Peroxide		Pyrophoric Water-reactive Unstable			

SECTION 4. FIRST AID MEASURES

Take proper precautions to ensure your own health and safety before attempting rescue or providing first aid. For more specific information, refer to Exposure Controls and Personal Protection in Section 8 of this MSDS.

Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue Inhalation

breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, 100 percent humidified oxygen should be administered by a qualified

individual. Seek medical attention immediately.

Flush eyes with cool, clean, low-pressure water for at least 15 minutes. Hold eyelids apart to Eye Contact

> ensure complete irrigation of the eye and eyelid tissue. If easily accomplished, check for and remove contact lenses. If contact lenses cannot be removed, seek immediate medical

attention. Do not use eye ointment. Seek medical attention.

Skin Contact Remove contaminated shoes and clothing. Flush affected area with large amounts of water.

> If skin surface is damaged, apply a clean dressing and seek medical attention. Do not use ointments. If skin surface is not damaged, clean affected area thoroughly with mild soap and water. Seek medical attention if tissue appears damaged or if pain or irritation persists.

Do not induce vomiting. If spontaneous vomiting is about to occur, place victim's head below Ingestion knees. If victim is drowsy or unconscious, place on the left side with head down. Never give

anything by mouth to a person who is not fully conscious. Do not leave victim unattended.

Seek medical attention immediately.

Notes to Physician INHALATION: Inhalation overexposure can produce toxic effects. Monitor for respiratory

distress. If cough or difficulty in breathing develops, evaluate for upper respiratory tract inflammation, bronchitis, and pneumonitis. Administer supplemental oxygen with assisted

ventilation, as required.

This material (or a component) sensitizes the heart to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals

exposed to this material. Administration of sympathomimetic drugs should be avoided.

INGESTION: If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.

SECTION 5. FIRE FIGHTING MEASURES

NFPA Flammability Classification

NFPA Class-IB flammable liquid.

Flash Point Closed cup: -11.111°C (12°F). (Tagliabue (ASTM D-56))

Lower Flammable Limit AP 1.3% **Upper Flammable Limit** AP 7.1%

Autoignition

Temperature

AP 560°C (1040°F)

Products

Hazardous Combustion Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons, aldehydes and other products of incomplete combustion.

Special Properties Flammable Liquid! This material releases vapors at or below ambient temperatures. When

mixed with air in certain proportions and exposed to an ignition source, its vapor can cause a flash fire. Use only with adequate ventilation. Vapors are heavier than air and may travel long distances along the ground to an ignition source and flash back. A vapor and air mixture can create an explosion hazard in confined spaces such as sewers. If container is

not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media

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SMALL FIRE: Use dry chemicals, carbon dioxide, foam, or inert gas (nitrogen). Carbon dioxide and inert gas can displace oxygen. Use caution when applying carbon dioxide or inert gas in confined spaces.

LARGE FIRE: Use foam, water fog, or water spray. Water fog and spray are effective in cooling containers and adjacent structures. However, water can cause frothing and/or may not extinguish the fire. Water can be used to cool the external walls of vessels to prevent excessive pressure, autoignition or explosion. DO NOT use a solid stream of water directly on the fire as the water may spread the fire to a larger area.

Protection of Fire Fighters

Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles. Cover pooling liquid with foam. Containers can build pressure if exposed to radiant heat; cool adjacent containers with flooding quantities of water until well after the fire is out. Withdraw immediately from the area if there is a rising sound from a venting safety device or discoloration of vessels, tanks, or pipelines. Be aware that burning liquid will float on water. Notify appropriate authorities of potential fire and explosion hazard if liquid enter sewers or waterways.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. For more specific information, refer to the Emergency Overview on Page 1, Exposure Controls and Personal Protection in Section 8 and Disposal Considerations in Section 13 of this MSDS.

Flammable Liquid! Release causes an immediate fire or explosion hazard. Evacuate all non-essential personnel from immediate area and establish a "regulated zone" with site control and security. A vapor-suppressing foam may be used to reduce vapors. Eliminate all ignition sources. All equipment used when handling this material must be grounded. Stop the leak if it can done without risk. Do not touch or walk through spilled material. Remove spillage immediately from hard, smooth walking areas. Prevent spilled material from entering waterways, sewers, basements, or confined areas. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to appropriate waste containers. Use clean, non-sparking tools to collect absorbed material.

For large spills, secure the area and control access. Prevent spilled material from entering sewers, storm drains, other drainage systems, and natural waterways. Dike far ahead of a liquid spill to ensure complete collection. Water mist or spray may be used to reduce or disperse vapors; but, it may not prevent ignition in closed spaces. This material will float on water and its run-off may create an explosion or fire hazard. Verify that responders are properly HAZWOPER-trained and wearing appropriate respiratory equipment and fire-resistant protective clothing during cleanup operations. In an urban area, cleanup spill as soon as possible; in natural environments, cleanup on advice from specialists. Pick up free liquid for recycle and/or disposal if it can be accomplished safely with explosion-proof equipment. Collect any excess material with absorbant pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal. Comply with all applicable local, state and federal laws and regulations.

SECTION 7. HANDLING AND STORAGE

Handling

A spill or leak can cause an immediate fire or explosion hazard. Keep containers closed and do not handle or store near heat, sparks, or any other potential ignition sources. Avoid contact with oxidizing agents. Do NOT breathe vapor. Use only with adequate ventilation and personal protection. Never siphon by mouth. Avoid contact with eyes, skin, and clothing. Prevent contact with food and tobacco products. Do NOT take internally.

When performing repairs and maintenance on contaminated equipment, keep unnecessary persons away from the area. Eliminate all potential ignition sources. Drain and purge equipment, as necessary, to remove material residues. Follow proper entry procedures, including compliance with 29 CFR 1910.146 prior to entering confined spaces such as tanks or pits. Use gloves constructed of impervious materials and protective clothing if direct

contact is anticipated. Use appropriate respiratory protection when concentrations exceed any established occupational exposure level (See Section 8) Promptly remove contaminated clothing. Wash exposed skin thoroughly with soap and water after handling.

Non-equilibrium conditions may increase the fire hazard associated with this product. A static electrical charge can accumulate when this material is flowing through pipes, nozzles or filters and when it is agitated. A static spark discharge can ignite accumulated vapors particularly during dry weather conditions. Always bond receiving containers to the fill pipe before and during loading. Always confirm that receiving container is properly grounded. Bonding and grounding alone may be inadequate to eliminate fire and explosion hazards associated with electrostatic charges. Carefully review operations that may increase the risks associated with static electricity such as tank and container filling, tank cleaning, sampling, gauging, loading, filtering, mixing, agitation, etc. In addition to bonding and grounding, efforts to mitigate the hazards of an electrostatic discharge may include, but are not limited to, ventilation, inerting and/or reduction of transfer velocities. Dissipation of electrostatic charges may be improved with the use of conductivity additives when used with other mitigation efforts, including bonding and grounding. Always keep nozzle in contact with the container throughout the loading process.

Do NOT fill any portable container in or on a vehicle. Do NOT use compressed air for filling, discharging or other handling operations. Product container is NOT designed for elevated pressure. Do NOT pressurize, cut, weld, braze solder, drill, or grind on containers. Do NOT expose product containers to flames, sparks, heat or other potential ignition sources. Empty containers may contain material residues which can ignite with explosive force. Observe label precautions.

Keep container tightly closed. Store in a cool, dry, well-ventilated area. Store only in approved containers. Do not store with oxidizing agents. Do not store at elevated temperatures or in direct sunlight. Protect containers against physical damage. Head spaces in tanks and other containers may contain a mixture of air and vapor in the flammable range. Vapor may be ignited by static discharge. Storage area must meet OSHA requirements and applicable fire codes. Additional information regarding the design and control of hazards associated with the handling and storage of flammable and combustible liquids may be found in professional and industrial documents including, but not limited to, the National Fire Protection Association (NFPA) publications NFPA 30 ("Flammable and Combustible Liquid Code"), NFPA 77 ("Recommended Practice on Static Electricity") and the American Petroleum Institute (API) Recommended Practice 2003, ("Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents").

Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers or waste residues of this product.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls

Storage

Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. All electrical equipment should comply with the National Electrical Code. An emergency eye wash station and safety shower should be located near the work-station.

Personal Protective Equipment

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations. The following pictograms represent the minimum requirements for personal protective equipment. For certain operations, additional PPE may be required.



Eye Protection

Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. Chemical goggles should be worn during transfer operations or when there is a likelihood of misting, splashing, or spraying of this material. A suitable emergency eye wash water and safety shower should be located near the work station.

Hand Protection

Avoid skin contact. Use heavy duty gloves constructed of chemical resistant materials such as Viton®. Wash hands with plenty of mild soap and water before eating, drinking, smoking, use of toilet facilities or leaving work. DO NOT use gasoline, kerosene, solvents or harsh abrasives as skin cleaners.

Body Protection

Avoid skin contact. Wear long-sleeved fire-retardant garments (e.g., Nomex®) while working with flammable and combustible liquids. Additional chemical-resistant protective gear may be required if splashing or spraying conditions exist. This may include an apron, boots and additional facial protection. If product comes in contact with clothing, immediately remove soaked clothing and shower. Promptly remove and discard contaminated leather goods.

Respiratory Protection

For known vapor concentrations above the occupational exposure guidelines (see below), use a NIOSH-approved organic vapor respirator if adequate protection is provided. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134). For airborne vapor concentrations that exceed the recommended protection factors for organic vapor respirators, use a full-face, positive-pressure, supplied air respirator. Due to fire and explosion hazards, do not enter atmospheres containing concentrations greater than 10% of the lower flammable limit of this product.

General Comments

Warning! Use of this material in spaces without adequate ventilation may result in generation of hazardous levels of combustion products and/or inadequate oxygen levels for breathing. Odor is an inadequate warning for hazardous conditions.

Occupational Exposure Guidelines

Substance Applicable Workplace Exposure Levels

Benzene ACGIH (United States). Skin

TWA: 0.5 ppm 8 hour(s). STEL: 2.5 ppm 15 minute(s). OSHA PEL (United States). ACTN: 0.5 ppm 8 hour(s). TWA: 1 ppm 8 hour(s). STEL: 5 ppm 15 minute(s).

Toluene

ACGIH (United States).

TWA: 20 ppm 8 hour(s).

OSHA (United States).

TWA: 200 ppm 8 hour(s).

CEIL: 300 ppm

PEAK: 500 ppm 1 times per shift, 10 minute(s).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

Characteristic aromatic Odor Color Transparent, Physical State Liquid. hydrocarbon. colorless. 2.8 (Air = 1)Vapor **Specific Gravity** 0.884 (Water = 1)Ha Not applicable **Density Boiling Range** Melting/Freezing 6°C (42°F) 80°C (176°F) **Point** 76 mm Hg at 20°C (68°F). **Volatility** 884 g/I VOC (w/v) **Vapor Pressure** Slightly soluble in cold water (0.03%); Viscosity Solubility in 1 to 2 miscible with most organic solvents. Water (cSt @ 40°C)

Flash Point Closed cup: -11.111°C (12°F). (Tagliabue (ASTM D-56))

Additional Properties

C6-C7 Aromatic Hydrocarbons Content = 99.9 to 100 Wt.% (ASTM D-1319);

Average Density at $60^{\circ}F = 7.365$ lbs./gal. (ASTM D-2161);

Molecular Weight = 78.11;

Refractive Index at 20° C (-6.7°F) = 1.5011;

Odor Threshold = 4 to 34 ppm in air;

Aniline Cloud Point Temperature = 46°F (7.8°C) (ASTM D-611);

Kauri-Butanol (KB) Value = 110 (ASTM D-1133); Dry Point Temperature = 176°F (80°C) (ASTM D-86); Evaporation Rate = 4.5 when n-Butyl acetate = 1.0;

Heat Value = 17,673 Btu.

Conductivity <5 picosiemens/meter (unaddetized)

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous Polymerization Not expected to occur.

Conditions to Avoid Keep away from heat, sparks and flame.

Materials Incompatibility Strong acids, alkalies, and oxidizers such as liquid chlorine, other halogens, hydrogen

peroxide and oxygen.

Hazardous Decomposition Products No additional hazardous decomposition products were identified other than the combustion

products identified in Section 5 of this MSDS.

SECTION 11. TOXICOLOGICAL INFORMATION

ORAL (LD50):

For other health-related information, refer to the Emergency Overview on Page 1 and the Hazards Identification in Section 3 of this MSDS.

Toxicity Data

Benzene:

Acute: 930 mg/kg [Rat]. 4700 mg/kg [Mouse].

INHALATION (LC50):

(VAPOR): Acute: 10000 ppm 7 hour(s) [Rat]. 9980 ppm 8 hour(s) [Mouse].

Studies of Workers Over-Exposed to Benzene:

Studies of workers exposed to benzene show clear evidence that over-exposure can cause cancer of the blood forming organs (acute myelogenous leukemia) and aplastic anemia, an often fatal disease. Studies also suggest over-exposure to benzene may be associated with other types of leukemia and other blood disorders. Some studies of workers exposed to benzene have shown an association with increased rates of chromosome aberrations in circulating lymphocytes. One study of women workers exposed to benzene suggested a weak association with irregular menstruation. However, other studies of workers exposed to benzene have not demonstrated clear evidence of an effect on fertility or reproductive outcome in humans. Benzene can cross the placenta and affect the developing fetus. Cases of aplastic anemia have been reported in the offspring of persons severely over-exposed to benzene.

Studies in Laboratory Animals:

Studies in laboratory animals indicate that prolonged, repeated exposure to high levels of benzene vapor can cause bone marrow suppression and cancer in multiple organ systems. Studies in laboratory animals show evidence of adverse effects on male reproductive organs following high levels of exposure but no significant effects on reproduction have been observed. Embryotoxicity has been reported in studies of laboratory animals but effects were limited to reduced fetal weight and skeletal variations.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Analysis for ecological effects has not been conducted on this product. However, if spilled,

this product, its storage tank water bottoms and sludge, and any contaminated soil or water may be hazardous to human, animal, and aquatic life. Also, the coating action associated with this product can be harmful or fatal to aquatic life and waterfowl. Volatile aromatic components may be released and canpossibly contribute to the creation of atmospheric

smog.

Environmental Fate Biodegradability: Rapidly biodegradable in aerobic conditions.

Partition Coefficient (log Kow): 2.3

Photodegradation: Based on similar materials, this product will have a significant tendency to partition to air. Hydrocarbons from this product which do partition to air are expected to rapidly photodegrade. Distribution: Principally to air.

SECTION 13. DISPOSAL CONSIDERATIONS

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

> Maximize material recovery for reuse or recycling. Recovered non-usable material may be regulated by US EPA as a hazardous waste due to its ignitibility (D001) and/or its toxic (D018) characteristics. Conditions of use may cause this material to become a "hazardous waste", as defined by federal or state regulations. It is the responsibility of the user to determine if the material is a RCRA "hazardous waste" at the time of disposal. Transportation, treatment, storage and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR 260 through 40 CFR 271). State and/or local regulations may be more restrictive. Contact your regional US EPA office for guidance concerning case specfic disposal issues.

SECTION 14. TRANSPORT INFORMATION

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States.

US DOT Status A U.S. Department of Transportation regulated material.

Proper Shipping Name Benzene

DOT Class: 3 (Flammable liquid). **Hazard Class Packing Group** PG II

> **UN/NA Number UN1114**

Reportable Quantity 10 lbs

Placard(s) **Emergency Response** 130 Guide No.

> **MARPOL III Status** FLAMMABLE LIQUID

Not a DOT "Marine Pollutant" per 49 CFR

171.8.

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SECTION 15. REGULATORY INFORMATION

TSCA Inventory This product and/or its components are listed on the Toxic Substances Control Act (TSCA)

inventory.

SARA 302/304 Emergency Planning

and Notification

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No

components were identified.

SARA 311/312 Hazard Identification

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories:

Fire, Acute (Immediate) Health Hazard, Chronic (Delayed) Health Hazard

SARA 313 Toxic Chemical Notification and Release Reporting >99%This product contains the following components in concentrations above *de minimis* levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA:

Benzene, CAS Number, 71-43-2, Concentration: 100%

CERCLA The Comprehensive Environmental Response, Compensation, and Liability Act of 1980

(CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or

refinery stream that may be subject to this statute are:

Benzene CAS No.: 71-43-2] RQ 10 lbs. (4.536 kg) Concentration: 100%

Clean Water Act

(CWA)

This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

California Proposition 65

This material may contain the following components which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

Benzene: >99% Toluene: <1%

New Jersey Right-to-Know Label For New Jersey R-T-K labeling requirements, refer to components listed in Section 2.

Additional Remarks For Industrial Use Only. Not intended or suitable for use in or around a household or dwelling.

SECTION 16. OTHER INFORMATION

Refer to the top of Page 1 for the HMIS and NFPA Hazard Ratings for this product.

REVISION INFORMATION

Version Number 5.1

Revision Date 6/12/2009

ABBREVIATIONS

AP: Approximately EQ: Equal >: Greater Than <: Less Than

NA: Not Applicable ND: No Data NE: Not Established

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association IARC: International Agency for Research on Cancer

NIOSH: National Institute of Occupational Safety and Health NPCA: National Paint and Coating Manufacturers Association

EPA: US Environmental Protection Agency
HMIS: Hazardous Materials Information System
OSHA: Occupational Safety and Health Administration

NTP: National Toxicology Program

NFPA: National Fire Protection Association

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