



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Common Name	ALPHA EP 220	Code	13003-AE
Supplier	CASTROL INDUSTRIAL NORTH AMERICA INC. 1001 WEST 31ST STREET DOWNERS GROVE, IL 60515-1280 Product Information: 630 241-4000	Validation Date	05/03/2002.
Synonym	Not available.	Print Date	05/03/2002.
Trade name	ALPHA IS REGISTERD WITH THE U.S. PATENT AND TRADEMARK OFFICE.	Responsible Name	Product Stewardship
Material Uses	Gear Oils	In Case of Emergency	CHEMTREC (800) 424-9300
Manufacturer	CASTROL INDUSTRIAL NORTH AMERICA INC 1001 WEST 31ST STREET DOWNERS GROVE, IL 60515-1280		

Section 2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
RESIDUAL OILS, PETROLEUM, HYDROTREATED	64742-57-0	45-50	ACGIH (United States). TWA: 5 mg/m ³ Form: Mist OSHA (United States). TWA: 5 mg/m ³ Form: Mist ACGIH (United States). STEL: 10 mg/m ³ Form: Mist
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC	64742-54-7	45-50	ACGIH (United States). TWA: 5 mg/m ³ Form: Mist OSHA (United States). TWA: 5 mg/m ³ Form: Mist ACGIH (United States). STEL: 10 mg/m ³ Form: Mist

Section 3. Hazards Identification

Physical State and Appearance	Liquid. Slight Oily Odor Clear. Amber. Color
Emergency Overview	CAUTION! MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Potential Acute Health Effects	Eyes Moderately irritating to the eyes. Skin Moderately irritating to the skin. Inhalation Moderately irritating to the respiratory system. Ingestion Ingestion may cause gastrointestinal irritation and diarrhea. No additional remark.

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Potential Chronic Health Effects	<p>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).</p> <p>MUTAGENIC EFFECTS: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.</p> <p>TERATOGENIC EFFECTS: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.</p>
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	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
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 Points	OPEN CUP: >200°C (392°F) (Cleveland.).
Flammable Limits	Not available.
Products of Combustion	carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...), sulfur oxides (SO ₂ , SO ₃ ...).
Fire Hazards in Presence of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	Non-explosive in presence of open flames, sparks and static discharge, of shocks, of heat.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet. Cool closed containers exposed to fire with water.
Protective Clothing (Fire)	Be sure to use an approved/certified respirator or equivalent.
Special Remarks on Fire Hazards	No additional remark.
Special Remarks on Explosion Hazards	No additional remark.

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Section 6. Accidental Release Measures

Small Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Keep out of waterways. Dispose of according to all federal, state and local applicable regulations.
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. Dispose of according to all federal, state and local applicable regulations.

Section 7. Handling and Storage

Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapor or mist. Bring product to room temperature before use. Keep container closed. Wash thoroughly after handling.

Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store near heat, flame or strong oxidizing agents. 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, Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
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Personal Protection

Eyes Splash goggles.

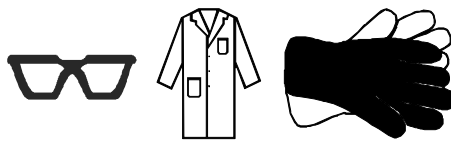
Body Lab coat.

Respiratory A respirator is not needed under normal and intended conditions of product use. If ventilation is inadequate, use a NIOSH certified respirator with an organic vapor cartridge and P95 particulate filter.

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.
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Product Name

RESIDUAL OILS, PETROLEUM, HYDROTREATED

Exposure Limits

ACGIH (United States).

TWA: 5 mg/m³ Form: Mist **OSHA (United States).**

TWA: 5 mg/m³ Form: Mist **ACGIH (United States).**

STEL: 10 mg/m³ Form: Mist

ACGIH (United States).

TWA: 5 mg/m³ Form: Mist **OSHA (United States).**

TWA: 5 mg/m³ Form: Mist **ACGIH (United States).**

STEL: 10 mg/m³ Form: Mist

DISTILLATES, PETROLEUM, HYDROTREATED
HEAVY PARAFFINIC

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Slight Oily Odor
Boiling/Condensation Point	Not available.	Taste	Not available.
Melting/Freezing Point	Not available.	Color	Clear. Amber. Color
pH Concentrate	Not applicable.		
pH Dilution % and Value	Not applicable.		
Critical Temperature	Not available.		
Specific Gravity	0.876 to 0.896 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Evaporation Rate	<1 compared to Butyl acetate.		
VOC	Not available.	VOC Method	Not available.
Viscosity	198 - 242 cSt @ 40C		
Solubility	Insoluble in cold water.		
Physical Chemical Comments	Not available.		

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	None known.
Incompatibility with Various Substances	Reactive with oxidizing agents.
Hazardous Decomposition Products	carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...), sulfur oxides (SO ₂ , SO ₃ ...).
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	

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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.

DEVELOPMENTAL TOXICITY: Not available.

Other Toxic Effects on Humans

Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant).

Special Remarks on Toxicity to Animals

No additional remark.

Special Remarks

No additional remark.

Special Remarks on Other Toxic Effects on Humans

No additional remark.

Section 12. Ecological Information

Ecotoxicity

Not available.

BOD and COD

Not available.

Biodegradable/OECD

Not available.

Mobility

Not available.

Products of Degradation

carbon oxides (CO, CO₂) , nitrogen oxides (NO, NO₂...) , sulfur oxides (SO₂, SO₃...) .

Toxicity of the Products of Biodegradation

Not available.

Special Remarks on the Products of Biodegradation

Not available.

Section 13. Disposal Considerations

Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Keep out of waterways. Dispose of according to all federal, state and local applicable regulations.

RCRA Waste Code(s)

USED OIL

Waste Stream

Not available.

Consult your local or regional authorities.

Section 14. Transport Information

DOT Classification

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Not regulated.

Marine Pollutant

Not pollutant.

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Special Provisions for Transport Petroleum oil, not regulated in containers less than 3500 gallons.

ADR/RID Classification Not determined.

IMO/IMDG Classification Not determined.

ICAO/IATA Classification Not determined.

Section 15. Regulatory Information

U.S. Federal Regulations

SARA 302/304 emergency planning and notification: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: ALPHA EP 220: immediate health hazard.

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: ARSENIC; LEAD; CADMIUM

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.

State Regulations

No products were found.

California prop. 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 statute: ARSENIC; LEAD; CADMIUM

California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: LEAD

California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (male) which would require a warning under the statute: LEAD; CADMIUM

California prop. 65 (no significant risk level): ARSENIC: 0.06 mg/day (inhalation); CADMIUM: 0.05 mg/day (inhalation)

California prop. 65 (acceptable daily intake level): LEAD

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: LEAD; CADMIUM

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: ARSENIC; LEAD

Inventory Lists

TSCA 8(b) inventory: All components of this product are listed on (or meet the exemption requirements of) the applicable inventory list.

CEPA DSL: All components of this product are listed on (or meet the exemption requirements of) the applicable inventory list.

Australia (NICNAS): One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer for additional information.

Korea (TCCL): One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer for additional information.

Philippines (RA6969): One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer for additional information.

MITI: One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer for additional information.

EINECS: One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer for additional information.

Section 16. Other Information

Label Requirements MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

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

Health	1
Fire Hazard	1
Reactivity	0
Personal Protection	C

**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. No component known to be present in this product at >0.1% is presently listed as a carcinogen by IARC, NTP or OSHA.

This product is a mixture and is NOT listed in the TSCA Inventory. The individual ingredients in the product are listed in the TSCA Inventory.

Validated by Product Stewardship on 05/03/2002.

Printed 05/03/2002.

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.