



CITGO Petroleum Corporation

Product Name: Mineral Spirits 75

Product Code: 2222

Solvent

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Issue Date: 04/21/1998

MSDS No.: 2760

## Material Safety Data Sheet

### 1. Chemical Product and Company Identification

Product Name: Mineral Spirits 75

Product Code: 2222

Synonyms: NA

Product Description: Solvent Blend

RESPONSIBLE PARTY	PHONE NUMBERS
CITGO Petroleum Corporation	Medical Emergency 818/495-4700 (24 Hours)
1701 Golf Road, Suite 1-1101	CHEMTREC 800/424-9300 (24 Hours)
Rolling Meadows, IL 60008-4295	Sales/Technical Info. 800/987-7601 (8am - 4pm CT M-F)

### 2. Composition, Information on Ingredients

Generic Chemical Ingredients

Stoddard Solvent \*

CAS Number

8052-41-3

\* Formulated from Heavy Hydrodesulfurized Naphtha, CAS Number 64742-82-1, and Heavy Hydrotreated Naphtha, CAS Number 64742-48-9.

(See Section 8 for exposure guidelines)

### 3. Hazards Identification

#### EMERGENCY OVERVIEW

Clear liquid with little if any color, characteristic solvent-like odor.

**Combustible liquid.** (Flammable per 49 CFR 173.120 (b) (2)) Keep away from heat, sparks, flames, or other sources of ignition, such as static electricity, pilot lights, and mechanical/electrical equipment. Bond and ground all equipment when transferring from one container to another.

**Aspiration hazard if swallowed.** Can enter the lungs and cause damage. Do not taste or swallow.

**May cause mild to moderate eye irritation.**

**May cause moderate to severe skin irritation.**

Use ventilation adequate to keep exposures below exposure guideline, if any. (See Section 8 of MSDS). Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling

#### NFPA HAZARD CLASSIFICATION

Health 0  
Flammability 2  
Reactivity 0

#### HMIS HAZARD CLASSIFICATION

Health 2  
Flammability 2  
Reactivity 0

(Asterisk \* indicates chronic effects)

NFPA and HMIS codes assigned on basis of NFPA and NPCA guidelines.



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**POTENTIAL HEALTH EFFECTS**

**Eye:** May cause mild to moderate eye irritation. Contact may cause stinging, watering, redness and swelling.

**Skin:** May cause moderate to severe skin irritation. Contact may cause redness and burning of the skin. Prolonged or repeated contact may cause drying and cracking of the skin, burns, and dermatitis. Not expected to be hazardous by skin absorption.

**Inhalation:** Overexposure to vapors may produce central nervous system depression, causing narcosis. Expected to have low degree of toxicity by inhalation.

**Ingestion:** **ASPIRATION HAZARD.** This material can enter lungs during swallowing or vomiting and cause lung inflammation and pneumonia. Expected to have low degree of toxicity by absorption through digestive system.

**Signs and Symptoms:** Effects of overexposure may include eye and skin irritation, irritation of the nose and throat, central nervous system effects including dizziness, headache, drowsiness, loss of coordination, fatigue, giddiness, loss of appetite and abdominal pain. Symptoms of ingestion include irritation of digestive tract, nausea, vomiting and diarrhea.

**CHRONIC EFFECTS/CARCINOGENICITY:**

(See Section 11 for additional toxicological information)

**Cancer Information.** This material and components above 0.1% are not listed as carcinogens by IARC, NTP or OSHA.

**Target Organs** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as Solvent or Painters' Syndrome). Intentional misuse by deliberately concentrating and inhaling this material may be harmful or fatal.

This material is sometimes used as a dry-cleaning solvent. Retained solvent in absorbent clothing (e.g., shoulder pads) that remains in contact with the skin for prolonged periods has caused severe skin irritation including redness, swelling, burns and severe skin damage. Care must be taken to ensure that garments are completely dry before being worn.

**Pre-existing Medical Conditions:** Conditions aggravated by exposure may include disorders of the skin, respiratory and nervous system.

**4. First Aid Measures**

**Eye:** Move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek medical attention. For direct contact, hold eyelids apart and flush the eyes with clean water for at least 15 minutes. Seek medical attention.

**Skin:** Remove contaminated shoes and clothing, and flush affected area with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area thoroughly by washing with mild soap and water. If irritation or redness develops, seek medical attention.

**Inhalation:** If respiratory or other symptoms develop, move the victim away from the source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties



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develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

**Ingestion:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious, place on the left side with head down. If possible, do not leave victim unattended. Seek medical attention.

## **5. Fire Fighting Measures**

**Flammable Properties:** Flash Point 107 °F/ 42 °C (TCC)  
LFL: 0.5 / UFL: 6.0  
Autoignition Temperature ND  
OSHA Flammability Classification: Combustible Liquid

**Unusual Fire and Explosion Hazards:** This material is combustible. Keep away from heat, sparks, flames, or other sources of ignition such as static electricity, pilot lights, and mechanical/electrical equipment. Vapors may travel considerable distances to a source of ignition where they can ignite, flashback, or explode. May create vapor/air explosion hazard indoors, outdoors, or in sewers. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

**Extinguishing Media:** Dry chemical, carbon dioxide or foam is recommended. Water spray is recommended to cool or protect exposed containers, materials or structures. Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

**Fire Fighting Instructions:** Emergency responders in the danger area should wear bunker gear and self-contained breathing apparatus for fires beyond the incipient stage. In addition, wear other appropriate protective equipment as conditions warrant (See Section 8). Isolate the danger area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from danger area if it can be done with minimal risk. Water spray may be useful in dispersing vapors. Cool equipment with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

## **6. Accidental Release Measures**

**Combustible Liquid.** Keep all sources of ignition and hot metal surfaces away from spill. The use of explosion proof equipment is recommended. Stay upwind and away from spill. Isolate the danger area and keep unauthorized personnel out. Stop spill if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. Prevent spilled material from entering sewers, storm drains and natural waterways. Dike far ahead of spill for later recovery. Use foam on spills to minimize vapors and potential for fire. Small spills may be absorbed into absorbent material suitable for hydrocarbon liquids. Notify fire authorities and appropriate federal, state and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center at 800-424-8802. If spill in excess of the EPA reportable quantity is



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released off-site to air, water or land, immediately notify the National Response Center at 800-124-8802.

## 7. Handling and Storage

**Handling:** Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel or container to another. This material can accumulate static charge by flow or agitation. Vapors can be ignited by static discharge. Use explosion proof equipment as directed by local fire codes. Do not enter confined spaces such as tanks or pits without following proper entry procedures as described in OSHA regulations at 29 CFR 1910.146. The use of respiratory protection is recommended when airborne concentrations of vapor exceed exposure guidelines. Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Wear appropriate protective gloves and clothing to prevent prolonged or repeated skin contact.

**"Empty" containers may contain liquid and vapor residue and may be dangerous.** Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in accordance with governmental regulations. Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, governmental and industrial references pertaining to cleaning, repairing, welding or other contemplated operations.

**Storage:** Keep containers tightly closed. Use and store this material in cool, dry, well-ventilated area away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post area "No Smoking or Open Flames." Store only in approved containers. Keep away from incompatible material (See Section 10). Protect containers against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

## 8. Exposure Controls, Personal Protection

**Respiratory Protection:** A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge may be used under conditions where airborne concentrations are expected to exceed exposure guidelines. Protection provided by air purifying respirators is limited. Refer to respirator manufacturer's selection guide for appropriate respirator for conditions encountered. If in doubt, seek the advice of an industrial hygienist or safety professional for appropriate air purifying respiratory equipment. Use positive pressure air supplied respirator if there is potential for an uncontrolled release, exposure levels are not known, or in any other circumstances where air purifying respirators may not provide adequate protection. When respiratory protection is used, a respiratory protection program meeting OSHA regulations at 29 CFR 1910.134 must be followed. See *Exposure Guidelines* below for established exposure recommendations.

**Skin Protection:** The use of gloves impermeable to the specific material handled is advised to prevent prolonged or repeated skin contact. Where splashing is likely to occur, aprons impermeable to the specific material may be worn. Refer to the glove and protective



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clothing manufacturer's selection guide for appropriate material. Shoes soaked in material should be discarded. Launder contaminated clothing before reuse.

**Eye/Face Protection:** Approved chemical splash goggles should be worn to safeguard against potential eye contact, irritation or injury. Where splashing is likely to occur, hard hats and face shields may be used to provide additional protection. Eye wash facilities should be available in the work area.

**Engineering Controls:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure guidelines, additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used.

### Exposure Guidelines:

Substance	CAS #	OSHA PEL Limit	Type	ACGIH TLV Limit	Type
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#### Exposure guidelines applicable to Mixture:

Stoddard Solvent	8052-41-3	NE		100 PPM	TWA
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#### Exposure guidelines applicable to components:

Trimethyl Benzenes	Mixture	NE		25 PPM	TWA
Nonane (all isomers)	Mixture	NE		200 PPM	TWA

## 9. Physical and Chemical Properties

Unless otherwise stated, values are determined at 20 °C (68 °F) and 760 mm Hg (1 atm).

Flash Point: 107 °F/ 42 °C (TCC)

Flammable/Explosive Limits: LFL: 0.5 % / UFL 6.0 %

Autoignition Temperature: ND

Appearance: Clear, little if any color

Physical State: Liquid

Odor: Characteristic solvent-like

pH: NA

Vapor Pressure (mm Hg): 2.08

Vapor Density (air=1): 4.76

Boiling Point: 313-383 °F

Freezing/Melting Point: ND

Solubility in Water: 0.05%

Specific Gravity: 0.78

Heat Value (BTU): 19,712

Volatile Organic Compounds (VOC) Content 100 % 779 g/liter

Percent Volatile: 100 %

Evaporation Rate (nBuAc=1): 0.15

NA = Not Applicable

ND = No Data

NE = Not Established



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Bulk Density: 6.49 lb/gal

Approximate Molecular Weight: 138

## 10. Stability and Reactivity

**Chemical Stability:** Stable under normal conditions of storage and handling. Combustible liquid.

**Conditions to Avoid:** Avoid all possible sources of ignition. See sections 5 and 7.

**Incompatible Materials:** Avoid contact with strong oxidizing and reducing agents.

**Hazardous Decomposition Products:** Combustion can yield carbon dioxide and carbon monoxide.

**Hazardous Polymerization:** Will not occur.

## 11. Toxicological Information

### C9 Aromatic hydrocarbons

**Developmental:** Inhalation of C9 aromatic hydrocarbons by pregnant mice and rats from gestational days 6 to 15 resulted in decreased fetal weight.

## 12. Ecological Information

For ecological information on components of this product, users should refer to the Hazardous Substances Data Bank® maintained by the U. S. National Library of Medicine. Major components include C9 aromatics and C<sub>9-11</sub> paraffins and cycloparaffins.

## 13. Disposal Considerations

This material, if discarded as produced, would be a RCRA "characteristic" hazardous waste due to the characteristics of D001 and D018. Treatment, storage, transportation and disposal must be in accordance with applicable federal, state and local regulations. It is the responsibility of the user to determine the proper treatment, storage, transportation and disposal methods for specific waste streams. Contact the RCRA/Superfund Hotline at (1 800) 424-9346 or your regional U.S. EPA office for guidance concerning case specific disposal issues.

## 14. Transport Information

Proper Shipping Name: Petroleum Distillates, N.O.S (Naphtha Solvent)

Hazard Class: 3

Hazard Identification Number: UN 1268

Packing Group: III

Label: Flammable Liquid

## 15. Regulatory Information

**SARA Section 313 - Toxic Chemicals:** This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:



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Component	CAS Number	Percent
1,2,4-Trimethyl Benzene	95-63-8	1-3

**SARA Section 311/312 Hazard Categories:** This product meets the criteria of the Hazard Categories listed below as defined by 40 CFR Part 370 as established by Sections 311 and 312 of SARA:

Acute Fire

**SARA Section 302 Extremely Hazardous Substances:** This product is not known to contain any chemical components in concentrations greater than one percent that are listed as Extremely Hazardous Substances in 40 CFR Part 355 as established by Section 302 of SARA.

**Clean Water Act (CWA):** Pursuant to Section 311(b)(4) of the CWA, discharges of petroleum or petroleum products in any kind to surface waters must be immediately reported to the National Response Center: (800) 424-8802.

**CERCLA Hazardous Substances:** This material contains the following chemicals identified as Hazardous Substances in 40 CFR Part 302 as required by Section 102(a) of CERCLA. As defined in CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance:

None.

**California Proposition 65: WARNING:** This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 5249.5):

<u>Component</u>	<u>Effect</u>
Benzene	Cancer
Toluene	Developmental Toxicant

**US EPA TSCA Inventory:** This material or its components are listed in the TSCA Inventory.

## 16. Other Information

ALL STATEMENTS, INFORMATION, AND DATA PROVIDED IN THIS MATERIAL SAFETY DATA SHEET ARE BELIEVED TO BE ACCURATE AND RELIABLE, BUT ARE PRESENTED WITHOUT GUARANTEE, REPRESENTATION, WARRANTY, OR RESPONSIBILITY OF ANY KIND, EXPRESSED OR IMPLIED. ANY AND ALL REPRESENTATIONS AND/OR WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY DISCLAIMED. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION OR PRODUCTS FOR THEIR PARTICULAR PURPOSE. NOTHING

ASTRO PRODUCT CODE #10238



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