



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Common Name	RUSTILO DW 924HF	Code	08038-AE
Supplier	CASTROL INDUSTRIAL NORTH AMERICA INC. 1001 WEST 31ST STREET DOWNERS GROVE, IL 60515-1280 Product Information: 630 241-4000	Validation Date	1/8/2002.
Synonym	Not available.	Print Date	1/8/2002.
Trade name	RUSTILO IS REGISTERED IN THE U.S. PATENT AND TRADEMARK OFFICE.	Responsible Name	Product Stewardship
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
1) DISTILLATES, PETROLEUM, HYDROTREATED LIGHT	64742-47-8	85-90	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) DISTILLATES, PETROLEUM, HYDROTREATED LIGHT PARAFFINIC	64742-55-8	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
3) DISTILLATES, PETROLEUM, SOLVENT-REFINED LIGHT NAPHTHENIC	64741-97-5	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
4) DISTILLATES, PETROLEUM, SOLVENT-REFINED LIGHT PARAFFINIC	64741-89-5	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
5) DISTILLATES, PETROLEUM, HYDROTREATED LIGHT NAPHTHENIC	64742-53-6	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

Section 3. Hazards Identification

Physical State and Appearance	Liquid.
Odor (Slight.) Amber. (Dark.)	
Emergency Overview	WARNING!

Continued on Next Page

COMBUSTIBLE LIQUID AND VAPOR.
VAPOR MAY CAUSE FIRE.
MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
ASPIRATION HAZARD.

Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Do not ingest. If ingested do not induce vomiting.

Not available.

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 Aspiration hazard if swallowed- can enter lungs and cause damage. Ingestion may cause gastrointestinal irritation and diarrhea.

No additional remark.

Potential Chronic Health Effects

CARCINOGENIC EFFECTS: Not known to be carcinogen.
MUTAGENIC EFFECTS: Not classifiable as a human carcinogen, teratogen or mutagen.
TERATOGENIC EFFECTS: Not classifiable as a human carcinogen, teratogen or mutagen.

Medical Conditions

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

Aggravated by Overexposure:

Overexposure

Not available.

/Signs/Symptoms

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. Aspiration hazard if swallowed- can enter lungs and cause damage. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.

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: 85°C (185°F). (Pensky-Martens.)

Flammable Limits Not available.

Products of Combustion These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances Flammable in presence of open flames, sparks and static discharge, of shocks, of heat, of oxidizing materials.

Continued on Next Page

Explosion Hazards in Presence of Various Substances	Slightly explosive in presence of open flames, sparks and static discharge, of shocks, of heat, of oxidizing materials.
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	Vapor may travel considerable distance to source of ignition and flash back. Vapor may cause flash fire. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back.
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	Combustible material. Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary people away from spill area. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5). Do not touch or walk through spilled material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. 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 regulations.

Section 7. Handling and Storage

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Use with adequate ventilation. Wash thoroughly after handling. Do not ingest. If ingested do not induce vomiting. Aspiration hazard if swallowed- can enter lungs and cause damage.

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. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating and lighting) equipment.

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 threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	<p>Eyes Wear safety glasses with side shields to prevent eye contact.</p> <p>Body Synthetic apron.</p> <p>Respiratory A respirator is not needed under normal and intended conditions of product use. Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s).</p> <p>Hands Impervious gloves.</p> <p>Feet Not applicable.</p>

Continued on Next Page

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

1) DISTILLATES, PETROLEUM, HYDROTREATED LIGHT	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) DISTILLATES, PETROLEUM, HYDROTREATED LIGHT PARAFFINIC	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
3) DISTILLATES, PETROLEUM, SOLVENT-REFINED LIGHT NAPHTHENIC	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
4) DISTILLATES, PETROLEUM, SOLVENT-REFINED LIGHT PARAFFINIC	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
5) DISTILLATES, PETROLEUM, HYDROTREATED LIGHT NAPHTHENIC	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

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Odor (Slight.)
Boiling/Condensation Point	Not determined.	Taste	Not available.
Melting/Freezing Point	Not determined.	Color	Amber. (Dark.)
pH Concentrate	Not applicable.		
pH Dilution % and Value	Not Applicable		
Critical Temperature	Not available.		
Specific Gravity	0.83 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not determined.		
Volatility	Not available.		
Odor Threshold	Not available.		
Evaporation Rate	Not determined.		
VOC	Not available.	VOC Method	Not available.
Viscosity			

Continued on Next Page

3.22 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 Avoid excessive heat.

Incompatibility with Various Substances Reactive with oxidizing agents.

Hazardous Decomposition Products carbon oxides (CO, CO₂)

Hazardous Polymerization Will not occur.

Section 11. Toxicological Information

Toxicity to Animals Acute oral toxicity (LD50): 2200 mg/kg [Rabbit]. (ETHANOL, 2-(2-BUTOXYETHOXY)-).
Acute dermal toxicity (LD50): 2700 mg/kg [Rabbit]. (ETHANOL, 2-(2-BUTOXYETHOXY)-).

Chronic Effects on Humans **CARCINOGENIC EFFECTS:** Not known to be carcinogen.
MUTAGENIC EFFECTS: Not classifiable as a human carcinogen, teratogen or mutagen.
TERATOGENIC EFFECTS: Not classifiable as a human carcinogen, teratogen or mutagen.
DEVELOPMENTAL TOXICITY: Not classifiable as a human carcinogen, teratogen or mutagen.

Other Toxic Effects on Humans Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant). Exposure to high concentrations can cause dizziness, lightheadness, headache, nausea, and blurred vision. Higher levels may cause 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 These products are carbon oxides (CO, CO₂) and water.

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. Recover free liquid. Keep product out of streams and waterways by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Dispose of in accordance with local, state and federal regulations. Disposal of this material to the land may be banned by federal law (40 CFR 268).

RCRA Waste Code(s) USED OIL; D005

Waste Stream Not available.

Consult your local or regional authorities.

Section 14. Transport Information

DOT Classification Combustible Liquid.

PETROLEUM DISTILLATES, N.O.S., Combustible Liquid, UN1268, III

Marine Pollutant Not pollutant.

Special Provisions for Transport Not regulated in containers less than 110 gallons.

ADR/RID Classification Not available.

IMO/IMDG Classification Not available.

ICAO/IATA Classification Not available.

Section 15. Regulatory Information

U.S. Federal Regulations TSCA 4(a) final test rules: ETHANOL, 2-(2-BUTOXYETHOXY)-
 TSCA 12(b) one time export: ETHANOL, 2-(2-BUTOXYETHOXY)-
 SARA 302/304 emergency planning and notification: No products were found.
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: RUSTILO DW 924HF: fire, immediate health hazard.
 SARA 313 toxic chemical notification and release reporting: ETHANOL, 2-(2-BUTOXYETHOXY)- 1.5%; SULFONIC ACIDS, PETROLEUM, BARIUM SALTS 3.276%
 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 Pennsylvania RTK: ETHANOL, 2-(2-BUTOXYETHOXY)- (environmental hazard, generic environmental hazard)
 Massachusetts RTK: MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED LIGHT PARAFFINIC; MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-REFINED LIGHT NAPHTHENIC; MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-REFINED LIGHT PARAFFINIC; MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED LIGHT NAPHTHENIC
 New Jersey: ETHANOL, 2-(2-BUTOXYETHOXY)-
 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.

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

COMBUSTIBLE LIQUID AND VAPOR.
VAPOR MAY CAUSE FIRE.
MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
ASPIRATION HAZARD.

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

Health	1
Fire Hazard	2
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 1/8/2002.

Printed 1/8/2002.

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.