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

**Product information**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>PRF Isooctane + TEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>1098715, 1098717, 1098712, 1098713, 1098720, 1098714, 1098719, 1098716, 1092025, 1091995, 1092012, 1092013, 1091997, 1092017, 1092018, 1092019, 1092008, 1095235, 1092007, 1094713, 1094712, 1094671, 1094670, 1094669, 1094668, 1092023, 1091996, 1094712, 1094670, 1094669, 1094668, 1092023, 1091996, 1091944, 1091945, 1091947, 1091948, 1091949, 1091950, 1092009, 1092014, 1091943, 1091998, 1092000, 1092001, 1092002, 1092003, 1092004, 1091994, 1062407, 1098691, 1097787, 1020579, 1020579, 1020577, 1105590</td>
</tr>
</tbody>
</table>

**Use**

Fuel

**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: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
Mexico CHEMTREC 01-800-681-9531 (24 hours)
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Argentina: +(54)-1159839431

**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.
Classification

: Flammable liquids, Category 2
  Skin irritation, Category 2
  Reproductive toxicity, Category 1A
  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.
  H360: May damage fertility or the unborn child.

Precautionary Statements

: Prevention:
  P201 Obtain special instructions before use.
  P202 Do not handle until all safety precautions have been read and understood.
  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/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
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/doctor if you feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
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:**

**IARC**  
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**NTP**  
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**ACGIH**  
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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

**Synonyms:** 2,2,4-Trimethylpentane / Tetraethyl Lead  
**Molecular formula:** Mixture

<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>99.4 - 100</td>
</tr>
<tr>
<td>Tetraethyl Lead</td>
<td>78-00-2</td>
<td>0.001 - 1</td>
</tr>
</tbody>
</table>

**SECTION 4: First aid measures**

**General advice**  
Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.

**If inhaled**  
Call a physician or poison control center immediately. Move to fresh air. If unconscious, place in recovery position and seek medical advice.

**In case of skin contact**  
Take victim immediately to hospital. If on skin, rinse well with water. If on clothes, remove clothes.

**In case of eye contact**  
Immediately flush eye(s) with plenty of water. 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. Take victim immediately to hospital.
## SECTION 5: Firefighting measures

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>-12.22 °C (10.00 °F) estimated</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>411 °C (772 °F)</td>
</tr>
<tr>
<td>Suitable extinguishing media</td>
<td>Dry chemical. Carbon dioxide (CO2). Alcohol-resistant foam.</td>
</tr>
<tr>
<td>Unsuitable extinguishing media</td>
<td>High volume water jet.</td>
</tr>
<tr>
<td>Specific hazards during firefighting</td>
<td>Do not allow run-off from fire fighting to enter drains or water courses.</td>
</tr>
<tr>
<td>Special protective equipment for fire-fighters</td>
<td>Wear self-contained breathing apparatus for firefighting if necessary.</td>
</tr>
<tr>
<td>Further information</td>
<td>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.</td>
</tr>
<tr>
<td>Fire and explosion protection</td>
<td>Do not spray on an open flame or any other incandescent material. Use only explosion-proof equipment. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Hydrocarbons. Carbon oxides.</td>
</tr>
</tbody>
</table>

## SECTION 6: Accidental release measures

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal precautions</td>
<td>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.</td>
</tr>
<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>
<th></th>
</tr>
</thead>
</table>

SDS Number:100000014063
Advice on safe handling: Avoid formation of aerosol. Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

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

Storage

Requirements for storage areas and containers: Prevent unauthorized access. 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

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Basis</th>
<th>Value</th>
<th>Control parameters</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,2,4-Trimethylpentane (Isooctane)</td>
<td>ACGIH</td>
<td>TWA</td>
<td>300 ppm</td>
<td>URT, irr.</td>
</tr>
<tr>
<td>Tetraethyl Lead</td>
<td>ACGIH</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
<td>CNS impair, A4, Skin,</td>
</tr>
<tr>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>0.075 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA Z-1-A</td>
<td>TWA</td>
<td>0.075 mg/m³</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Immediately Dangerous to Life or Health Concentrations (IDLH)

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetraethyl Lead</td>
<td>78-00-2</td>
<td>Immediately Dangerous to Life or Health Concentration Value 40 mg/m³</td>
<td>1995-03-01</td>
</tr>
</tbody>
</table>

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 work place 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

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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: Organic Vapor Cartridges.

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. Suggested materials for protective gloves include: Viton.

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

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear as appropriate: Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.

Hygiene measures: 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 the product.

**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: -12.22 °C (10.00 °F) estimated
- Lower explosion limit: 1 %(V)
- Upper explosion limit: 7 %(V)
- Oxidizing properties: no
- Autoignition temperature: 411 °C (772 °F)
- Thermal decomposition: No data available
- Molecular formula: Mixture
- Molecular weight: Not applicable
- pH: Not applicable
SAFETY DATA SHEET

PRF Isooctane + TEL

Version 1.3
Revision Date 2018-06-04

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:
0.7
at 15.6 °C (60.1 °F)

Water solubility: Negligible

Partition coefficient: n-octanol/water: No data available

Viscosity, kinematic:
0.503 cSt
at 20 °C (68 °F)

Relative vapor density:
3
(Air = 1.0)

Evaporation rate: 1

Percent volatile: > 99 %

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

Conditions to avoid: No data available.

Materials to avoid: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Thermal decomposition: No data available

Hazardous decomposition products: Hydrocarbons
Carbon oxides

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

SECTION 11: Toxicological information

PRF Isooctane + TEL
Acute oral toxicity: LD50: > 2,000 mg/kg
Species: Rat
Method: Acute toxicity estimate

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### Acute inhalation toxicity

**PRF Isooctane + TEL**

- **LC50**: > 40 mg/l
- **Exposure time**: 4 h
- **Species**: Rat
- **Test atmosphere**: vapor
- **Method**: Acute toxicity estimate

### Acute dermal toxicity

**PRF Isooctane + TEL**

- **LD50 Dermal**: > 5,000 mg/kg
- **Species**: Rabbit
- **Method**: Acute toxicity estimate

### Skin irritation

**PRF Isooctane + TEL**

- **Irritating to skin**.

### Eye irritation

**PRF Isooctane + TEL**

- **May cause eye irritation**.

### Sensitization

**PRF Isooctane + TEL**

- **Does not cause skin sensitization**.
  - Information refers to the main ingredient.

### 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
- **NOEL**: 8.117 mg/l 2220 ppm
- **Method**: OECD Guideline 413
  - Information given is based on data obtained from similar substances.

**Tetraethyl Lead**

- **Species**: Monkey, Male and female
- **Sex**: Male and female
- **Application Route**: Oral gavage
- **Dose**: 0.009 mg TEL/kg/bw/day
- **Exposure time**: 6 months
- **Number of exposures**: Once per day, 7 d/wk
- **NOEL**: 0.009 mg/kg

**Species**: Rat, male

- **Sex**: male
- **Application Route**: Oral gavage
- **Dose**: 0, 0.2, 2.0 mg/kg/bw
- **Exposure time**: 13 wk
- **Number of exposures**: Once per day, 5 d/wk
- **Lowest observable effect level**: 0.2 mg/kg
- **Target Organs**: Nervous system, Blood

### Reproductive toxicity

**2,2,4-Trimethylpentane**

- **Species**: Rat
(Isooctane) 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.

Tetraethyl Lead
Species: Rat
Application Route: oral gavage
Dose: 0, 0.01, 0.1, 1, 10 mg/kg
Test period: GD 6-16
NOAEL Teratogenicity: 0.1 mg/kg
NOAEL Maternal: 0.1 mg/kg

PRF Isooctane + TEL
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.

Tetraethyl Lead
Reproductive toxicity: Positive evidence of adverse effects on sexual function, fertility and/or development from human epidemiological studies.
PRF Isooctane + TEL

Further information

Concentrations substantially above the TLV value may cause narcotic effects. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Solvents may degrease the skin. Lead compounds may be absorbed by ingestion, by inhalation and through 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.

Tetraethyl Lead

LC50: 0.2 mg/l
Exposure time: 96 h
Species: Lepomis macrochirus (Bluegill sunfish)

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): NOEL: 0.17 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
Information given is based on data obtained from similar substances.

Elimination information (persistence and degradability)

Biodegradability: Expected to be ultimately biodegradable
Information given is based on data obtained from similar substances.

Ecotoxicology Assessment

SDS Number: 100000014063 10/15
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PRF Isooctane + TEL

Version 1.3

Revision Date 2018-06-04

Acute aquatic toxicity : Very toxic to aquatic life.
Chronic aquatic toxicity : 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 : 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-TRIMETHYL-PENTANE (ISO-OCTANE), TETRAETHYL LEAD), RQ (2,2,4-TRIMETHYL-PENTANE (ISO-OCTANE), TETRAETHYL LEAD)

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)
UN1262, OCTANES, 3, II, (-12.22 °C), MARINE POLLUTANT, (2,2,4-TRIMETHYL-PENTANE (ISO-OCTANE), TETRAETHYL LEAD)

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-
TRIMETHYL-PENTANE (ISO-OCTANE), TETRAETHYL LEAD

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))
UN1262, OCTANES, 3, II, ENVIRONMENTALLY HAZARDOUS, (2,2,4-TRIMETHYL-PENTANE (ISO-OCTANE), TETRAETHYL LEAD)

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)
UN1262, OCTANES, 3, II, ENVIRONMENTALLY HAZARDOUS, (2,2,4-TRIMETHYL-PENTANE (ISO-OCTANE), TETRAETHYL LEAD)

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 : Flammable (gases, aerosols, liquids, or solids)  
Skin corrosion or irritation  
Reproductive toxicity  
Specific target organ toxicity (single or repeated exposure)  
Aspiration hazard

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO – KNOW

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

SARA 302 Reportable Quantity : 
Tetraethyl Lead

SARA 302 Threshold Planning Quantity : 
Tetraethyl Lead 78-00-2 100 lbs

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

SDS Number: 100000014063 12/15
Ozone-Depletion : 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).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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).

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

Pennsylvania Right To Know : 2,2,4-Trimethylpentane (Isooctane) - 540-84-1
                        Tetraethyl Lead - 78-00-2

New Jersey Right To Know : 2,2,4-Trimethylpentane (Isooctane) - 540-84-1
                        Tetraethyl Lead - 78-00-2

California Prop. 65 Ingredients : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Notification status
Europe  REACH : 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.

United States of America (USA) TSCA : On the inventory, or in compliance with the inventory
Canada  DSL : On the inventory, or in compliance with the inventory
Australia  AICS : On the inventory, or in compliance with the inventory
New Zealand  NZIoC : On the inventory, or in compliance with the inventory
Japan  ENCS : Not in compliance with the inventory
Korea  KECI : On the inventory, or in compliance with the inventory
Philippines  PICCS : On the inventory, or in compliance with the inventory
China  IECSC : On the inventory, or in compliance with the inventory
NFPA Classification: Health Hazard: 2
Fire Hazard: 3
Reactivity Hazard: 0

Further information
Legacy SDS Number: 38510

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>ACGIH</td>
</tr>
<tr>
<td>LD50</td>
</tr>
<tr>
<td>AICS</td>
</tr>
<tr>
<td>LOAEL</td>
</tr>
<tr>
<td>DSL</td>
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</tr>
<tr>
<td>CNS</td>
</tr>
<tr>
<td>NTP</td>
</tr>
<tr>
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