

RECEIVED AUG 12 2011

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Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Common Name	SAFETY-FILM 639	Code	14007-AT
Supplier	CASTROL INDUSTRIAL NORTH AMERICA INC. 1001 WEST 31ST STREET DOWNERS GROVE, IL 60515-1280 Product Information: 630 241-4000	Validation Date	08/11/2003
Synonym	Not available.	Print Date	08/11/2003
Trade name	Not available.	Responsible Name	
Material Uses	Not available.	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
AMMONIUM HYDROXIDE ((NH4)(OH))	1336-21-6	1-5	OSHA PEL (United States, 1971). TWA: 35 MGM3 8 hour(s). TWA: 50 ppm 8 hour(s).
Morpholine	110-91-8	1-5	ACGIH TLV (United States, 2002). Skin TWA: 71 mg/m ³ 8 hour(s). TWA: 20 ppm 8 hour(s). OSHA PEL 1989 (United States, 1989). Skin TWA: 70 mg/m ³ 8 hour(s). TWA: 20 ppm 8 hour(s). OSHA PEL (United States, 1971). Skin TWA: 70 MGM3 8 hour(s). TWA: 20 ppm 8 hour(s). OSHA PEL 1989 (United States, 1989). Skin STEL: 105 mg/m ³ 15 minute(s). STEL: 30 ppm 15 minute(s).
PARAFFIN WAXES, PETROLEUM, CLAY-TREATED	64742-43-4	1-5	ACGIH (United States). TWA: 5 mg/m ³ 8 hour(s). OSHA (United States). TWA: 5 mg/m ³ 8 hour(s).

Section 3. Hazards Identification

Physical state / Appearance	Liquid.
Mild. Acrylic. Odor an. Color	
Emergency Overview	WARNING!

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CAUSES EYE IRRITATION.
MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION.

Avoid contact with eyes, skin and clothing. Do not ingest. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Not available.

Routes of Entry Skin Contact. Dermal contact. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects

Eyes Severely 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. Oral LD50 not established.

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: Not available.

Medical Conditions Aggravated by Overexposure: Repeated or prolonged exposure is not known to aggravate medical condition.

Over-exposure 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 if irritation occurs.
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 if irritation develops.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, seek immediate medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie; belt or waistband. Get medical attention immediately.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	May be combustible at high temperature.
Auto-ignition temperature	Not available.
Flash Point	Not available
Flammable Limits	Not available.

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Products of Combustion	carbon oxides (CO, CO ₂) nitrogen oxides (NO, NO ₂ ...)
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames, sparks and static discharge, of heat.
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.

Section 6. Accidental Release Measures

Small Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal. 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. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Do not ingest. Use with adequate ventilation. 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 Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable.

Personal Protection

Eyes Safety glasses with side shield or chemical goggles.

Body Wear appropriate protective clothing to prevent skin contact.

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.

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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

AMMONIUM HYDROXIDE ((NH₄)(OH))

Exposure Limits

OSHA PEL (United States, 1971).

TWA: 35 MGM3 8 hour(s).

TWA: 50 ppm 8 hour(s).

Morpholine

ACGIH TLV (United States, 2002). SkinTWA: 71 mg/m³ 8 hour(s).TWA: 20 ppm 8 hour(s). **OSHA PEL 1989 (United States, 1989).****Skin**TWA: 70 mg/m³ 8 hour(s).

TWA: 20 ppm 8 hour(s).

OSHA PEL (United States, 1971). Skin

TWA: 70 MGM3 8 hour(s).

TWA: 20 ppm 8 hour(s). **OSHA PEL 1989 (United States, 1989).****Skin**STEL: 105 mg/m³ 15 minute(s).

STEL: 30 ppm 15 minute(s).

PARAFFIN WAXES, PETROLEUM,
CLAY-TREATED**ACGIH (United States).**TWA: 5 mg/m³ 8 hour(s). **OSHA (United States).**TWA: 5 mg/m³ 8 hour(s).

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical state / Appearance	Liquid.	Odor	Mild. Acrylic. Odor
Boiling/Condensation Point	99.99°C (212°F)	Taste	Not available.
Melting/Freezing Point	-17.78°C (0°F)	Color	Tan. Color
pH (Concentration)	Neutral.		
pH Dilution % and Value	9.3 to 9.8 at 100%		
Critical Temperature	Not available.		
Specific Gravity	1.01 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available		
Volatility	Not available.		
Odor Threshold	Not available.		
Evaporation Rate	Not available.		
VOC	44.34 (g/l).	VOC Method	ESTIMATED

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Viscosity	Dynamic: 6 to 18 cP
Dispersion Properties	See solubility in water.
Solubility	Easily soluble in cold water, hot 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 ...)
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 : Not available. DEVELOPMENTAL TOXICITY : Not available.
Other Toxic Effects on Humans	Very hazardous in case of eye contact (irritant). Hazardous in case of skin contact (irritant), of inhalation (lung irritant).
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	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) nitrogen oxides (NO, NO ₂ ...)

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Toxicity of the Products of Not available.
Biodegradation

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 None identified.

ADR/RID Classification Not determined.

IMO/IMDG Classification Not regulated.

ICAO/IATA Classification Not regulated.

Section 15. Regulatory Information

U.S. Federal Regulations TSCA 8(a) PAIR: ethanol, 2-butoxy-, phosphate (3:1)

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

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: SAFETY-FILM 639: immediate health hazard, delayed health hazard.

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

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: AMMONIA ...%

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

Pennsylvania RTK: AMMONIA ...% (environmental hazard, generic environmental hazard);
MORPHOLINE (generic environmental hazard)
Massachusetts RTK: AMMONIA ...%; MORPHOLINE
New Jersey: AMMONIA ...%; MORPHOLINE

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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.: Propylene oxide, Dioxane

Inventory Lists

TSCA 8(b) inventory: In compliance.

CEPA DSL: Not listed.

Australia (NICNAS): Not determined.

Korea (TCCL): Not determined.

Philippines (RA6969): Not determined.

MITI: Not determined.

EINECS: Not determined.

Section 16. Other Information

Label Requirements

CAUSES EYE IRRITATION.
MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION.

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

Health	2
Fire Hazard	1
Reactivity	0
Personal Protection	B

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



References

Not available.

Other Special
Considerations

No additional remark.

Validated by Product Stewardship on 08/11/2003.

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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.

