

4/1/2005

Print Date

Material Safety Data Sheet

Product Name Wright Stain Solution, HARLECO® 740 **Product Code** EMD Chemicals Inc. Manufacturer **Effective Date** 3/11/2005

P.O. Box 70

480 Democrat Road Gibbstown, NJ 08027

Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries,

Inc.

For More Information Call In Case of Emergency Call

856-423-6300 Technical Service 800-424-9300 CHEMTREC (USA) Monday-Friday: 8:00 AM - 5:00 PM 613-996-6666 CANUTEC (Canada)

24 Hours/Day: 7 Days/Week

None. **Synonym**

Analytical reagent. **Material Uses**

Chemical Family Solution.

Section 2. Composition and Information on Ingredients

| Component | CAS# | % by Weight |
|--------------|------------|----------------|
| Methanol | 67-56-1 | 99-100 |
| Wright Stain | 68988-92-1 | 0-1 |

Section 3. Hazards Identification

Physical State and Liquid. **Appearance**

Emergency Overview

DANGER!

POISON!

FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. MAY BE FATAL IF SWALLOWED.

MAY CAUSE BLINDNESS IF SWALLOWED. CANNOT BE MADE NON-POISONOUS.

HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: GASTROINTESTINAL TRACT, RESPIRATORY TRACT, SKIN, CENTRAL NERVOUS

SYSTEM, EYE, LENS OR CORNEA.

Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion. **Routes of Entry**

Potential Acute Health Effects

Eyes Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

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Skin Hazardous in case of skin contact (permeator, irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

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Inhalation Hazardous in case of inhalation (lung irritant).

Ingestion Extremely hazardous in case of ingestion. May be fatal or cause blindness if swallowed.

Potential Chronic Health Effects

Section 4 First Aid Measures

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

Additional information See Toxicological Information (section 11)

Medical Conditions Aggravated by Overexposure: Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

| d Measures | | | |
|---|--|--|--|
| Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately. | | | |
| In case of contact, immediately flush skin with plenty of water for at least 15 minutes whi removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Co water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. General attention immediately. | | | |
| If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficugive oxygen. Get medical attention immediately. | | | |
| If swallowed, 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. | | | |
| hting Measures | | | |
| Product will burn. | | | |
| The lowest known value is 464.05°C (867.3°F) (Methanol). | | | |
| The lowest known value is Open cup: 15.9°C (60.6°F). (Methanol) | | | |
| The greatest known range is LOWER: 6% UPPER: 36.5% (Methanol) | | | |
| These products are carbon oxides (CO, CO2). | | | |
| Highly flammable in presence of open flames, sparks and static discharge, of shocks, of heat, of oxidizing materials. | | | |
| Risks of explosion of the product in presence of static discharge: Highly flammable in presence of open flames, sparks and static discharge. Highly explosive in presence of open flames, sparks and static discharge. | | | |
| Risks of explosion of the product in presence of mechanical impact: Highly flammable in presence of shocks. Highly explosive in presence of shocks. | | | |
| SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion. | | | |
| Be sure to use an approved/certified respirator or equivalent. | | | |
| | | | |

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Special Remarks on Fire Hazards

Dangerous fire and explosion risk. Container explosion may occur under fire conditions or when heated. Vapor may travel considerable distance to source of ignition and flash back. (Methanol)

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Special Remarks on Explosion Hazards

Not available.

Section 6. Accidental Release Measures

Small Spill and Leak Dilute with water and

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill and Leak

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Spill Kit Information

The following EMD Chemicals Inc. SpillSolv ® absorbent is recommended for this product: SX1330 Solvent Treatment Kit

Section 7. Handling and Storage

HandlingKeep away from heat, sparks and flame. Keep container closed. Avoid breathing vapors or spray mists. Do not get in eyes, on skin, or on clothing. Do not ingest.

Storage Keep container in a cool, well-ventilated area.

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 Lab coat.

Respiratory Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands Gloves.

Feet Not applicable.

Protective Clothing (Pictograms)



Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name

Exposure Limits

| Wildin Stail Schullon, HANLLCO W 140 | Wright S | Stain | Solution. | HARLECO® | 740 |
|--------------------------------------|----------|-------|-----------|----------|-----|
|--------------------------------------|----------|-------|-----------|----------|-----|

Methanol

ACGIH (United States, 1994). Skin

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TWA: 262 mg/m³ STEL: 328 mg/m³

OSHA (United States, 1989). Skin

TWA: 260 mg/m³ STEL: 325 mg/m³

ACGIH (United States, 1994). Skin STEL: 328 mg/m³ 15 minute(s). STEL: 250 ppm 15 minute(s).

TWA: 262 mg/m³ 8 hour(s). TWA: 200 ppm 8 hour(s).

NIOSH REL (United States, 1994). Skin

STEL: 325 mg/m³ 15 minute(s). STEL: 250 ppm 15 minute(s). TWA: 260 mg/m³ 10 hour(s). TWA: 200 ppm 10 hour(s).

OSHA Final Rule (United States, 1989). Skin

STEL: 325 mg/m³ 15 minute(s). STEL: 250 ppm 15 minute(s). TWA: 260 mg/m³ 8 hour(s). TWA: 200 ppm 8 hour(s).

Wright Stain Not available.

Section 9. Physical and Chemical Properties

| Odor | Characteristic. Alcohol like. |
|----------------------------------|---|
| Color | Purple. |
| Physical State and Appearance | Liquid. |
| Molecular Weight | Not applicable. |
| Molecular Formula | Not applicable. |
| pH | Not available. |
| Boiling/Condensation Point | The lowest known value is 64.55°C (148.2°F) (Methanol). |
| Melting/Freezing Point | May start to solidify at -97.72°C (-143.9°F) based on data for: Methanol. |
| Specific Gravity | The only known value is 0.792 (Water = 1) (Methanol). |
| Vapor Pressure | The highest known value is 12.9 kPa (97 mmHg) (@ 20°C) (Methanol). |
| Vapor Density | The highest known value is 1.11 (Air = 1) (Methanol). |
| Volatility | 99.9% (v/v). (Methanol.) |
| Odor Threshold | The lowest known value is 100 ppm (Methanol) |
| Evaporation Rate | 5.91 (Methanol) compared to (n-BUTYL ACETATE=1) |
| voc | 100 (%) |
| LogKow | Not available. |
| Solubility | Soluble in water. |

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Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Conditions of Instability Not available.

Incompatibility with Highly reactive with oxidizing agents.

Various Substances Reactive with metals, acids.

Rem/Incompatibility Not available.

Hazardous Decomposition carbon oxides (CO, CO2)

Products

Hazardous Polymerization Will not occur.

Section 11. Toxicological Information

RTECS Number: Methanol PC1400000

Wright Stain Not available.

Toxicity Acute oral toxicity (LD₅₀): 5628 mg/kg [Rat]. (Methanol).

Acute dermal toxicity (LD₅₀): 15800 mg/kg [Rabbit]. (Methanol).

Acute toxicity of the vapor (LC₅₀): 64000 ppm 4 hour(s) [Rat]. (Methanol).

Chronic Effects on

Humans

Not available.

Acute Effects on Humans Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness,

watering, and itching. Hazardous in case of skin contact (permeator, irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Hazardous in case of inhalation (lung irritant). Extremely hazardous in case of ingestion. May be fatal if swallowed.

Synergetic Products

(Toxicologically)

Not available.

Irritancy Draize Test: Not available.

Sensitization Not available.

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

Toxicity to Reproductive

System

Not available.

Teratogenic Effects

Not available.

Mutagenic Effects

Not available.

Section 12. Ecological Information

Ecotoxicity Not available.

BOD5 and COD Not available.

Toxicity of the Products of The products of degradation are less toxic than the product itself.

Biodegradation

Section 13. Disposal Considerations

EPA Waste Number U154 D001

Treatment Incineration, fuels blending or recycle. Contact your local permitted waste disposal site (TSD)

for permissible treatment sites. Always contact a permitted waste disposal (TSD) to assure

compliance with all current local, state, and Federal Regulations..

Section 14. Transport Information

DOT Classification Proper Shipping Name: METHANOL SOLUTION

Hazard Class: 3 UN number: UN1230 Packing Group: II RQ: Not applicable.

TDG Classification Not available.

IMO/IMDG Not available.
Classification

ICAO/IATA Classification Not available.

Section 15. Regulatory Information

U.S. Federal Regulations TSCA 8(b) inventory: Methanol; Wright Stain

SARA 302/304/311/312 extremely hazardous substances: No products were found.

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

SARA 302/304/311/312 hazardous chemicals: Methanol

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Methanol: Fire

Hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard SARA 313 toxic chemical notification and release reporting: Methanol 99.5%

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 flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

Class D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).

WHMIS Class D-2B: Material causing other toxic effects (TOXIC).

CEPA DSL: Methanol; Wright Stain

This product has been classifed in accordance with the hazard criteria of the Controlled Product

Regulations and the MSDS contains all required information.

International Regulations

EINECS Methanol 200-659-6

Wright Stain 273-541-5

DSCL (**EEC**) R11- Highly flammable.

R37/38- Irritating to respiratory system and skin.

R41- Risk of serious damage to eyes.

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International Lists Australia (NICNAS): Methanol; Wright Stain

Japan (MITI): Methanol

Korea (TCCL): Methanol

Philippines (RA6969): Methanol; Wright Stain

China: No products were found.

State Regulations Pennsylvania RTK: Methanol: (environmental hazard, generic environmental hazard)

Massachusetts RTK: Methanol

New Jersey: Methanol

California prop. 65: No products were found.

Section 16. Other Information

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



Specific Hazard

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Changed Since Last Revision



Notice to Reader

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