Material Name: Stanadyne Performance Formula® Injector Cleaner

** * * * SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION * * * **

PRODUCT NUMBERS: 43562 (8oz./237ml); 43564 (16oz./473ml); 43566 (32oz./946ml)
CHEMICAL NAME: Mixture
PRODUCT USE: Diesel Fuel Additive
COMPANY INFORMATION:
Parker Engine Mobile Aftermarket Division
4400 Highway 30 E
Kearney, NE 68847 U.S.A.
Phone: 1-800-842-2496
Emergency #: CHEMTREC 1-800-424-9300

** * * * SECTION 2 – HAZARDS IDENTIFICATION * * * **

A. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:
- Flammable Liquid 4 H227 Combustible liquid.
- Skin Corrosion/Irritation 2 H315 Causes skin irritation.
- Eye Damage/Irritation 2 H319 Causes serious eye irritation.
- STOT-SE 3 H336 May cause drowsiness or dizziness.
- Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways.

OSHA defined hazards: None

B. LABEL ELEMENTS
1. OSHA

Danger

Combustible liquid. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.

Keep away from flames and hot surfaces. No smoking. Wear protective gloves/eye protection. Wash thoroughly after handling. Avoid breathing mist/vapors/spray. Use only outdoors or in a well-ventilated area.

IF SWALLOWED: Immediately call a poison center or doctor. Do not induce vomiting.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice. Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
Safety Data Sheet

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Store locked up. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national regulations.

OTHER HAZARDS:
None identified.

2. CONSUMER PRODUCTS

Front: DANGER: HARMFUL OR FATAL IF SWALLOWED. CAUSES SKIN AND EYE IRRITATION. KEEP OUT OF REACH OF CHILDREN. SEE BACK PANEL FOR ADDITIONAL PRECAUTIONS.

Back: Hazards: Contains petroleum distillates, 2-ethylhexyl nitrate and 2-ethylhexanol. Harmful or fatal if swallowed. Causes skin and eye irritation. May cause drowsiness or dizziness. Precaution: Keep away from heat or flame. Avoid swallowing, contact with eyes or skin, or breathing vapor. Wash immediately after contact. Use in well ventilated area. First Aid: If swallowed, do not induce vomiting – Call physician immediately. In case of contact, flush eyes with water and wash skin with soap and water. If eye discomfort persists, contact a physician. If affected by vapor, get fresh air – Call physician if symptoms persist.

* * * SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS * * *

<table>
<thead>
<tr>
<th>CAS #</th>
<th>CHEMICAL NAME</th>
<th>PERCENT (w/w)</th>
<th>INGREDIENT CLASSIFICATION*</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-47-8</td>
<td>Distillates, petroleum, hydrotreated light</td>
<td>40-60</td>
<td>Flam. Liq. 4 – H227; Skin Irrit. 2 – H315; STOT SE 3 – H336; Asp. 1 – H304; Aquatic Chron. 2 – H411</td>
</tr>
<tr>
<td>27247-96-7</td>
<td>2-Ethylhexyl nitrate</td>
<td>10-20</td>
<td>Acute Tox. 4 – H302, H312 &amp; H332; Aquatic Chron. 2 – H411</td>
</tr>
<tr>
<td>104-76-7</td>
<td>2-Ethylhexanol</td>
<td>5-10</td>
<td>Acute Tox. 4 – H332; Skin Irrit. 2 – H315; Eye Irrit. 2 – H319; STOT-SE 3 – H335</td>
</tr>
</tbody>
</table>

COMPONENT RELATED REGULATORY INFORMATION
This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). The exact concentrations of one or more of the above listed components are being withheld as a trade secret.

* * * SECTION 4 - FIRST AID MEASURES * * *

DESCRIPTION OF FIRST AID MEASURES:

Eyes
Quickly and gently blot away excess chemical. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes or until the chemical is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Seek immediate medical attention.

Skin
Remove contaminated clothing. Quickly and gently blot away excess chemical. Wash gently and thoroughly with warm water and non-abrasive soap for 15 minutes or until the chemical is removed. Get medical attention if skin disorder develops.
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Ingestion
Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 8 to 10 oz. of water to dilute material in stomach. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Repeat administration of water. Seek immediate medical attention or advice.

Inhalation
If affected, remove source of contamination or move individual to fresh air. If the affected person is not breathing, trained personnel should begin artificial respiration immediately. Seek medical attention if symptoms persist. If overcome by vapor from hot product, immediately remove to fresh air and call a physician.

**MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:**

Potential Health Effects: Eyes
This product is irritating to the eyes. Effects may include a burning sensation, redness, swelling and/or blurred vision.

Potential Health Effects: Skin
This product is irritating to the skin. Prolonged or repeated contact with this product may dry and/or defat the skin. Symptoms may include redness, edema, drying or cracking of skin. See Section 11 for additional information.

Potential Health Effects: Ingestion
This product may be harmful if swallowed. May cause irritation of the mouth. Ingestion of this product may cause headache, dizziness, lack of coordination, and general weakness. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury, possibly death. See Section 11 for additional information.

Potential Health Effects: Inhalation
Inhalation of oil mists or fumes can cause irritation of the mucous membranes and upper respiratory tract. Excessive inhalation of this material causes headache, dizziness, nausea, stupor, and other central nervous system effects leading to visual impairment, difficulty breathing, memory loss, convulsions and lack of coordination. Breathing of vapor or mist may aggravate asthma and inflammatory or fibrotic pulmonary disease. See Section 11 for additional information.

**INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:**
Pulmonary aspiration hazard if swallowed; treat symptomatically.

* * * SECTION 5 – FIRE FIGHTING MEASURES * * *

Fire and explosion hazards are moderate when this product is exposed to heat or flame. Liquid can burn upon heating to temperatures at or above the flash point. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back.

**EXTINGUISHING MEDIA**
Dry chemical, foam, carbon dioxide, water fog. Use water to cool fire-exposed containers and to protect personnel. Direct water spray or foam may cause frothing and spattering. If a leak or spill has not ignited, use water spray to disperse vapors and to flush spills away from exposure.
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SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE
Irritating and toxic gases or fumes may be released during a fire. Upon combustion, this product may yield oxides of nitrogen, carbon monoxide, carbon dioxide, and/or other low molecular weight hydrocarbons.

ADVICE FOR FIREFIGHTERS
Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

NFPA RATINGS: Health: 2 Fire: 2 Reactivity: 0 Other:
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** SECTION 6 – ACCIDENTAL RELEASE MEASURES ***

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
Eliminate all sources of ignition or flammables that may come into contact with a spill of this product. Surfaces may become slippery after spillage. Wear appropriate protective equipment and clothing during cleanup. Do not allow the spilled product to enter public drainage systems or open watercourses. If product is spilled, notify appropriate authorities at the local, state, federal, and provincial levels. Persons not wearing protective equipment should be excluded from area of spill until cleanup has been completed. Stop the flow of product, if this can be done without risk.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP PROCEDURES
Absorb with non-flammable suitable absorbent such as sand or earth. Scoop up used absorbent into drums or other appropriate container.

*** SECTION 7 - HANDLING AND STORAGE ***

PRECAUTIONS FOR SAFE HANDLING
Avoid prolonged or repeated skin contact with this product. Avoid getting this product into contact with your eyes. Avoid the generation of mists. Wash thoroughly after handling. Use this product with adequate ventilation. Discard any shoes or clothing items that cannot be decontaminated.

CONDITIONS FOR SAFE STORAGE (including any incompatibilities)
Do not store near heat, sparks, open flame or strong oxidizing agents. Do not store this product in open or unlabeled containers. Store drums in a covered area with secondary containment. “Empty” containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode. Follow appropriate grounding procedures.
EXPOSURE GUIDELINES
A: General Product Information
Follow all applicable exposure limits. Under conditions which may generate mists, the component supplier recommends the OSHA PEL of 5 mg/m³ and the ACGIH STEL of 10 mg/m³ for oil mists. Included below are the OSHA Vacated permissible exposure limits (PELs).

B: Component Exposure Limits

<table>
<thead>
<tr>
<th>Compound</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
<td>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td>Petroleum distillates</td>
<td>N/E</td>
<td>N/E</td>
<td>350 mg/m³ (C)</td>
<td>1800</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2000 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>N/E</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>N/E</td>
</tr>
</tbody>
</table>

(S) - skin exposure
(C) - ceiling exposure
N/E - none established

ENGINEERING CONTROLS
Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

PERSONAL PROTECTIVE EQUIPMENT
Eyes/Face
Wear safety glasses. Wear chemical goggles or face shield if mist is likely to occur.

Skin
Use impervious gloves. Wear oil-impervious garments if contact is unavoidable.

Respiratory
In the event of excessive exposure to vapors/mists/fumes, use NIOSH/OSHA approved respiratory equipment. Respirator should be selected on the basis of form and concentration of contaminant.

General
Use good hygiene when handling petroleum product. Launder contaminated clothing before reuse. Excessive misting may cause slippery floors - wear appropriate footwear. Eye wash fountains are recommended.
Effects in sensitive individuals may include a burning sensation, redness, swelling and/or blurred vision.

Potential Health Effects: Eyes upon combustion of product. This product may have adverse effects on the blood-forming system. Irritating and toxic vapors may be released.

This product is irritating to the skin and eyes. Excessive inhalation of this product causes headache, dizziness and lack of coordination. This product may cause nervous system effects including peripheral neuropathy. Components of this product may have adverse effects on the blood-forming system. Irritating and toxic vapors may be released upon combustion of product.

Potential Health Effects: Eyes
Effects in sensitive individuals may include a burning sensation, redness, swelling and/or blurred vision.
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Potential Health Effects: Skin
This product is irritating to the skin. Prolonged or repeated contact with this product may dry and/or defat the skin. Symptoms may include redness, edema, drying or cracking of skin. Product contains component(s) that can be harmful if absorbed through the skin.

Potential Health Effects: Ingestion
This product may be harmful if swallowed. May cause irritation of the mouth, gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain. Ingestion of this product may cause headache, dizziness, lack of coordination, and general weakness. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury, possibly death. Ingestion of this product may cause red blood cell hemolysis and possible liver and kidney injury.

Potential Health Effects: Inhalation
Inhalation of oil mists or fumes can cause irritation of the mucous membranes and upper respiratory tract. Excessive inhalation of this material causes headache, dizziness, nausea, stupor, and other central nervous system effects leading to visual impairment, difficulty breathing, memory loss, convulsions and lack of coordination. Repeated and prolonged overexposure to oil mists may result in droplet deposition, oil granuloma formation, inflammation and increased incidence of infection. Breathing of vapor or mist may aggravate asthma and inflammatory or fibrotic pulmonary disease. Repeated overexposure to naphthalene may cause destruction of red blood cells with anemia, fever, jaundice and kidney and liver damage.

Data and/or Acute Toxicity Estimates
No data available on product as a whole.

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent</th>
<th>LD50 – Oral (rat)</th>
<th>LD50 – Dermal (rabbit)</th>
<th>LC50 – Inhalation (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-47-8</td>
<td>Distillates, petroleum,</td>
<td>40-60</td>
<td>LD50 (rat) &gt; 5000 mg/kg</td>
<td>LD50 (rabbit) = 2000 – 4000 mg/kg</td>
<td>LC50 (rat) &gt; 4.3 mg/l</td>
</tr>
<tr>
<td></td>
<td>hydrotreated light</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27247-96-7</td>
<td>2-Ethylhexyl nitrate</td>
<td>10-20</td>
<td>LD50 (rat) &gt; 9640 mg/kg</td>
<td>LD50 (rabbit) &gt; 4820 mg/kg</td>
<td>LC50 (rat) &gt; 14 mg/l (4 hr)</td>
</tr>
<tr>
<td>104-76-7</td>
<td>2-Ethylhexanol</td>
<td>5-10</td>
<td>LD50 (rat) = 3290 mg/kg</td>
<td>LD50 (rabbit) &gt; 3000 mg/kg</td>
<td>LC50 (rat) &gt; 0.89 mg/l (4 hr)</td>
</tr>
</tbody>
</table>

One or more components have produced damage after prolonged exposure in laboratory animals to one or more of the following: kidneys, liver, spleen, blood and/or circulatory system. Naphthalene has been shown to cause cancer in laboratory animals and is classified Group 2B by IARC.
Safety Data Sheet

Material Name: Stanadyne Performance Formula® Injector Cleaner

<table>
<thead>
<tr>
<th>Category</th>
<th>Classification Based on Available Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity:</td>
<td>Conclusive but not sufficient for classification</td>
</tr>
<tr>
<td>Skin/eye irritation:</td>
<td>Skin irritation 2 (component additivity); Eye irritation (component additivity)</td>
</tr>
<tr>
<td>Corrosivity:</td>
<td>Conclusive but not sufficient for classification</td>
</tr>
<tr>
<td>Respiratory or skin sensitization:</td>
<td>Conclusive but not sufficient for classification</td>
</tr>
<tr>
<td>Germ cell mutagenicity:</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Carcinogenicity:</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Reproductive toxicity:</td>
<td>Data lacking</td>
</tr>
<tr>
<td>STOT-SE:</td>
<td>STOT 3 (CNS effects, respiratory irritation)</td>
</tr>
<tr>
<td>STOT-RE:</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Aspiration hazard:</td>
<td>Asp. 1</td>
</tr>
</tbody>
</table>

*** SECTION 12 - ECOLOGICAL INFORMATION ***

No ecotoxicity or environmental fate data available on product as a whole.

A summary of aquatic toxicity data for components of this product is available upon request.

*** SECTION 13 - DISPOSAL CONSIDERATIONS ***

US EPA WASTE NUMBER & DESCRIPTIONS
User must test waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous waste. If disposed of as shipped, this product may be considered a D001 ignitable waste.

DISPOSAL INSTRUCTIONS
Dispose of waste product according to local, state, federal, and provincial environmental regulations. Do not allow this product to drain into sewers/water supplies. Product should be recycled if possible.
General Transportation Information
NOTE: Information in this section (Section 14) is presented as a guide only. Requirements may vary depending upon package size and exceptions used, if any. Follow current, applicable requirements under DOT, TDG, IMO/IMDG, and ICAO/IATA to ensure regulatory compliance.

U.S. Department of Transportation Regulations
Ground Transportation
Non-bulk. Not regulated based on Combustible Liquid exception [49CFR 173.150(f)]. Review and follow all requirements pertaining to this exception. See also 49 CFR 171.4(c).

Canadian TDG Regulations
Ground Transportation
Non-bulk. Not regulated based on exception, Canada TDG, Part I, Section 1.33. Review and follow all requirements pertaining to this exception.

ICAO/IATA
UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (petroleum naphthas), 9, PG III

IMO/IMDG
UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (petroleum naphthas), 9, PG III, (68.0 °C c.c.),

Marine Pollutant
EmS: F-A, S-F

US Federal Regulations

A: General Product Information
Components listed in Section 3 of the SDS are present on the TSCA Inventory.
This product is a registered fuel additive (40 CFR 79) – Registration #125520013.

B: Component Analysis
This product contains the following chemicals required to be identified under SARA Section 313 (40 CFR 372.65).
None

C. Component Marine Pollutant
This material contains petroleum naphthas which is required by US DOT to be identified as marine pollutants.

Other Regulations
Components listed in Section 3 of the SDS are present on the DSL Inventories. This product has been classified in accordance with the hazard criteria required by the Canadian Hazardous Product Act and the SDS contains all the information required by the Canadian Hazardous Products Regulations.
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D. State of California Proposition 65

This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statue:

- Propylene oxide
- Ethylene oxide
- Methanol

WHMIS Classification: Flam. Liq. 4 – H227; Skin Irrit. 2 – H315; Eye Irrit. 2 – H319; STOT-SE 3 – H335 & H336; Asp. 1 – H304.

*** SECTION 16 - OTHER INFORMATION ***

OTHER INFORMATION

HAZARD STATEMENTS FROM SECTION 3

H227 – Combustible liquid.
H302 – Harmful if swallowed.
H304 – May be fatal if swallowed and enters airways.
H312 – Harmful in contact with skin.
H315 – Causes skin irritation.
H319 – Causes serious eye irritation.
H320 – Harmful if inhaled.
H335 – May cause respiratory irritation.
H336 – May cause drowsiness or dizziness.
H351 – Toxic to aquatic life with long lasting effects.

HMIS Ratings: Health: 2 Fire: 2 Reactivity: 0 Pers. Prot.: impervious gloves/safety glasses (chemical goggles if splashing is possible)

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Other Information

The information and recommendations presented in this Safety Data Sheet are based on sources believed to be reliable on the date hereof. Parker Engine Mobile Aftermarket Division makes no representation on its completeness or accuracy. This product is sold "as is" and it is the user's responsibility to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. The statements and descriptions provided are informational only and no representations or warranties, either expressed or implied, of merchantability or fitness for a particular purpose or of any other nature are made with respect to the information provided in this Safety Data Sheet or to the product to which such information refers. Parker Engine Mobile Aftermarket Division makes no representations or warranties, either expressed or implied, of merchantability or fitness for a particular purpose or of any other nature made with respect to the information provided in this Safety Data Sheet or to the product to which such information refers. Parker Engine Mobile Aftermarket Division assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.

Key/Legend

N = No; Y = Yes; ppm = parts per million; mg/m3 = milligrams per cubic meter of air; ACGIH = American Conference of Governmental Industrial Hygienists; OSHA = Occupational Safety and Health Administration; TLV = Threshold Limit Value; NIOSH = National Institute of Occupational Safety and Health; IDLH = Immediately Dangerous to Life or Health Concentrations; NTP = National Toxicology Program; IARC = International Agency for Research on Cancer; TSCA = Toxic Substance Control Act; DSL = Dangerous Substances List; EINECS = European Inventory of New and Existing Chemical Substances

Contact: For further information call 1-800-842-2496

This is the end of the SDS