SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product information
Product Name: Reference Fuel A
Material: 1103204, 1102597, 1029651, 1029652, 1029653

Use: Engine Testing

Company: Chevron Phillips Chemical Company LP
Specialty Chemicals
10001 Six Pines Drive
The Woodlands, TX 77380

Emergency telephone:
Health: 866.442.9628 (North America)
1.832.813.4984 (International)

Transport: CHEMTREC 800.424.9300 or 703.527.3887(int'l)
Asia: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department: Product Safety and Toxicology Group
E-mail address: SDS@CPChem.com
Website: www.CPChem.com

SECTION 2: Hazards identification

Classification of the substance or mixture
This product has been classified in accordance with the hazard communication standard 29 CFR
1910.1200; the SDS and labels contain all the information as required by the standard.

Emergency Overview

Danger
Form: Liquid
Physical state: Liquid
Color: Colorless
Odor: Mild
OSHA Hazards: Flammable Liquid, Moderate skin irritant, Aspiration hazard,
Specific target organ systemic toxicity - single exposure

Classification: Flammable liquids, Category 2

SDS Number: 100000014070 1/13
Skin irritation, Category 2
Specific target organ systemic toxicity - single exposure, Category 3, Central nervous system
Aspiration hazard, Category 1

Labeling

Symbol(s):  
Signal Word: Danger

Hazard Statements:  
H225: Highly flammable liquid and vapor.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H336: May cause drowsiness or dizziness.

Precautionary Statements:  
Prevention:
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/eye protection/face protection.

Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P331 Do NOT induce vomiting.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:
P501 Dispose of contents/container to an approved waste disposal plant.

Carcinogenicity:
**SECTION 3: Composition/information on ingredients**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,2,4-Trimethylpentane (Isooctane)</td>
<td>540-84-1</td>
<td>90 - 100</td>
</tr>
</tbody>
</table>

**SECTION 4: First aid measures**

- **General advice**: Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.
- **If inhaled**: If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
- **In case of skin contact**: If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
- **In case of eye contact**: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
- **If swallowed**: Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

**SECTION 5: Firefighting measures**

- **Flash point**: -8 °C (18 °F)
  Method: Tag closed cup
- **Autoignition temperature**: No data available
- **Suitable extinguishing media**: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.
- **Unsuitable extinguishing media**: High volume water jet.

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**Reference Fuel A**

**Version 1.2**  
**Revision Date 2016-02-03**

### Specific hazards during fire fighting

- Do not allow run-off from fire fighting to enter drains or water courses.

### Special protective equipment for fire-fighters

- Wear self-contained breathing apparatus for firefighting if necessary.

### Further information

- Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

### Fire and explosion protection

- Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

### Hazardous decomposition products

- Hydrocarbons. Carbon oxides.

### SECTION 6: Accidental release measures

<table>
<thead>
<tr>
<th>Personal precautions</th>
<th>Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental precautions</td>
<td>Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.</td>
</tr>
<tr>
<td>Methods for cleaning up</td>
<td>Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).</td>
</tr>
</tbody>
</table>

### SECTION 7: Handling and storage

<table>
<thead>
<tr>
<th>Handling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advice on safe handling</td>
</tr>
<tr>
<td>Advice on protection against fire and explosion</td>
</tr>
</tbody>
</table>
Storage

Requirements for storage areas and containers: No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

Engineering measures

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection: Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Organic Vapors. 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.

Hand protection: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection: Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.

Hygiene measures: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
**Reference Fuel A**

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

**Appearance**

- **Form**: Liquid
- **Physical state**: Liquid
- **Color**: Colorless
- **Odor**: Mild

**Safety data**

- **Flash point**: -8 °C (18 °F)  
  Method: Tag closed cup
- **Lower explosion limit**: 1 %(V)
- **Oxidizing properties**: No
- **Autoignition temperature**: No data available
- **Molecular formula**: C8H18
- **Molecular weight**: 114.26 g/mol
- **pH**: No data available
- **Pour point**: No data available
- **Boiling point/boiling range**: 99 °C (210 °F)
- **Vapor pressure**: 1.70 PSI  
  at 37.8 °C (100.0 °F)
- **Relative density**: 0.69
- **Water solubility**: Insoluble
- **Partition coefficient: n-octanol/water**: Pow: 4.53
- **Viscosity, kinematic**: No data available
- **Relative vapor density**: 3  
  (Air = 1.0)
- **Evaporation rate**: No data available

## SECTION 10: Stability and reactivity

**Chemical stability**: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
**Possibility of hazardous reactions**

<table>
<thead>
<tr>
<th>Conditions to avoid</th>
<th>No data available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials to avoid</td>
<td>May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Hydrocarbons, Carbon oxides</td>
</tr>
</tbody>
</table>

Other data: No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

**Acute oral toxicity**

2,2,4-Trimethylpentane (Isooctane): LD50: > 5,000 mg/kg  
Species: Rat  
Sex: male and female  
Method: OECD Test Guideline 401  
Symptoms: Salivation

**Acute inhalation toxicity**

2,2,4-Trimethylpentane (Isooctane): LC50: > 33.52 milligram per liter  
Exposure time: 4 h  
Species: Rat  
Sex: male and female  
Test atmosphere: vapor  
Method: OECD Test Guideline 403

**Acute dermal toxicity**

2,2,4-Trimethylpentane (Isooctane): LD50: > 2000 milligram per kilogram  
Species: Rabbit  
Sex: male and female  
Method: OECD Test Guideline 402

**Reference Fuel A Skin irritation**

May cause skin irritation in susceptible persons.

**Reference Fuel A Eye irritation**

Vapors may cause irritation to the eyes, respiratory system and the skin.

**Sensitization**

2,2,4-Trimethylpentane (Isooctane): Does not cause skin sensitization.

**Repeated dose toxicity**

2,2,4-Trimethylpentane (Isooctane): Species: Rat, Male and female  
Sex: Male and female  
Application Route: Inhalation  
Dose: 0, 668, 2220, 6646 ppm  
Exposure time: 13 weeks  
Number of exposures: 6 hr/day 5 d/wk

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Reproductive toxicity

2,2,4-Trimethylpentane (Isooctane)

- Species: Rat
- Sex: male and female
- Application Route: Inhalation
- Dose: 0, 900, 3000, 9000 ppm
- Number of exposures: 6 h/d 5 d/wk
- Method: OECD Test Guideline 416
- NOAEL Parent: 3000 ppm
- NOAEL F1: 3000 ppm
- NOAEL F2: 3000 ppm

Information given is based on data obtained from similar substances.

Developmental Toxicity

2,2,4-Trimethylpentane (Isooctane)

- Species: Rat
- Application Route: Inhalation
- Dose: 0, 400, 1200 ppm
- Number of exposures: 6h/d
- Test period: GD6-15
- NOAEL Teratogenicity: 1200 ppm
- NOAEL Maternal: 1200 ppm

Information given is based on data obtained from similar substances.

Species: Rat
- Application Route: Inhalation
- Dose: 0, 900, 3000, 9000 ppm
- Number of exposures: 6h/d
- Test period: GD6-15
- Method: OECD Guideline 414
- NOAEL Teratogenicity: 9000 ppm
- NOAEL Maternal: 3000 ppm

Information given is based on data obtained from similar substances.

Reference Fuel A
Aspiration toxicity

- May be fatal if swallowed and enters airways.
- Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.

CMR effects

2,2,4-Trimethylpentane (Isooctane)

- Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Teratogenicity: Animal testing did not show any effects on fetal development.
- Reproductive toxicity: Animal testing did not show any effects on fertility.
Further information: Solvents may degrease the skin.

SECTION 12: Ecological information

Toxicity to fish

2,2,4-Trimethylpentane (Isooctane) : LC50: 0.11 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)
semi-static test Method: OECD Test Guideline 203
Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates

2,2,4-Trimethylpentane (Isooctane) : EC50: 0.4 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
static test Information given is based on data obtained from similar substances.

Toxicity to algae

2,2,4-Trimethylpentane (Isooctane) : EL50: 2.943 mg/l
Exposure time: 72 h
Method: QSAR modeled data

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

2,2,4-Trimethylpentane (Isooctane) : NOEC: 0.17 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

Elimination information (persistence and degradability)

Biodegradability : Expected to be ultimately biodegradable

Ecotoxicology Assessment

Acute aquatic toxicity
2,2,4-Trimethylpentane (Isooctane) : Very toxic to aquatic life.

Chronic aquatic toxicity
2,2,4-Trimethylpentane (Isooctane) : Very toxic to aquatic life with long lasting effects.

Results of PBT assessment
2,2,4-Trimethylpentane (Isooctane) : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects.
SECTION 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

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.

Product: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

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 SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)
UN1262, OCTANES, 3, II, MARINE POLLUTANT, (2,2,4-TRIMETHYLpentane (ISOoCTANE)), RQ (2,2,4-TRIMETHYLpentane (ISOoCTANE))

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)
UN1262, OCTANES, 3, II, (-8 °C), MARINE POLLUTANT, (2,2,4-TRIMETHYLpentane (ISOoCTANE))

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)
UN1262, OCTANES, 3, II

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))
UN1262, OCTANES, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (2,2,4-TRIMETHYLpentane (ISOoCTANE))

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))
UN1262, OCTANES, 3, II, ENVIRONMENTALLY HAZARDOUS, (2,2,4-TRIMETHYLpentane (ISOoCTANE))
ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)
UN1262, OCTANES, 3, II, ENVIRONMENTALLY HAZARDOUS, (2,2,4-TRIMETHYL-PENTANE (ISOOCTANE))

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

National legislation

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard

CERCLA Reportable Quantity : 1001 lbs
2,2,4-Trimethylpentane (Isooctane)

SARA 302 Reportable Quantity : This material does not contain any components with a SARA 302 RQ.

SARA 302 Threshold Planning Quantity : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 Reportable Quantity : This material does not contain any components with a section 304 EHS RQ.

SARA 313 Ingredients : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):
2,2,4-Trimethylpentane (Isooctane) - 540-84-1

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

SDS Number: 100000014070
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC’s (40 CFR 60.489).

### US State Regulations

<table>
<thead>
<tr>
<th>State</th>
<th>Substance</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pennsylvania Right To Know</td>
<td>2,2,4-Trimethylpentane (Isooctane)</td>
<td>540-84-1</td>
</tr>
<tr>
<td>New Jersey Right To Know</td>
<td>2,2,4-Trimethylpentane (Isooctane)</td>
<td>540-84-1</td>
</tr>
<tr>
<td>California Prop. 65 Ingredients</td>
<td>This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.</td>
<td></td>
</tr>
</tbody>
</table>

### Notification status

<table>
<thead>
<tr>
<th>Region</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe REACH</td>
<td>A substance or substances in this product is not registered or notified to be registered. Importation or manufacture of this product is still permitted provided that it does not exceed the REACH minimum threshold quantity of the non-regulated substances.</td>
</tr>
<tr>
<td>United States of America TSCA</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>Canada NDSL</td>
<td>This product contains one or several components listed in the Canadian NDSL.</td>
</tr>
<tr>
<td>Australia AICS</td>
<td>Not in compliance with the inventory</td>
</tr>
<tr>
<td>New Zealand NZIoC</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>Japan ENCS</td>
<td>On the inventory, or in compliance with the inventory</td>
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<tr>
<td>Korea KECI</td>
<td>On the inventory, or in compliance with the inventory</td>
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<tr>
<td>Philippines PICCS</td>
<td>On the inventory, or in compliance with the inventory</td>
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<tr>
<td>China IECSC</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
</tbody>
</table>

### SECTION 16: Other information

**NFPA Classification**

- Health Hazard: 2
- Fire Hazard: 3
- Reactivity Hazard: 0
Further information

Legacy SDS Number : 26080

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

<table>
<thead>
<tr>
<th>Key or legend to abbreviations and acronyms used in the safety data sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACGIH</strong></td>
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SDS Number:100000014070

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