



Material Safety Data Sheet

Product: WK4 - HT Cement

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: WK4 - HT Cement

Product Use: Assembling solution

MSDS Preparation Date: 8/15/2005

Manufacturer: REMA TIP TOP/NO. AMERICA, 119 Rockland Avenue, Northvale, NJ 07647

24-Hour Emergency Phone Number: 800-424-9300 (CHEMTREC)

2. PRODUCT INGREDIENTS

| <u>CHEMICAL NAME:</u> | <u>CAS NUMBER:</u> | <u>% RANGE:</u> | <u>OSHA PEL:</u> |
|-----------------------|--------------------|-----------------|---|
| Ethylacetate | 141-78-6 | 40-70 | 400 ppm TWA; 1400 mg/m ³ TWA |
| Solvent Naphtha | 92062-15-2 | 10-30 | Not Established |

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

The balance of ingredients not rated as hazardous as defined in 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

This product is a black viscous liquid. This product poses a serious fire hazard. This product may be irritating to the eyes and respiratory system. Prolonged and/or repeated skin contact with this product may cause irritation, defatting of skin and dermatitis. This is an aspiration hazard if swallowed.

EYE: This product may cause irritation to the eyes. Symptoms may include stinging, tearing, and redness. Repeated or prolonged exposure to ethyl acetate may cause conjunctivitis and corneal clouding.

SKIN: Prolonged and/or repeated skin contact with this product may cause irritation, defatting of skin and dermatitis. In rare instances, repeated exposure to ethyl acetate may result in sensitization with eczematous eruptions.

INGESTION: Not a likely route of entry. Ingestion of large amounts of this product may be harmful. Large amounts of ethyl acetate ingested may cause central nervous system depression, with dizziness, headache, weakness, fatigue, drowsiness, and unconsciousness. Ethyl acetate poisoning may cause congestion of the liver and kidneys.

INHALATION: Inhalation of vapors or mists during normal handling is not likely to cause harmful effects. Inhalation of large amounts of this product may be harmful. Inhalation may cause respiratory system irritation. Symptoms caused from high concentration exposure may include headache, dizziness, weakness, and unconsciousness.

4. FIRST AID



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EYES: Flush eyes continuously for 15 minutes while frequently lifting the upper and lower eyelids. If irritation persists, consult medical personnel.

SKIN: For skin contact, flush with large amounts of water. If irritation persists, get medical attention. Wash contaminated clothing before reuse.

INGESTION: Do not induce vomiting. Call a physician immediately.

INHALATION: Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration. Seek medical attention.

NOTE TO PHYSICIAN: Provide general supportive measures and treat symptomatically. If evacuation of stomach contents is necessary, use method least likely to cause aspiration.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point: -4°C (25°F) (Ethyl Acetate)

Upper Flammable Limit (UFL): Not Available

Auto Ignition: Not Available

Method Used: TOC, TCC, COC

Lower Flammable Limit (LFL): 0.6% (by volume) @ 212°F (100°C)

Flammability Classification: Class IB

HAZARDOUS COMBUSTION PRODUCTS: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

EXTINGUISHING MEDIA: Dry chemical, foam, carbon dioxide.

FIRE FIGHTING INSTRUCTIONS: Serious fire hazard. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Vapor/air mixtures are explosive above flash point.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Fire fighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.

6. ACCIDENTAL RELEASE MEASURES

CONTAINMENT PROCEDURES: Do not breathe vapors. Ventilate area of leak or spill. Wear the appropriate personal protective equipment. See Section 8: Exposure Control/Personal Protection. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Contain the discharged material. Stop the flow of material, if this is without risk.

CLEAN-UP PROCEDURES: Absorb the spilled material with an inert absorbent (nonflammable) material. Scoop up used absorbent into drums or other appropriate container. Regulations vary. Consult local authorities before disposal. Follow all Local, State, Federal and Provincial regulations for disposal.

EVACUATION PROCEDURES: Clear all personnel from the area.

SPECIAL PROCEDURES: For all transportation accidents, call CHEMTREC at 800-424-9300.



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7. HANDLING & STORAGE

HANDLING: Very large quantities of these packages, if mishandled, may accumulate enough liquid or vapor to cause a flammable atmosphere. Vapors are heavier than air and may spread along the floor. Keep containers tightly closed.

DO NOT eat, drink or smoke in product area. Wash thoroughly after handling.

STORAGE: Eliminate all sources of static electricity, heat, and ignition. Use only explosion-proof equipment. Store in a cool, dry place. Keep packaged in original, labeled containers until use. Do not remove or deface label. Do not reuse container without recycling or reconditioning in accordance with any Federal, Provincial, State or local laws. Do not use cutting or welding torches, open flames, or electric arcs on empty or full containers. DO NOT eat, drink or smoke in product area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: Wear safety glasses. Contact lenses should not be exposed. Wear chemical goggles; face shield (if splashing is possible). If vapor exposure causes eye discomfort, use a full-face respirator.

SKIN PROTECTION: Use impervious gloves. Use of impervious apron and boots are recommended.

RESPIRATORY PROTECTION: Respiratory protection; not normally required for ambient air concentrations not exceeding the Occupational Exposure Limit. When respiratory protection is required, wear a NIOSH/MSHA approved self-contained breathing apparatus with full-face piece operated in a positive-pressure mode.

EXPOSURE GUIDELINE(s): Component Exposure Limits

REMA TIP/TOP USA recommends that its customers minimize employee exposure. REMA therefore suggests that its customers consider adopting the lower of the current OSHA PEL or the ACGIH TLV's for the purpose of evaluating employee exposures. The TLV's recommended by the ACGIH have been updated on a continuing basis.

Ethylacetate (141-78-6)

| | |
|--------|---|
| ACGIH: | 400 ppm TWA |
| OSHA: | 400 ppm TWA; 1400 mg/m ³ TWA |
| NIOSH: | 400 ppm TWA; 1400 mg/m ³ TWA |



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Component Exposure Limits - Canada

The following Provincial Exposure Limits apply for this product's components.

Ethylacetate (141-78-6)

| | |
|-------------------|---|
| Alberta: | 400 ppm TWA; 1440 mg/m ³ TWA |
| British Columbia: | 150 ppm TWA |
| Manitoba: | 400 ppm TWA; 1400 mg/m ³ TWA |
| New Brunswick: | 400 ppm TWA; 1440 mg/m ³ TWA |
| NW Territories: | 400 ppm TWA; 1441 mg/m ³ TWA |
| | 500 ppm STEL; 1801 mg/m ³ STEL |
| Nova Scotia: | 400 ppm TWA |
| Nunavut: | 400 ppm TWA; 1441 mg/m ³ TWA |
| | 500 ppm STEL; 1801 mg/m ³ STEL |
| Ontario: | 400 ppm TWAEV; 1440 mg/m ³ TWAEV |
| Quebec: | 400 ppm TWAEV; 1400 mg/m ³ TWAEV |
| Saskatchewan: | 1440 mg/m ³ TWA; 400 ppm TWA |
| | 1800 mg/m ³ STEL; 500 ppm STEL |
| Yukon: | 400 ppm TWA; 1400 mg/m ³ TWA |
| | 400 ppm STEL; 1400 mg/m ³ STEL |

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE: Black

ODOR: Ether-like

ODOR THRESHOLD: Not Available

BOILING POINT: 169°F (76°C)

SOLUBILITY IN WATER: immiscible @ 68°F (20°C)

SPECIFIC GRAVITY: 0.9 g/ml @ 68°F (20°C)

VAPOR PRESSURE: 29.3 mmHg @ 68°F (20°C)

% VOLATILE: 40-70% by weight

10. STABILITY & REACTIVITY

INCOMPATIBILITY WITH OTHER MATERIALS: Avoid strong alkalis and oxidizers.

HAZARDOUS POLYMERIZATION: Will not occur.

DECOMPOSITION PRODUCTS: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Large quantities of this product, combined with excessive heat and nitrosating agents may produce a cleavage of nitrosamines in traces.

11. TOXICOLOGICAL INFORMATION



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ACUTE TOXICITY

This product may be irritating to the eyes, skin, and respiratory system. Inhalation of high concentrations of the vapors may produce the following symptoms: headache, dizziness, weakness, and unconsciousness.

CHRONIC TOXICITY

Prolonged or repeated liquid contact can result in defatting and drying of the skin, which may result in skin irritation and dermatitis. Chronic poisoning has been described as producing secondary anemia, leucocytosis and cloudy swelling, and fatty swelling of the viscera.

CARCINOGENICITY

No carcinogenicity data available for this product. This product's component(s) are not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

12. ECOLOGICAL INFORMATION

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Ethylacetate (141-78-6)

Test & Species

96 Hr LC50 fathead minnow

230 mg/L

Conditions

flow-through

13. DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

UNUSED & UNCONTAMINATED PRODUCT:

Component Waste Numbers

Ethylacetate (141-78-6)

RCRA:

waste number U112 (Ignitable waste)

If discarded, this product is considered a RCRA ignitable waste, D001.

14. TRANSPORT INFORMATION



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Product: WK4 - HT Cement

US DOT Information

Shipping Name: Adhesives (Contains: Heptane (n-))

UN/NA #: UN1133 **Hazard Class:** 3 **Packing Group:** II

Required Label(s): Flammable Liquid

Additional Info.: PLACARD (WHEN REQUIRED): FLAMMABLE LIQUID, 3

EXCEPTIONS: DOT Paragraphs 172.102, 173.150, 173.173, & 173.242.

ALTERNATE SHIPPING ARRANGEMENTS: Based on package or shipping container size, this product may be shipped as a, "Limited Quantity", or, renamed, "Consumer Commodity" and reclassified as, "ORM-D" Material.

TDG Information

Shipping Name: Adhesives (Contains: Heptane (n-))

UN/NA #: UN1133 **Hazard Class:** 3 **Packing Group:** II

Required Label(s): Flammable Liquid

IMDG Information

Additional Info.: EmS = 3-05

Exceptions: For package and container size when Shipped as Limited Quantity under packing instruction P001, Provision PP1 and Chapter 3.4 (Limited Quantity).

IATA Information

Additional Info.: 3

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

SARA 313 INFORMATION:

Component Analysis

None of this products components are listed under SARA Section 313 (40 CFR 372.65).

SARA HAZARD CATEGORY:

Acute Health: Yes **Chronic Health:** No **Fire:** Yes **Pressure:** No **Reactive:** No

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA):

Component Analysis

This material contains one or more of the following chemicals required to be identified under CERCLA (40 CFR 302.4).

Ethylacetate (141-78-6)

CERCLA:

5000 lb final RQ; 2270 kg final RQ

TOXIC SUBSTANCES CONTROL ACT (TSCA): Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are exempt from listing (i.e. as polymers) or are listed on the confidential inventory as declared by the supplier.

Component Analysis - Inventory

| Component | CAS # | TSCA | CAN | EEC |
|-----------------|------------|------|-----|--------|
| Ethylacetate | 141-78-6 | Yes | DSL | EINECS |
| Solvent Naphtha | 92062-15-2 | No | No | EINECS |



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STATE RIGHT-TO-KNOW:

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

| Component | CAS | CA | MA | MN | NJ | PA | RI |
|--------------|----------|-----|-----|-----|-----|-----|-----|
| Ethylacetate | 141-78-6 | Yes | Yes | Yes | Yes | Yes | Yes |

Other state regulations may apply. Check individual state requirements.

CANADIAN REGULATIONS

WHMIS INFORMATION:

WHMIS Classification: B2, D2B

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

| Component | CAS # | Minimum Concentration |
|--------------|----------|--|
| Ethylacetate | 141-78-6 | 1 % (English Item 689, French Item 17) |

EUROPE:

Component Analysis

| Component (CAS#) | EC # |
|------------------------------|-----------|
| Ethylacetate (141-78-6) | 205-500-4 |
| Solvent Naphtha (92062-15-2) | 295-529-9 |

16. OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

NFPA Ratings: Health: 1 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

MEDICAL EMERGENCIES:

Call CHEMTREC 24 hours a
Day for emergency information
800-424-9300

FOR ANY OTHER INFORMATION:

REMA TIP TOP/NO. AMERICA
119 Rockland Ave.
NORTHVALE, NJ 07647
201-768-8100

NOTICE: REMA TIP/TOP USA believes that the information contained on this material safety data sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all-inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements.

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