SAFETY DATA SHEET

1. Product Identification

Champion Brands, LLC
1001 Golden Drive
Clinton, MO 64093
(660) 885-8151

Product line:	**CHAMPION ® Racing Fuels**
Products:	CRF111, CRF114, CRF 118
CAS:	Mixture
Synonyms:	Leaded Racing Fuel
Recommended use:	Off-Street Fuel
Restrictions:	Do not use near heat/sparks/open flames.
Created:	10 July 2012
Revised:	11 July 2012
Emergency phone:	CHEMTREC: (+1) 800-424-9300

2. Hazards Identification

Appearance:	Clear, colored liquid (dyed by octane rating)
Odor:	Hydrocarbon odor
Classification(s):	Flammable Liquid, Cat 1 Acute Toxicity, Cat 3, Inhalation Acute Toxicity, Cat 5, Dermal Acute Toxicity, Cat 3, Oral Eye Irritation, Cat 2A Skin Irritation, Cat 2 Germ Cell Mutagenicity, Cat 1B Reproductive Toxicity, Cat 1A Specific-target organ toxicity – single exposure, Cat 1 Inhalation, Heart Specific-target organ toxicity – single exposure, Cat 3 Inhalation, Nervous system, Auditory organs Specific-target organ toxicity – repeated exposure, Cat 1 Specific-target organ toxicity – repeated exposure, Cat 2 Inhalation, Nervous system, Auditory organs Aspiration Hazard, Category 1 Acute Aquatic Toxicity, Cat 1 Chronic Aquatic Toxicity, Cat 1
Target organs:	Heart, Nervous system, Auditory organs

Symbol(s):

Signal Word: **DANGER**

Hazard Statement(s): Extremely flammable liquid and vapor. Toxic if swallowed. May be fatal if swallowed and enters airways. May be harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause genetic defects. May damage fertility or the unborn child. Causes damage to organs (Heart) if inhaled. Causes damage to organs through prolonged or repeated exposure. May cause damage to organs (Nervous system, Auditory organs) through prolonged or repeated exposure if inhaled. Very toxic to aquatic life with long lasting effects

Other hazard(s): Contains tetraethylead (*CAS # 78-00-2*)

Precaution(s): **Do not handle until all safety precautions have been understood.** Do not breathe dust/fume/fas/mist/vapor/spray. Keep away from heat/sparks/open flames/hot surfaces – no smoking. Wash face, hands, and any exposed skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing. Do no ingest. IF SWALLOWED: Do NOT induce vomiting and immediately call a POISON CONTROL CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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Disposal: Keep out of waterways. Check local, national, and international regulations for proper disposal

3. Composition/Information on Ingredients

Hazardous Ingredients:

Component	*CAS No.*	*Conc (wt%)*
Naptha (petroleum), light alkylate	64741-66-8	30 – 60
Isoalkanes 7-8	70024-92-9	30 – 60
3,3-Dimethylpentane	562-49-2	30 – 60
Toluene	108-88-3	30 – 60

Isopentane	78-78-4	10 – 30
n-Butane	106-97-8	10 – 30
2,2,4-Trimethylpentane (isooctane)	540-84-1	5 – 10
2,3-Dimethylpentane	565-59-3	1 – 5
2,4-Dimethylpentane	108-08-7	1 – 5
2,3,4-Trimethylpentane	565-75-3	1 – 5
2,3,3-Trimethylpentane	560-21-4	1 – 5
Tetraethyl Lead	78-00-2	0.1 – 1

4. First Aid Measures

Eyes Remove contact lenses, if worn. Rinse with running water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention if irritation persists.

Skin Remove affected clothing and launder before reuse. Wash affected area for at least 15 minutes with soap and running water. Seek medical attention if persistent irritation occurs. Prolonged or repeated exposure may cause defatting of the skin – symptoms include redness, dryness, cracking

Inhalation Remove exposed person to fresh air and call a poison control center or physician immediately. If unconscious, place in recovery position and seek medical advice.

Ingestion If swallowed DO NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to minimize the chance of aspiration. Do not give milk or alcoholic beverages. Take victim immediately to the nearest hospital.

Additional Info Note to physician: Product contains tetraethylead. High risk of aspiration

Specific Treatments Call poison control for specific guidance.

5. Fire Fighting Measures

NFPA (estimated): **Health – 3 Fire – 3 Instability – 0**

Flash Point -37°C / -35°F

Extinguishing Media Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not discharge extinguishing waters into the aquatic environment.

Unsuitable Media Do not use water jet

Firefighting Procedures: Keep nearby containers cool with water spray.

Unusual Hazards Low flash point – significant potential for flash fires. Material will flow over water pools and may cause fire to spread. Combustion may product carbon monoxide, lead, and lead oxides.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Flammable liquid – can cause flash fires from a significant distance to a source of ignition. Keep unnecessary personnel away. Wear appropriate personal protective equipment for emergency. Ventilate if released in a confined area. Eliminate sources of ignition if it is safe to do so.

Environmental precautions: Avoid release to the environment. Prevent from entering into soil, ditches, sewers, waterways or groundwater

Methods for removal: Use an explosion-proof pump to remove bulk liquid. Residual liquid can be absorbed on inert material or evaporated with adequate ventilation. **Use only non-sparking tools**.

7. Handling and Storage

Max. Handling Temp: Do not store or handle at elevated temperatures. See Section 5 for flammability and Section 10 for chemical stability

Procedures: Use only in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Use appropriate containment to avoid environmental contamination. Vapors are heavier than air and will tend to accumulate in low areas. Avoid sources of ignition and use non-sparking tools. Avoid use in confined areas without adequate ventilation. Areas of inadequate ventilation could contain concentrations high enough to cause eye irritation, headaches, or nausea. Avoid breathing dust, fume, gas, mist, vapors, or spray. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of the product. Do no weld, heat, or pressurize empty containers. Do not re-use containers. Dispose of packaging or containers in accordance with local, regional, national, and international regulations. Store away from strong oxidizers

Max Store Temp: Do not store or handle at elevated temperatures.

Unsuitable Materials: Avoid prolonged contact with natural, butyl or nitrile rubbers.

Other: Store in a diked area and prevent discharge into the aquatic environment

8. Exposure Controls/Personal Protection

Exposure Limits

US
Guidelines by component
Toluene (CAS # 108-88-3)
OSHA PEL/TWA 200 ppm
OSHA PEL/STEL 300 ppm
ACGIH TLV 50 ppm

Isopentane (CAS # 78-78-4)
ACGIH TLV 600 ppm

n-Butane (CAS # 106-97-8)
ACGIH TLV 800 ppm

Tetraethyl lead (CAS # 78-00-2)
OSHA PEL 0.075 mg/m3
ACGIH TLV 0.1 mg/m3

Other Exposure Limits: Not determined

Engineering Controls: Use in a well ventilated area. Local and general ventilation should keep methanol vapor concentration below permissible limits. Where exposure potential exceeds recommended limits, use a NIOSH/OSHA approved supplied air respirator as recommended. Vapors are heavier than air and will tend to accumulate in low-lying areas.

Personal Protective Equipment
Respiratory: In the case of vapor formation use a respirator with an approved filter

Eye: Face shield or chemical splash goggles when splashing may occur. If possible, remove contact lenses before handling. Keep an eye wash bottle with pure water nearby

Gloves: Suitability of glove materials should be discussed with glove manufacturer

Clothing:	Use chemical resistant pants and jackets or other impervious clothing
Other:	Locate the nearest eyewash station and safety shower before handling this product. Limit exposure whenever possible. Consider flammability and always use non-sparking tools.
Hygiene:	Avoid contact with skin, eyes, and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling product.

9. Physical and Chemical Properties

Appearance	Clear, colored liquid (dyed by octane rating)
Odor	Hydrocarbon odor
Odor threshold	Not determined
pH	Not determined
Melting Point	Not determined
Initial Boiling Pt	Not determined
Flash Point	-37°C / -35°F
Evaporation Rate	0.25 (where ethyl ether = 1)
Upper Flammable Lm	No data available
Lower Flammable Lm	No data available
Explosive Data	Vapors of this product may form explosive mixtures with air
Vapor Pressure	6.3 – 7.0 PSI (ASTM D-5191)
Vapor Density	3 (Air = 1)
Volatile Organics	>99%
Density	0.73 mg/cu. cm @15.6°C
Solubility	Negligible
K_{ow}	Not determined
Viscosity	1 mm/s^2 @ 40°C / 105°F
Autoignition Point	Not determined
Decomposition Temp	Not determined

10. Stability and Reactivity

Stability	Material is highly volatile and forms explosive mixtures with air. Avoid oxidizers, heat, and sparks.
Decomposition Temp	Not determined. Stable under normal conditions of use
Incompatibility	Keep away from strong oxidizers (nitrates, chlorates, peroxides, etc). Contact with these materials may cause violent or explosive reactions.
Polymerization	Will not occur

Thermal Decomposition	Combustion products highly dependent on conditions. Produces carbon oxides, polyaromatic heterocycles, carbon monoxide and lead compounds
Conditions to Avoid	Flammable liquid and vapor – keep away from strong oxidizers as well as heat/sparks/open flames/hot surfaces.

11. Toxicological Information

- Acute Exposure –

Eye Irritation	May cause irreversible eye damage.
Skin Irritation	Irritating to the skin. Prolonged or repeated exposure may cause defatting, drying, or cracking of the skin
Respiratory Irritation	May be irritating to the lungs and respiratory tract
Dermal Toxicity	Toxic by absorption: LC50 (rabbit) 4.815mg/kg
Inhalation Toxicity	Toxic by inhalation: LC50 (rat) 4.7mg/l/4HR
Oral Toxicity	Toxic by ingestion: LC50 (rat) 183 mg/kg
Aspiration Hazard	This product has a very low viscosity and may be fatal if aspirated into the airways. Do NOT induce vomiting, as this increases risk of aspiration. Aspiration may be fatal.

- Chronic Exposure –

Chronic Toxicity	No data available for this product. Components of this product do have chronic toxicity
Carcinogenicity	This product contains tetraethyl lead. While not explicitly listed as a carcinogen by NTP or IARC, other lead compounds are listed and tetraethyl lead may pose a risk of carcinogenicity.
Mutagenicity	This product presents a germ cell mutagenicity hazard
Reproductive Toxicity	Components of this product have shown reproductive toxicity in animal testing (rats, inhalation)
Teratogenicity	Components of this product have shown teratogenicity in animal studies (rats; inhalation, oral gavage)

- Additional Information –

Target organ toxicity	Product classified as a target organ toxicant for the heart, nervous system, and auditory organs
Other Effects	Exposure above the TLV may cause narcotic effects including headache, dizziness, tiredness, nausea, and vomiting.
Pharmacokinetics	No data available

12. Ecological Information

- Environmental Toxicity –

Fish	LC50 1.66mg/l/96HR (Salmo gairdneri)
Invertebrates	EC50 0.52mg/l/48HR (Daphnia magna)
Algae	EC50 1.98 mg/l/72HR (Selenastrum capricornutum)

Bacteria	Not determined
Miscellaneous	Not determined

- Environmental Fate –

Biodegradation	Expected to be readily biodegradable. Oxidizes rapidly by photo-chemical reactions in the air.
Bioaccumulation	Adheres to soil – has the potential to bioaccumulate
Soil Mobility	Low K_{ow} limits soil mobility. High volatility makes bioaccumulation less likely.
Other Effects	Floats on water and produces a sheen – very mobile in the aquatic environment

13. Disposal Considerations

Disposal Considerations

All disposal practices must be in accordance with local, regional, national, and international regulations. Store material for disposal as indicated in Section 7. Disposal by controlled incineration or recycling may be acceptable – review applicable regulations or regulatory bodies before making disposal decisions.

Contaminated Containers or Packaging

Empty containers are likely to contain flammable vapors or explosive mixtures of vapor and air. Do NOT weld, cut, or grind empty containers. Send to reconditioner or metal reclaimer if possible. Dispose of in accordance with local, regional, national, and international regulations

14. Transportation Information

Description shown may not apply to all shipping situations. Consult applicable shipping codes to determine any additional shipping requirements

US DOT	
UN No	1203
UN Proper Name	Gasoline
UN Class	3
Packing Group	II
Marine Pollutant	Yes
IMDG	UN1203, Gasoline, 3, II, (-37°C)
ICAO/IATA	UN1203, Gasoline, 3, II

15. Regulatory Information

- Global Chemical Inventories/Regulations –

USA	On TSCA inventory or in compliance with inventory
EU	On REACH inventory or in compliance with inventory
New Zealand	Not in compliance with NZIoC

Canada On NDSL inventory or in compliance with inventory

Canada WHMIS B2 (Flammable Liquid)
D2A (Very toxic material – carcinogenicity, teratogenicity, embryotoxicity)
D2B (Toxic material - skin or eye irritation)

- Other U.S. Federal Regulations –

SARA Ext. Haz. Subst. Toluene (RQ 1000lbs) and Tetraethyl lead (RQ 10 lbs) are listed on SARA 302 Extremely Hazardous Substances list.

SARA 311/312
Acute Hazard - YES
Chronic Hazard - YES
Fire Hazard - YES
Reactivity Hazard - *NO*

SARA Sect. 313 Toluene (*CAS# 108-88-3)* is listed as in SARA Section 313

CERCLA Haz. Sub. Toluene (RQ 1000lbs) and Tetraethyl lead (RQ 10 lbs) are listed as hazardous substances in CERCLA with the reportable quantities listed above

- State Regulations –

CA Prop 65 This product contains Toluene (CAS# 108-88-3), known to the State of California to cause birth defects (developmental) and contains lead compounds, known to the State of California to cause cancer.

Right to Know Component	***Right to Know States***
n-Butane (CAS# 106-97-8)	NJ, MA, PA
Toluene (CAS# 108-88-3)	NJ, MA, PA
Tetraethyl lead (CAS# 78-00-2)	NJ
Isopentane (CAS# 78-78-4)	NJ, PA

- Other –

Not determined

16. Other Information

Revision updates may be in many sections and the MSDS should be read in its entirety.
Prepared according to the UN Globally Harmonized System for the Classification and Labeling of Chemicals (GHS) by Champion LLC, 1001 Golden Drive, Clinton, Missouri 64735.

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