



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Common Name	TARP	Code	09043-AM
Supplier	CASTROL INDUSTRIAL NORTH AMERICA INC. 1001 WEST 31ST STREET DOWNERS GROVE, IL 60515-1280 Product Information: 630 241-4000	Validation Date	04/22/2002.
Synonym	Not available.	Print Date	04/22/2002.
Trade name	Not available.	Responsible Name	Product Stewardship
Material Uses	Industrial applications:	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
DISTILLATES, PETROLEUM, HYDROTREATED LIGHT (PURE)	64742-47-8	1-5	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 NAPHTHENIC	64742-52-5	20-25	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
HYDROCARBON WAXES, PETROLEUM, CLAY-TREATED MICROCRYST.	64742-42-3	5-10	ACGIH (United States). TWA: 5 mg/m ³ OSHA (United States). TWA: 5 mg/m ³
DISTILLATES, PETROLEUM, HYDROTREATED LIGHT NAPHTHENIC	64742-53-6	50-55	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
2,4-PENTANEDIOL, 2-METHYL-	107-41-5	1-5	ACGIH TLV (United States, 2000). CEIL: 121 mg/m ³ CEIL: 25 ppm OSHA PEL 1989 (United States, 1989). CEIL: 125 mg/m ³ CEIL: 25 ppm

Section 3. Hazards Identification

Physical State and Appearance	Liquid. (Thick oily liquid.) Mild. Chemical. Odor Hazy. Amber. Color
Emergency Overview	CAUTION! MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

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Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use 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.

Potential Chronic Health Effects

CARCINOGENIC EFFECTS: No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or International Agency for Research on Cancer (IARC).

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 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. Cover the irritated skin with an emollient. 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 CLOSED CUP: >93.32°C (200°F).

Flammable Limits Not available.

Products of Combustion carbon oxides (CO, CO₂), sulfur oxides (SO₂, SO₃...), Barium oxide.

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.

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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 containers with flooding amounts of water from as far a distance as possible.

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.

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 to enter drains or watercourses. 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. Avoid breathing vapors or spray mists. Do not ingest. Keep container closed. Use with adequate ventilation. Bring product to room temperature before use. Wash thoroughly after handling.

Keep container tightly closed. Keep container in a cool, well-ventilated area. Combustible materials should be stored away from extreme heat and away from 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.

Personal Protection

Eyes Splash goggles.

Body Synthetic apron.

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.

Product Name**Exposure Limits**

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DISTILLATES, PETROLEUM, HYDROTREATED LIGHT (PURE)

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 NAPHTHENIC

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

HYDROCARBON WAXES, PETROLEUM, CLAY-TREATED MICROCRYST.

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

DISTILLATES, PETROLEUM, HYDROTREATED LIGHT NAPHTHENIC

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

2,4-PENTANEDIOL, 2-METHYL-

ACGIH TLV (United States, 2000).
 CEIL: 121 mg/m³
OSHA PEL 1989 (United States, 1989).
 CEIL: 125 mg/m³
 CEIL: 25 ppm

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid. (Thick oily liquid.)	Odor	Mild. Chemical. Odor
Boiling/Condensation Point	Not available.	Taste	Not available.
Melting/Freezing Point	Not available.	Color	Hazy. Amber. Color
pH Concentrate	Not applicable.		
pH Dilution % and Value	Not applicable		
Critical Temperature	Not available.		
Specific Gravity	0.88 to 0.92 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Evaporation Rate	Not available.		
VOC	385.84 (g/l). 3.22 lbs/Gal.	VOC Method	Estimated.
Viscosity			
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), sulfur oxides (SO ₂ , SO ₃ ...), Barium oxide.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	CARCINOGENIC EFFECTS: No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or International Agency for Research on Cancer (IARC). 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). High vapor concentrations can cause headaches, dizziness, drowsiness, and nausea, and may lead to unconsciousness.
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, CO ₂), sulfur oxides (SO ₂ , SO ₃ ...). Barium oxide.
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.

Special Provisions for Transport

Not available.

ADR/RID Classification

Not determined.

IMO/IMDG Classification

Not determined.

ICAO/IATA Classification

Not determined.

Section 15. Regulatory Information

U.S. Federal Regulations

TSCA 4(a) final test rules: 2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether
 SARA 302/304 emergency planning and notification: No products were found.
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: TARP : immediate health hazard.
 SARA 313 toxic chemical notification and release reporting: BARIUM COMPOUNDS 2.8%

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.

State Regulations

Massachusetts RTK: MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED LIGHT NAPHTHENIC
 California prop. 65: No products were found.

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.

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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.

Validated by Product Stewardship on 04/22/2002.

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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.