

# Mystik® JT-6® Multi-Purpose Grease, No. 2

## **Material Safety Data Sheet**

CITGO Petroleum Corporation P.O. Box 3758 Tulsa, OK 74102-3758

**MSDS No.** 665006002

**Revision Date** 

04/15/2003

IMPORTANT: Read this MSDS before handling or disposing of this product and pass this information on to employees, customers and users of this product.

## **Emergency Overview**

Physical State Semi-solid to solid (Smooth and adhesive)

Color Amber. Odor Mild petroleum odor

WARNING:

Injection under the skin can cause severe injury.

Most damage occurs in the first few hours.

Initial symptoms may be minimal.

Hot grease will cause thermal burns upon contact.

Spills may create a slipping hazard.

Hazard Rankings		
	HMIS	NFPA
Health Hazard	1	0
Fire Hazard	1	1
Reactivity	0	0
* = Chronic Health Hazard		
Protective Equipment		
Minimum Recommended See Section 8 for Details		





#### **SECTION 1: IDENTIFICATION**

Trade Name Mystik® JT-6® Multi-Purpose Grease, No. 2 Technical Contact (800) 248-4684

Product Number 665006002 Medical Emergency (918) 495-4700

CAS Number Mixture. CHEMTREC Emergency (800) 424-9300

(United States Only)

Product Family Lubricating grease

**Synonyms** Lubricating grease;

CITGO Material Code No.: 665006002, 665995002, 663996002

#### **SECTION 2: COMPOSITION**

Component Name(s) CAS Registry No. Concentration (%)
Distillates, petroleum, hydrotreated light naphthenic 64742-53-6 0 - 90

Distillates, petroleum, hydrotreated heavy naphthenic 64742-52-5 0 - 90
Calcium, 12-hydroxy Stearate 3159-62-4 1 - 15
Proprietary Ingredients Proprietary Mixture 0 - 5
Antimony and antimony compounds Proprietary 0 - 1

#### **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.

Signs and Symptoms of Acute Exposure

999-10532-0204

Mystik® JT-6® Multi-Purpose Grease, No. 2 Inhalation No significant adverse health effects are expected to occur upon short-term exposure at ambient temperatures. At elevated temperatures, product vapor may cause respiratory tract irritation. Repeated or prolonged overexposure to product mists can result in respiratory tract inflammation and an increased risk of infection. This material can cause mild eye irritation from contact with product or product mists. **Eye Contact Skin Contact** This material can cause mild skin irritation from prolonged or repeated skin contact. Injection under the skin can cause inflammation and swelling. Injection of pressurized hydrocarbons can cause severe, permanent tissue damage. Initial symptoms may be minor. Injection of petroleum hydrocarbons requires immediate medical attention. Skin contact with hot material may result in severe burns. This material can cause a laxative effect. If swallowed in large quantities, this material can obstruct the Ingestion intestine. **Chronic Health Effects** Contains a petroleum-based mineral oil. Prolonged or repeated skin contact can cause mild irritation and Summary inflammation characterized by drying, cracking, (dermatitis) or oil acne. Repeated or prolonged inhalation of petroleum-based mineral oil mists at concentrations above applicable workplace exposure levels can cause respiratory irritation or other pulmonary effects. Conditions Aggravated Medical conditions aggravated by exposure to this material may include pre-existing skin disorders. by Exposure **Target Organs** This material may cause damage to the following organs: skin. Carcinogenic Potential This product does not contain any components at concentrations above 0.1% which are considered carcinogenic by OSHA, IARC or NTP. OSHA Hazard Classification is indicated by an "X" in the box adjacent to the hazard title. If no "X" is present, 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** Combustible **Explosive Pyrophoric** 

#### **SECTION 4: FIRST AID MEASURES**

**Highly Toxic** 

Carcinogenic

Sensitizer

Corrosive

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.

**Inhalation** Vaporization is not expected at ambient temperatures. This material is not expected to cause

**Flammable** 

**Compressed Gas** 

inhalation-related disorders under anticipated conditions of use. In case of overexposure, move the

Oxidizer

Organic Peroxide

Water-reactive

Unstable

person to fresh air.

Eye Contact Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water while

occasionally lifting and lowering eyelids. Seek medical attention if excessive tearing, redness, or pain

persists.

Skin Contact If burned by hot material, cool skin by quenching with large amounts of cool water. For contact with

product at ambient temperatures, remove contaminated shoes and clothing. Wipe off excess material. Wash exposed skin with mild soap and water. Seek medical attention if tissue appears damaged or if pain or irritation persists. Thoroughly clean contaminated clothing before reuse. Discard contaminated

leather goods. If material is injected under the skin, seek medical attention immediately.

**Ingestion** Do not induce vomiting unless directed to by a physician. Rinse out mouth with water. Never give

anything by mouth to a person who is not fully conscious. Allow small quantities to pass through the digestive system. If large amounts are swallowed or irritation or discomfort occurs, seek medical

attention immediately.

Notes to Physician In the event of injection in underlying tissue, immediate treatment should include extensive incision,

debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early

symptoms may be minimal.

### **SECTION 5: FIRE FIGHTING MEASURES**

NFPA Flammability

Classification

NFPA Class-IIIB combustible material.

Flash Point Method Open cup: >150°C (>302°F) (Estimated.).

Lower Flammable Limit No data. Upper Flammable Limit No data.

Autoignition Temperature Not available.

Hazardous
Combustion Products

Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and trace oxides of sulfur,

antimony, phosphorus and/or nitrogen.

**Special Properties** Fight the fire from a safe distance in a protected location. Open any masses with a water stream to

prevent reignition due to smoldering. Cool surface with water fog. Molten material can form flaming droplets if ignited. Water or foam can cause frothing. Use of water on product above 100° C (212° F) can cause product to expand with explosive force. Do not allow liquid runoff to enter sewers or public

waters.

**Extinguishing Media** Use dry chemical, foam, Carbon Dioxide or water fog.

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.

#### **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.

Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Slipping hazard; do not walk through spilled material. Stop leak if you can do so without risk. For small spills, absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal. Prevent entry into waterways or sewers. In urban area, cleanup spill as soon as possible. In natural environments, seek cleanup advice from specialists to minimize physical habitat damage. This material will float on water. Absorbent pads and similar materials can be used. Comply with all laws and regulation

#### **SECTION 7: HANDLING AND STORAGE**

Handling If this product is stored or applied in high-pressure systems such as grease guns or hydraulic lines,

there is the potential for accidental injection into the skin and underlying tissues. Hydrocarbons injected into skin or underlying tissues are not readily removed by body fluids and can cause pain, swelling, chemical irritation, infection and tissue destruction. Early symptoms may be minimal. Workers must be aware of the significant hazards associated with a hydrocarbon injection injury. In the event of an injection injury, workers should seek medical treatment immediately. Avoid water contamination and elevated temperatures to minimize product degradation. Empty containers may contain product residues that can ignite with explosive force. Do not pressurize, cut, weld, braze solder, drill, grind or expose containers to flames, sparks, heat or other potential ignition sources. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of

empty containers and/or waste residues of this product.

Storage Keep container closed. Do not store with strong oxidizing agents. Do not store at elevated

temperatures. Avoid storing product in direct sunlight for extended periods of time. 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** Ventilation controls are not normally required under anticipated conditions of use. Provide exhaust

ventilation or other engineering controls if airborne mists or vapors concentrations exceed recommended occupational exposure limits listed below. An 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.



Safety glasses equipped with side shields are recommended as minimum protection in industrial **Eye Protection** 

settings. Wear goggles and/or face shield if splashing or spraying is anticipated. Wear goggles and face shield if material is heated above 125°F (51°C). Have suitable eye wash water available.

Use gloves constructed of chemical resistant materials such as neoprene or heavy nitrile rubber if **Hand Protection** 

frequent or prolonged contact is expected. Use heat-protective gloves when handling product at

elevated temperatures.

Use clean and impervious protective clothing (e.g., neoprene or Tyvek®) if splashing or spraying **Body Protection** 

conditions are present. Protective clothing may include long-sleeve outer garment, apron, or lab coat. If significant contact occurs, remove oil-contaminated clothing as soon as possible and promptly shower. Launder contaminated before reuse or discard. Wear heat protective boots and protective

clothing when handling material at elevated temperatures.

Vaporization is not expected at ambient temperatures. Therefore, the need for respiratory protection is **Respiratory Protection** 

not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements

(29 CFR 1910.134).

**General Comments** Use good personal hygiene practices. Wash hands and other exposed skin areas 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. Since specific exposure standards/control limits have not been established for this product, the "Oil Mist, Mineral" exposure

limits shown below are suggested as minimum control guidelines.

**Occupational Exposure Guidelines** 

**Specific Gravity** 

**Substance** Applicable Workplace Exposure Levels

Oil Mist, Mineral ACGIH (United States).

TWA: 5 mg/m<sup>3</sup> STEL: 10 mg/m<sup>3</sup> OSHA (United States).

TWA: 5 mg/m<sup>3</sup>

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

Color Amber. Odor Mild petroleum odor **Physical State** Semi-solid to solid

> (Smooth and adhesive)

Vapor >10 (Air = 1) Not available. pН Not Applicable. Density

Melting/Freezing Not available.

**Boiling Range** Not applicable. **Point** 

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#### Mystik® JT-6® Multi-Purpose Grease, No. 2

Vapor Pressure <0.001 kPa (<0.01 mmHg) (at 20°C) Viscosity (cSt @ 40°C) 1080

Solubility in Water Insoluble in cold water. Volatile Negligible volatility

Characteristics

Additional Properties NLGI Grade: 2

Thickener: Calcium Texture: Adhesive

#### **SECTION 10: STABILITY AND REACTIVITY**

Chemical Stability Stable. Hazardous Polymerization Not expected to occur.

Conditions to Avoid Keep away from extreme heat, sparks, open flame, and strongly oxidizing conditions.

Materials Incompatibility Strong oxidizers.

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

**Decomposition Products** identified in Section 5 of this MSDS.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

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 Distillates, petroleum, hydrotreated light naphthenic:

ORAL (LD50): Acute: >5000 mg/kg [Rat].
DERMAL (LD50): Acute: >2000 mg/kg [Rabbit].

INHALATION (LC50) Acute: 9.6 mg/L (Female Rat). INHALATION (LC50) Acute: 10.5 mg/L (Male Rat). DRAIZE EYE Acute: Non-irritating (Rabbit). DRAIZE DERMAL Acute: Mild skin irritant (Rabbit). BUEHLER DERMAL Acute: Non-sensitizing (Guinea Pig).

28-Day DERMAL Sub-Chronic: Mild to moderate skin irritant (Rabbit & Rat).

A life-time dermal application of severely hydrotreated light naphthenic oils produced skin masses on mice which correlated with the skin irritation response levels of the test animals. Additional studies attribute these masses to a weak promotional activity. These studies indicate that light naphthenic oils are not mutagenic, tumor initiators nor complete chemical carcinogens. These materials have not been determined to be carcinogenic by IARC, NTP or OSHA.

#### Distillates, petroleum, hydrotreated heavy naphthenic:

ORAL (LD50): Acute: >5000 mg/kg [Rat].
DERMAL (LD50): Acute: >2000 mg/kg [Rabbit].

Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects.

#### Grease.

Injection of pressurized hydrocarbons under the skin, in muscle or into the blood stream can cause irritation, inflammation, swelling, fever and mild central nervous system depression. Injection of pressurized hydrocarbons can cause severe, permanent tissue damage.

#### **SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** Ecotoxicity data are not available for this product.

Environmental Fate An environmental fate analysis has not been cor

An environmental fate analysis has not been conducted on this specific product. Plants and animals may experience harmful or fatal effects when coated with petroleum-based products. Petroleum-based (mineral) lube oils will normally float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway can result in a loss of marine life or create an anaerobic environment. This material contains phosphorus which is a controlled element for disposal in effluent waters in most sections of North America. Phosphorus is known to enhance the formation of algae. Severe algae growth can reduce oxygen content in the water possibly below levels necessary to support marine life.

#### **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.

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 "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 the RCRA/Superfund Hotline at (800) 424-9346 or your regional US EPA office for guidance concerning case specific disposal issues. Empty drums and pails retain residue. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose this product's empty container to heat, flame, or other ignition sources. DO NOT attempt to clean it. Empty drums and pails should be drained completely, properly bunged or sealed, and promptly sent to a reconditioner.

**Emergency Response Guide** 

#### **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**Not regulated by the U.S. Department of Transportation as a hazardous material.

Proper Shipping Name Not regulated.

**Placards** 

Hazard Class Not regulated. Packing Group(s) Not applicable.

UN/NA ID Not regulated.

Reportable Quantity A Reportable Quantity (RQ) has not been established for this material.

No.

HAZMAT STCC No.

Not available

MARPOL III Status Not a DOT "Marine Pollutant"

per 49 CFR 171.8.

per 49 CFK 17 1.6.

Not applicable.

#### **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 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 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:

No SARA 311/312 hazard categories identified.

**SARA 313** 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: No

components were identified.

**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:

Antimony and Antimony Compounds, Concentration: 0 - 1%

**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 This product is not known to contain the any components for which the State of California has found to **Proposition 65** 

cause cancer, birth defects or other reproductive harm.

**New Jersey Right-to-Know Label** 

Petroleum Oil

**Additional Regulatory** 

Remarks

No additional regulatory remarks.

#### **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 22

**Revision Date** 04/15/2003

**Print Date** Printed on 04/15/2003.

**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 NTP: National Toxicology Program

NIOSH: National Institute of Occupational Safety and Health OSHA: Occupational Safety and Health Administration

NPCA: National Paint and Coating Manufacturers Association HMIS: Hazardous Materials Information System

NFPA: National Fire Protection Association EPA: US Environmental Protection Agency

DISCLAIMER OF LIABILITY

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#### Mystik® JT-6® Multi-Purpose Grease, No. 2

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\*\*\*\*\* END OF MSDS \*\*\*\*\*