

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

**Product Number** 4772  
**Product Name** Kendex 1760  
**Synonyms** Shock Fluid  
**Chemical characterization** Liquid.  
**Manufacturer, importer, supplier** American Refining Group, Inc.  
 Lubricants and Specialty Products Division  
 77 North Kendall Avenue  
 Bradford, PA 16701  
**EMERGENCY TELEPHONE NUMBER** CHEMTREC: 1-800-424-9300

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS	Chemical Name	% Weight	TSCA*	DSL - Canada*
64742-56-9	Petroleum distillates, solvent dewaxed light paraffinic	60-70	Present	Present
68649-11-6	1-Decene, dimer, hydrogenated	20-30	Present	Present
8042-47-5	White mineral oil	0-5	Present	Present
72623-86-0	Lubricating oils, petroleum, C15-30, hydrotreated neutral oil-based	0-5	Present	Present
112-80-1	Oleic acid	<0.5	Present	Present
102-82-9	Tributylamine	<0.5	Present	Present
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	<0.5	Present	Present

\* TSCA - United States - Section 8 (b) Inventory (TSCA)

\* DSL - Canada - Domestic Substances List (DSL)

OSHA - Final PEL TWA - 5mg/m3 (oil mist)

**3. HAZARDS IDENTIFICATION**

<b>Emergency Overview:</b> <ul style="list-style-type: none"> <li>Non-combustible</li> <li>This product may be irritating to skin, eyes, nose, throat, and lungs. Use all necessary personal protection when handling this material.</li> </ul>	
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<b>Eye contact</b>	<ul style="list-style-type: none"> <li>Contact with eyes may cause irritation</li> </ul>
<b>Skin contact</b>	<ul style="list-style-type: none"> <li>Prolonged or repeated exposure may cause irritation.</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>Avoid breathing vapors or mists</li> <li>Inhalation may cause mild irritation of respiratory tract.</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>Ingestion may cause nausea, vomiting, and diarrhea.</li> <li>If symptoms persist seek medical attention.</li> </ul>
<b>General advice</b>	<ul style="list-style-type: none"> <li>As with any chemical, use caution when handling product.</li> </ul>

**4. FIRST AID MEASURES**

<b>General advice</b>	<ul style="list-style-type: none"> <li>Immediate medical attention is not required</li> <li>If exposure symptoms persist, seek medical attention.</li> <li>Show this safety data sheet to the doctor in attendance</li> </ul>
<b>Skin contact</b>	<ul style="list-style-type: none"> <li>Immediate medical attention is not required</li> </ul>

	<ul style="list-style-type: none"> <li>Wash off immediately with soap and plenty of water.</li> <li>Seek medical attention if effects persists.</li> </ul>
<b>Eye contact</b>	<ul style="list-style-type: none"> <li>Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes</li> <li>Keep eye wide open while rinsing</li> <li>If exposure symptoms persist, seek medical attention.</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>Immediate medical attention is not required</li> <li>Move to fresh air in case of accidental inhalation of vapours or decomposition products</li> <li>If exposure symptoms persist, seek medical attention.</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>Do not swallow. Rinse mouth with water and afterwards drink plenty of water.</li> <li>Do not induce vomiting without medical advice</li> <li>Never give anything by mouth to an unconscious person</li> <li>Consult a physician</li> </ul>
<b>Notes to physician</b>	<ul style="list-style-type: none"> <li>Treat symptomatically</li> </ul>
<b>Protection of first-aiders</b>	<ul style="list-style-type: none"> <li>Use necessary personal protective equipment</li> </ul>
<b>Aggravated Medical Conditions</b>	<ul style="list-style-type: none"> <li>Users with skin conditions (eczema, psoriasis, etc.) respiratory conditions (asthma, bronchitis, emphysema, etc.) or with chemical sensitivities should take protective precautions.</li> </ul>

### 5. FIRE-FIGHTING MEASURES

<b>Flash point</b>	<ul style="list-style-type: none"> <li>154°C/309°F</li> </ul>
<b>Suitable extinguishing media</b>	<ul style="list-style-type: none"> <li>carbon dioxide (CO<sub>2</sub>)</li> <li>water fog</li> <li>alcohol-resistant foam</li> <li>dry chemical</li> </ul>
<b>Specific hazards</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Extinguishing media which must not be used for safety reasons</b>	<ul style="list-style-type: none"> <li>Water, except as fog</li> </ul>
<b>Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases</b>	Keep product and empty container away from heat and sources of ignition.
<b>Special protective equipment for firefighters</b>	<ul style="list-style-type: none"> <li>As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear</li> </ul>
<b>Specific methods</b>	<ul style="list-style-type: none"> <li>In the event of fire, cool tanks with water spray</li> <li>Use spark-proof tools and explosion-proof equipment</li> <li>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations</li> </ul>
<b>NFPA (National Fire Protection Association)</b>	<ul style="list-style-type: none"> <li>Health=0, Fire=1, Reactivity=0, Special=0</li> </ul>

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	<ul style="list-style-type: none"> <li>Evacuate personnel to safe areas</li> <li>Keep people away from and upwind of spill/leak</li> <li>Take precautionary measures against static discharges</li> <li>Wear personal protective equipment</li> <li>Pay attention to flashback</li> <li>Remove all sources of ignition</li> </ul>
<b>Environmental precautions</b>	<ul style="list-style-type: none"> <li>Prevent further leakage or spillage if safe to do so</li> <li>Prevent product from entering drains</li> </ul>
<b>Methods for cleaning up</b>	<ul style="list-style-type: none"> <li>Dam up</li> <li>Soak up with inert absorbent material</li> <li>Pick up and transfer to properly labelled container for disposal.</li> </ul>

	<ul style="list-style-type: none"> <li>● Take precautionary measures against static discharges</li> <li>● Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container</li> </ul>
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## 7. HANDLING AND STORAGE

### Handling

<b>Technical measures/Precautions</b>	<ul style="list-style-type: none"> <li>● Use only in areas provided with adequate ventilation.</li> <li>● To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded</li> <li>● Keep away from open flames, hot surfaces and sources of ignition</li> </ul>
<b>Safe handling advice</b>	<ul style="list-style-type: none"> <li>● Wear personal protective equipment</li> <li>● Do not breathe vapours or spray mist. Ensure that ventilation is adequate before using this product.</li> </ul>

### Storage

<b>Technical measures/Precautions</b>	<ul style="list-style-type: none"> <li>● Keep containers tightly closed; discard any material that may be contaminated or, which may have changed composition.</li> <li>● Keep away from heat</li> <li>● Keep in properly labelled containers.</li> </ul>
<b>Incompatible products</b>	<ul style="list-style-type: none"> <li>● No information available</li> </ul>

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering measures</b>	<ul style="list-style-type: none"> <li>● Ensure adequate ventilation, especially in confined areas</li> </ul>
<b>Personal protective equipment</b>	
<b>Hand protection</b>	<ul style="list-style-type: none"> <li>● Impervious gloves</li> </ul>
<b>Eye protection</b>	<ul style="list-style-type: none"> <li>● Wear tightly fitting safety goggles or safety glasses with side-shields</li> </ul>
<b>Respiratory protection</b>	<ul style="list-style-type: none"> <li>● In case of insufficient ventilation, wear suitable respiratory equipment</li> </ul>
<b>Skin and body protection</b>	<ul style="list-style-type: none"> <li>● Long sleeved clothing</li> </ul>
<b>Hygiene measures</b>	<ul style="list-style-type: none"> <li>● Handle in accordance with good industrial hygiene and safety practice</li> <li>● Keep away from food, drink and animal feeding stuffs</li> <li>● When using, do not eat, drink or smoke</li> </ul>
<b>Environmental exposure controls</b>	<ul style="list-style-type: none"> <li>● No information available</li> </ul>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

<b>Form</b>	Liquid.
<b>Colour</b>	Amber.
<b>Odour</b>	Hydrocarbon oil.

### Important Health Safety and Environmental Information

<b>Boiling Point</b>	330°C / 625°F
<b>Pour Point</b>	-48°C / -54°F
<b>Vapor Pressure</b>	No information available.
<b>Density</b>	6.9 lbs/gallon
<b>Vapour density</b>	No information available.
<b>Water solubility</b>	Insoluble.
<b>Specific Gravity</b>	0.84.

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	<ul style="list-style-type: none"> <li>● Stable under normal conditions</li> <li>● Polymerization does not occur</li> </ul>
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## 15. REGULATORY INFORMATION

### U.S. Inventories

CAS	Chemical Name	% Weight	TSCA*
64742-56-9	Petroleum distillates, solvent dewaxed light paraffinic	60-70	Present
68649-11-6	1-Decene, dimer, hydrogenated	20-30	Present
8042-47-5	White mineral oil	0-5	Present
72623-86-0	Lubricating oils, petroleum, C15-30, hydrotreated neutral oil-based	0-5	Present
112-80-1	Oleic acid	<0.5	Present
102-82-9	Tributylamine	<0.5	Present
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	<0.5	Present

\* TSCA - United States - Section 8 (b) Inventory (TSCA)

### International Inventories

CAS	Chemical Name	% Weight	DSL - Canada*	EINECS*	ECL*	ENCS*	IECS - Inventory of Existing Chemical Substances*	AICS - Australia*	PICCS*
64742-56-9	Petroleum distillates, solvent dewaxed light paraffinic	60-70	Present	265-159-2	KE-12609	N/A	Present	Present	Present
68649-11-6	1-Decene, dimer, hydrogenated	20-30	Present	N/A	KE-09501	N/A	Present	Present	Present
8042-47-5	White mineral oil	0-5	Present	232-455-8	KE-35412	N/A	Present	Present	Present
72623-86-0	Lubricating oils, petroleum, C15-30, hydrotreated neutral oil-based	0-5	Present	276-737-9	KE-22620	N/A	Present	Present	Present
112-80-1	Oleic acid	<0.5	Present	204-007-1	KE-26450	2-609; 2-975	Present	Present	Present
102-82-9	Tributylamine	<0.5	Present	203-058-7	KE-09973	2-142	Present	Present	Present
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	<0.5	Present	272-028-3	KE-28667	N/A	Present	Present	Present

\* DSL - Canada - Domestic Substances List (DSL)

\* EINECS - European Inventory of Existing Commercial Substances (EINECS)

\* ECL - Korea - Existing and Evaluated Chemical Substances (ECL)

\* ENCS - Japan Existing and New Chemical Substances (ENCS)

\* IECS - Inventory of Existing Chemical Substances - China

\* AICS - Australia - Inventory of Chemical Substances (AICS)

\* PICCS - Philippines - Inventory of Chemicals and Chemical Substances (PICCS)

CAS	Chemical Name	% Weight	US TSCA	DSL	EINECS*	ECL*	ENCS*	IECS*	AICS*	PICCS*
T/S	Friction Modifier	0-1	All components of this material are on the US TSCA Invent	All components are in compliance with the Canadian	All components are in compliance with the EC Seventh	All components are in compliance in Korea	No information	No information	All components are in compliance with the chemical	All components are in compliance with the Philippines

			ory or are exempt	Environment Protection Act and are present on the Domestic Substances List	amendment Directive 92/32/EEC				notification requirements in Australia	Toxic Substances and Hazardous and Nuclear Waste Control Act of 1990
T/S	Alkyl Phenol	<0.5	All components of this material are on the US TSCA Inventory or are exempt	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List	All components are in compliance with the EC Seventh amendment Directive 92/32/EEC	All components are in compliance in Korea	All components are in compliance with the Chemical Substances Control Act of Japan	All components of this product are listed on the Inventory of Existing Chemical Substances in China	All components are in compliance with the chemical notification requirements in Australia	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Waste Control Act of 1990

\* EINECS - European Inventory of Existing Commercial Substances (EINECS)

\* ECL - Korea - Existing and Evaluated Chemical Substances (ECL)

\* ENCS - Japan Existing and New Chemical Substances (ENCS)

\* IECS - Inventory of Existing Chemical Substances - China

\* AICS - Australia - Inventory of Chemical Substances (AICS)

\* PICCS - Philippines - Inventory of Chemicals and Chemical Substances (PICCS)

## 16. OTHER INFORMATION

### Prepared By

Monica C. Mathers, Product Safety Steward Leader.

### Notice

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

End of Safety Data Sheet