

MATERIAL SAFETY DATA SHEET

PAGE #: 1 OF 7

PRODUCT NAME: Torco Leaded Race Fuel 118 & 118 N.O.S.

MSDS NUMBER:

PRODUCT CODE:

MSDS DATE: 10/01/2009

KEY NUMBER:

EMERGENCY PHONE #'s: 1-800-424-9300

Torco Race Fuels
1727 South Mariposa Road
Apache Junction, AZ 85119
480-288-9385

HEALTH**2****FIRE****3**

Flash Point: Below 100°F, 38°C

REACTIVITY**0**

Stable

SPECIFIC

-

1. IDENTIFICATION

 See Addendum:

Ref. PAGE:

Chemical Name: Torco Leaded Race Fuel 118 & 118 N.O.S.

Chemical Family:

CAS #: Mixture

Chemical Formula:

CAS Name:

Molecular Weight:

Synonyms / Common Name: Race Fuel

DOT Information:

2. PHYSICAL DATA

 See Addendum:

Ref. PAGE:

Appearance: Thin Liquid

Color: Color of liquid varies

State: Liquid

Odor Characteristics: Hydrocarbon Odor

pH: NA

Viscosity: NDA

Specific Gravity (Water = 1): 0.68 - 0.69 @ 16° (60.8°F)

Vapor Density (Air = 1): 3-4

Vapor Pressure: 5.3 - 6.7 psia @ 38°C (100.4°)

Melting Point: NDA

Boiling Point: 29 - 121°C (249.8°F)

Flash Point: -37°C (-34.6°F)

Freezing Point:

Percent Volatility:

Evaporation Rate (BAC = 1): NDA

Solubility in Water: Negligible

Solubility in Oil:

Solubility in Acetone:

3. INGREDIENTS

 See Addendum:

Ref. PAGE:

Material / Components	CAS #:	CAS Name	TLV Units	Approx. %
2,2,4-Trimethylpentane	540-84-1			50-90%
Isopentane	78-78-4			1-10%
Toluene	108-88-3			1-10%
Isobutane	75-28-5			1-10%
Tetraethyl Lead	78-00-2			<0.6%

4. FIRE AND EXPLOSION HAZARD DATA

 See Addendum:

Ref. PAGE:

Flash Point: -37°C (-34.6°F)

Flammable Limits Lower
in Air % by volume: Upper

Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Special Fire Fighting Procedures: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Unusual Fire & Explosion Hazards: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

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5. HEALTH HAZARD DATA

See Addendum:

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Threshold Limit Value:

Effects of Overexposure:

Inhalation:

- Skin Contact:** Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.
- Eye Contact:** Contact with the eyes causes irritation. Symptoms may include pain, tearing, reddening, swelling and impaired vision. Not expected to cause prolonged or significant eye irritation.
- Ingestion:** This material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death.
- Delayed Effects:** Reproduction and birth defects: This material may cause birth defects based on animal data.

Medical Conditions Aggravated by Exposure

6. FIRST AID MEASURES

See Addendum:

PAGE #:

- Inhalation:** Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.
- Skin Contact:** To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse. Get medical attention if any symptoms develop.
- Eye Contact:** Flush eyes with running water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get immediate medical attention.
- Ingestion:** If swallowed, do not induce vomiting. Give the person a glass of water or milk to drink and get immediate medical attention. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: Ingestion of this product of subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

7. REACTIVITY DATA

See Addendum:

PAGE #:

- Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of
- Incompatibility: (materials to avoid)** May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous Combustion or Decomposition Products Carbon Oxides. Simple Hydrocarbons.

Hazardous Polymerization: Hazardous polymerization will not occur.

Conditions to Avoid: See Section 10

8. SPILL OR LEAK PROCEDURES

See Addendum:

PAGE #:

Actions to take for Leaks & Spills Protective Measures: Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator. Wear appropriate persona

Waste Disposal Method:

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9. SPECIAL PROTECTION INFORMATION

See Addendum: Ref. PAGE:

Respiratory Protection:

Eye Protection: Eye/Face Protection: Wear eye protection such as safety glasses, chemical goggles, or faceshields if engineering controls or work practices are not adequate to prevent eye contact.

Skin Protection:

Other Clothing:

Other Equipment:

Engineering Controls:

10. HANDLING AND STORAGE

See Addendum: Ref. PAGE:

Special Precautions:

Other Precautions:

11. REGULATORY INFORMATION

See Addendum: Ref. PAGE:

Workplace Classification:

12. TOXICOLOGICAL INFORMATION

See Addendum: Ref. PAGE:

Acute Data: Acute Oral Toxicity: Toluene: LD50 / rat / 5,500 g/kg
Acute Dermal Toxicity: Toluene: LD50 / rabbit / 12.4 g/kg
Acute Inhalation Toxicity: 2,2,4-Trimethylpentane (Isooctane): LC50 / rat / > 3078.4 ppm / 4 hour(s)

Reproductive / Teratology Data Reproductive and Developmental Toxicity: 2-generation/95 days/ inhalation/ rats / Doses: 0, 100, 500, or 2000ppm/ NOAEL = 2000ppm (max dose) -no effect on fertility, repro or lactation parameters; NOAEL for developmental effects =

13. ECOLOGICAL INFORMATION

See Addendum: Ref. PAGE:

Fate in the Environment:

14. DISPOSAL CONDITIONS

See Addendum: Ref. PAGE:

Procedures:

15. TRANSPORTATION INFORMATION

See Addendum: Ref. PAGE:

DOT Classification:

Warning Labels:

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16. OTHER INFORMATION

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ADDENDUM for Section - 5. HEALTH HAZARD DATA - Ref. Pg. 2

Inhalation: Breathing of high vapor concentrations may cause dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness. The vapor or nausea and loss of coordination. Continued inhalation may result in unconsciousness. The vapor or fumes from this material may cause respiratory irritation. Breathing this material at elevated concentrations causes central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death.

ADDENDUM for Section - 8. SPILL OR LEAK PROCEDURES - Ref. Pg. 2

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible sorbent materials or pumping. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

ADDENDUM for Section - 9. SPECIAL PROTECTION INFORMATION - Ref. Pg. 3

Respiratory Protection: If exposure is anticipated to be greater than applicable exposure limits, wear a NIOSH approved respirator that provides adequate protection from measured concentrations of this material, such as: Self-contained breathing apparatus (SCBA) for use in environments with unknown concentrations or emergency situations., or Air-Purifying Respirator for Organic Vapors, or Supplied-Air Respirator. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

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ADDENDUM for Section - 9. SPECIAL PROTECTION INFORMATION - Ref. Pg. 3

Skin Protection: Wear impervious protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and other substances present when selecting protective clothing. Suggested materials for protective gloves include: Chlorinated Polyethylene (or Chlorosulfonated Polyethylene), or Polyurethane, or Nitrile, or Viton

ADDENDUM for Section - 10. HANDLING AND STORAGE - Ref. Pg. 3

READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL . REFER TO PRODUCT LABEL OR MANUFACTURERS TECHNICAL BULLETINS FOR THE PROPER USE AND HANDLING OF THIS MATERIAL .

Precautionary Measures: This material presents a fire hazard. Liquid quickly evaporates and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 15°F. Do not taste or swallow. Do not breathe vapor or fumes.

General Handling Information: Avoid work practices that may release volatile components in the atmosphere. Local air pollution regulations should be consulted to determine if the release of volatile components is regulated or restricted in the area in which this material is used. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations, which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids, National Fire Protection Association (NFPA 77), Recommended Practice on Static Electricity' (liquids, powders and dusts), and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents' (liquids).

General Storage Information: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be

ADDENDUM for Section - 13. ECOLOGICAL INFORMATION - Ref. Pg. 3

ENVIRONMENTAL FATE:

This material is expected to be readily biodegradable. Following spillage, the more volatile components of gasoline will be rapidly lost, with concurrent dissolution of these and other constituents into the water. Factors such as local environmental conditions (temperature, wind, mixing or wave action, soil type, etc), photo-oxidation, biodegradation and adsorption onto suspended sediments, can contribute to the weathering of spilled gasoline.

Toluene is volatile and when released into water will be volatilized to the atmosphere where it is degraded with a half-life of 10 to 104 hours. Toluene is readily biodegradable in tests using sewage or sludge inocula. The biodegradation half-life for toluene in surface waters and soils is expected to range from 4 to 22 days. Toluene that does not evaporate following release to soil is expected to be highly mobile and may leach to groundwater. In groundwater, toluene has been reported to be degraded in 7 to 28 days.

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ADDENDUM for Section - 14. DISPOSAL CONDITIONS - Ref. Pg. 3

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

ADDENDUM for Section - 15. TRANSPORTATION INFORMATION - Ref. Pg. 3

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition). Consult the appropriate domestic or international mode- specific and quantity- specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading.

Shipping Descriptions per regulatory authority.

US DOT

UN1203, GASOLINE, 3, II, RQ (Isooctane, Toluene)

ICAO / IATA

UN1203, GASOLINE, 3, II

IMO / IMDG

UN1203, GASOLINE, 3, II, (-37°C), RQ (Isooctane, Toluene)

RID / ADR

UN1203, GASOLINE, 3, II

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ADDENDUM for Section -

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