



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Common Name	CASTROL AERO 40 RED	Code	<input checked="" type="checkbox"/> 7028-BW
Supplier	<input checked="" type="checkbox"/> Air BP Lubricants Maple Plaza II -1N, Six Campus Drive Parsippany, NJ 07054 U.S.A. Product Information: (866) 4 BP - MSDS (866) 427 - 6737	Validation Date	04/24/2003
Synonym	<input checked="" type="checkbox"/> Not available.	Print Date	04/24/2003
Trade name	<input checked="" type="checkbox"/> Not available.	Responsible Name	Product Stewardship
Material Uses	<input checked="" type="checkbox"/> Industrial applications	In Case of Emergency	<input checked="" type="checkbox"/> HEMTREC (800) 424-9300
Manufacturer	<input checked="" type="checkbox"/> Air BP Lubricants Maple Plaza II - 1N, Six Campus Drive Parsippany, NJ 07054 U.S.A.		

Section 2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
<input checked="" type="checkbox"/> DISTILLATES PETROLEUM, HYDROTREATED LIGHT NAPHTHENIC	64742-53-6	5-10	ACGIH TLV (United States). TWA: 5 mg/m ³ 8 hour(s). Form: Mist OSHA PEL (United States). TWA: 5 mg/m ³ 8 hour(s). Form: Mist
DISTILLATES, PETROLEUM, HYDROTREATED MIDDLE	64742-46-7	80-85	ACGIH TLV (United States). STEL: 10 mg/m ³ 15 minute(s). Form: Mist ACGIH (United States). TWA: 5 mg/m ³ 8 hour(s). Form: Mist OSHA (United States). TWA: 5 mg/m ³ 8 hour(s). Form: Mist
9-OCTADECENOIC ACID (Z)-, METHYL ESTER	112-62-9	1-5	ACGIH (United States). STEL: 10 mg/m ³ 15 minute(s). Form: Mist OSHA PEL (United States, 1971). TWA: 5 MGM3 8 hour(s). Form: Respirable fraction TWA: 15 MGM3 8 hour(s). Form: Total dust

Section 3. Hazards Identification

Physical state / Appearance	<input checked="" type="checkbox"/> Liquid.
Mild. Odor	<input checked="" type="checkbox"/> Mild. Odor
Clear. Red. Liquid.	<input checked="" type="checkbox"/> Clear. Red. Liquid.
Emergency Overview	<input checked="" type="checkbox"/> CAUTION! <input checked="" type="checkbox"/> MAY CAUSE EYE AND SKIN IRRITATION. <input checked="" type="checkbox"/> MIST: MAY CAUSE RESPIRATORY TRACT IRRITATION. <input checked="" type="checkbox"/> Avoid contact with skin and eyes. Wash thoroughly after handling. Do not ingest. However, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum.
Routes of Entry	<input checked="" type="checkbox"/> Skin Contact. <input checked="" type="checkbox"/> Eye contact. <input checked="" type="checkbox"/> Inhalation. <input checked="" type="checkbox"/> Ingestion.
Potential Acute Health Effects	Eyes <input checked="" type="checkbox"/> May cause eye irritation.

Continued on Next Page

Skin May cause skin irritation.

Inhalation Vapor: Solution may cause irritation of mouth, throat, and esophagus. High vapor concentrations can cause headaches, dizziness, drowsiness, and nausea, and may lead to unconsciousness. Vapor: Prolonged repeated exposure may cause chemical pneumonitis.

Ingestion Oral LD50: Not established. Ingestion may cause gastrointestinal irritation and diarrhea.

No additional remark.

Potential Chronic Health Effects

Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
CARCINOGENIC EFFECTS: No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).
MUTAGENIC EFFECTS: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.
TERATOGENIC EFFECTS: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

Medical Conditions Aggravated by Overexposure:

Repeated or prolonged exposure is not known to aggravate medical condition.

Overexposure /Signs/Symptoms

Not available.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact

Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.

Skin Contact

Wash contaminated skin with soap and water. Get medical attention if irritation develops. Wash clothing before reuse.

Inhalation

Breathing difficulty or Respiratory tract irritation: Remove to fresh air. If the victim is not breathing, perform mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion

Affected person is conscious, give plenty of water to drink. NEVER give an unconscious person anything to ingest. Do not induce vomiting. ASPIRATION HAZARD. If vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention immediately.

Notes to Physician

Not available.

Section 5. Fire Fighting Measures

Flammability of the Product

May be combustible at high temperature.

Autoignition temperature

Not available.

Flash Point

OPEN CUP: 104.44°C (220°F) (Cleveland.).

Flammable Limits

Not available.

Products of Combustion

These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances

Slightly flammable to flammable in presence of open flames, sparks and static discharge, of shocks, of heat, of oxidizing materials.

Explosion Hazards in Presence of Various Substances

This material is not explosive as defined by established regulatory criteria.

Fire Fighting Media and Instructions

SMALL FIRE: Use DRY chemical powder.
 LARGE FIRE: Use water spray, fog or foam.

Cool closed containers exposed to fire with water. Hot containers may explode. Use water spray to keep fire exposed containers cool. Do not use water jet.

Protective Clothing (Fire) Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Special Remarks on Fire Hazards None identified.

Special Remarks on Explosion Hazards None identified.

Section 6. Accidental Release Measures

Small Spill and Leak Absorb with an inert material and put the spilled material in an appropriate waste disposal. Do not allow any potentially contaminated water including rain water, runoff from fire fighting or spills to enter any waterway, sewer or drain.

Large Spill and Leak Absorb with an inert material and put the spilled material in an appropriate waste disposal. Do not allow any potentially contaminated water including rain water, runoff from fire fighting or spills to enter any waterway, sewer or drain.

Section 7. Handling and Storage

Aerosol.: Over-exposure by inhalation may cause respiratory irritation. However, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum. Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Keep container tightly closed. Keep container in a cool, well-ventilated area. Empty containers may contain harmful, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards.

Section 8. Exposure Controls and Personal Protection

Engineering Controls **Aerosol.:** Over-exposure by inhalation may cause respiratory irritation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. However, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum.

Personal Protection

Eyes Safety glasses with side shields. OR Chemical splash goggles.

Body Avoid prolonged or repeated contact with skin. Wear clothing and footwear that cannot be penetrated by chemicals or oil.

Respiratory A respirator is not needed under normal and intended conditions of product use. Wear appropriate respirator when ventilation is inadequate.

Hands Impervious gloves.

Feet Not applicable.

Protective Clothing (Pictograms)



Personal Protection in Case of a Large Spill Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name

Exposure Limits

DISTILLATES PETROLEUM, HYDROTREATED LIGHT NAPHTHENIC

ACGIH TLV (United States).
TWA: 5 mg/m³ 8 hour(s). Form: Mist

OSHA PEL (United States).
TWA: 5 mg/m³ 8 hour(s). Form: Mist

ACGIH TLV (United States).
STEL: 10 mg/m³ 15 minute(s). Form: Mist

DISTILLATES, PETROLEUM, HYDROTREATED MIDDLE

ACGIH (United States).
TWA: 5 mg/m³ 8 hour(s). Form: Mist

OSHA (United States).
TWA: 5 mg/m³ 8 hour(s). Form: Mist

ACGIH (United States).
STEL: 10 mg/m³ 15 minute(s). Form: Mist

9-OCTADECENOIC ACID (Z)-, METHYL ESTER

OSHA PEL (United States, 1971).
TWA: 5 MGM3 8 hour(s). Form: Respirable fraction

TWA: 15 MGM3 8 hour(s). Form: Total dust

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical state / Appearance	<input checked="" type="checkbox"/> Liquid.	Odor	<input checked="" type="checkbox"/> Mild. Odor
Boiling/Condensation Point	<input checked="" type="checkbox"/> Not available.	Taste	<input checked="" type="checkbox"/> Not available.
Melting/Freezing Point	<input checked="" type="checkbox"/> Not available.	Color	<input checked="" type="checkbox"/> Clear. Red. Liquid.
pH (Concentration)	<input checked="" type="checkbox"/> Not applicable.		
pH Dilution % and Value	<input checked="" type="checkbox"/> Not available.		
Critical Temperature	<input checked="" type="checkbox"/> Not available.		
Specific Gravity	<input checked="" type="checkbox"/> 0.67 to 1.07 (Water = 1)		
Vapor Pressure	<input checked="" type="checkbox"/> Not available.		
Vapor Density	<input checked="" type="checkbox"/> Not available.		
Volatility	<input checked="" type="checkbox"/> Not available.		
Odor Threshold	<input checked="" type="checkbox"/> Not available.		
Evaporation Rate	<input checked="" type="checkbox"/> Not available.		
VOC	<input checked="" type="checkbox"/> Not available.	VOC Method	<input checked="" type="checkbox"/> Not available.
Viscosity	<input checked="" type="checkbox"/> Kinetic (40C): 13 cSt		
Solubility	<input checked="" type="checkbox"/> Insoluble in cold water.		
Physical Chemical Comments	<input checked="" type="checkbox"/> Not available.		

Section 10. Stability and Reactivity

Stability and Reactivity	<input checked="" type="checkbox"/> The product is stable.
Conditions of Instability	<input checked="" type="checkbox"/> Avoid excessive heat.
Incompatibility with Various Substances	<input checked="" type="checkbox"/> Strong oxidizing materials
Hazardous Decomposition Products	<input checked="" type="checkbox"/> carbon oxides (CO, CO ₂), sulfur oxides (SO ₂ , SO ₃ ...), nitrogen oxides (NO, NO ₂ ...)
Hazardous Polymerization	<input checked="" type="checkbox"/> Will not occur.

Section 11. Toxicological Information

<p>Toxicity to Animals</p>	<p><input checked="" type="checkbox"/> D50: Not available. LC50: Not available.</p>
<p>Chronic Effects on Humans</p>	<p><input checked="" type="checkbox"/> Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. CARCINOGENIC EFFECTS: No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA). MUTAGENIC EFFECTS: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen. TERATOGENIC EFFECTS: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic. REPRODUCTIVE EFFECTS: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a reproductive toxin.</p>
<p>Other Toxic Effects on Humans</p>	<p><input checked="" type="checkbox"/> No specific information is available in our database regarding the other toxic effects of this material for humans.</p>
<p>Special Remarks on Toxicity to Animals</p>	<p><input checked="" type="checkbox"/> No additional remark.</p>
<p>Special Remarks on Chronic Effects on Humans</p>	<p><input checked="" type="checkbox"/> No additional remark.</p>
<p>Special Remarks on Other Toxic Effects on Humans</p>	<p><input checked="" type="checkbox"/> No additional remark.</p>

Section 12. Ecological Information

<p>Ecotoxicity</p>	<p><input checked="" type="checkbox"/> Not determined.</p>
<p>BOD and COD</p>	<p><input checked="" type="checkbox"/> Not determined.</p>
<p>Biodegradable/OECD</p>	<p><input checked="" type="checkbox"/> Not determined.</p>
<p>Mobility</p>	<p><input checked="" type="checkbox"/> Not determined.</p>
<p>Products of Degradation</p>	<p><input checked="" type="checkbox"/> carbon oxides (CO, CO2), sulfur oxides (SO2, SO3...), nitrogen oxides (NO, NO2...)</p>
<p>Toxicity of the Products of Biodegradation</p>	<p><input checked="" type="checkbox"/> Not determined.</p>
<p>Special Remarks on the Products of Biodegradation</p>	<p><input checked="" type="checkbox"/> No additional remark.</p>

Section 13. Disposal Considerations

<p>Waste Information</p>	<p><input checked="" type="checkbox"/> Waste must be disposed of in accordance with federal, state and local environmental control regulations. Keep out of waterways. Disposal of this material to the land may be banned by federal law (40 CFR 268).</p>
<p>RCRA Waste Code(s)</p>	<p>USED OIL</p>
<p>Waste Stream</p>	<p><input checked="" type="checkbox"/> Not determined.</p>
<p>Consult your local or regional authorities.</p>	

Section 14. Transport Information

<p>DOT Classification</p>	<p><input checked="" type="checkbox"/> Not a DOT controlled material (United States).</p>	<div style="border: 1px solid black; width: 150px; height: 40px;"></div>
<p><input checked="" type="checkbox"/></p>		

Marine Pollutant	<input checked="" type="checkbox"/> Not pollutant.	
Special Provisions for Transport	<input checked="" type="checkbox"/> Petroleum oil, not regulated in containers less than 3500 gallons.	
ADR/RID Classification	<input checked="" type="checkbox"/> Not determined.	
IMO/IMDG Classification	<input checked="" type="checkbox"/> Not determined.	
ICAO/IATA Classification	<input checked="" type="checkbox"/> Not determined.	

Section 15. Regulatory Information

U.S. Federal Regulations	<p><input checked="" type="checkbox"/> SCA 8(d) H and S data reporting: PHOSPHORIC ACID, (1,1-DIMETHYLETHYL)PHENYL DIPHENYL ESTER: 1982; TRIPHENYL PHOSPHATE: 1982; PHENOL, 4-(1,1-DIMETHYLETHYL)-, PHOSPHATE (3:1): 1982</p> <p><input checked="" type="checkbox"/> SARA 302/304 emergency planning and notification: No products were found.</p> <p><input checked="" type="checkbox"/> SARA 311/312 MSDS distribution - chemical inventory - hazard identification: CASTROL AERO 40 RED: immediate health hazard.</p> <p><input checked="" type="checkbox"/> SARA 313 toxic chemical notification and release reporting: PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS 1.275%</p> <p><input checked="" type="checkbox"/> Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found.</p>
State Regulations	<p><input checked="" type="checkbox"/> Massachusetts RTK: DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC</p> <p><input checked="" type="checkbox"/> California Prop 65: WARNING! This product contains trace amounts of the following chemicals which the State of California has found to cause cancer, birth defects or other reproductive harm.: C. I. SOLVENT YELLOW 14</p>
Inventory Lists	<p><input checked="" type="checkbox"/> SCA 8(b) inventory: In compliance.</p> <p>CEPA DSL: In compliance.</p> <p>Australia (NICNAS): In compliance.</p> <p>Korea (TCCL): In compliance.</p> <p>Philippines (RA6969): Not listed.</p> <p>MITI: In compliance.</p> <p>EINECS: In compliance.</p>

Section 16. Other Information

Label Requirements MAY CAUSE EYE AND SKIN IRRITATION.
 MIST: MAY CAUSE RESPIRATORY TRACT IRRITATION.

Hazardous Material Information System (U.S.A.)

Health	1
Fire Hazard	1
Reactivity	0
Personal Protection	b

National Fire Protection Association (U.S.A.)



References Not available.

Other Special Considerations PETROLEUM OIL: STEL = 10 mg/M3. Using terminology of the International Agency for Research on Cancer (IARC), the petroleum distillates listed in Section II are classified by the supplier as severely processed. Not all those listed in Section II may be present. The supplier has stated that these distillates do not require a carcinogen label as defined by OSHA 29 CFR 1910.1200.

Validated by Product Stewardship on 04/24/2003.

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CHEMTREC (800) 424-9300

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.