



WEAVER GENERAL CONSTRUCTION COMPANY
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SUBMITTAL TRANSMITTAL

May 27, 2011

WGC Submittal No: 03100-005

PROJECT: **Harold Thompson Regional WRF**
 Birdsall Rd.
 Fountain, CO 80817
 Job No. 2908

ENGINEER: **GMS, Inc.**
 611 No. Weber St., #300
 Colorado Springs, CO 80903
 719-475-2935 Roger Sams

OWNER: **Lower Fountain Metropolitan
 Sewage Disposal District**
 901 S. Santa Fe Ave.
 Fountain, CO 80817
 719-382-5303 James Heckman

CONTRACTOR: **Garney Companies Inc.**
 7911 Shaffer Parkway
 Littleton, CO 80127
 303-791-3600 Dennis Van Auken

SUBJECT: Concrete Form Oil

SPEC SECTION: 03100 - Concrete Formwork

PREVIOUS SUBMISSION DATES: None

DEVIATIONS FROM SPEC: ___ YES X NO

CONTRACTOR'S STAMP: This submittal has been reviewed by Weaver General Construction and approved with respect to the means, methods, techniques, & safety precautions & programs incidental thereto. Weaver General Construction also warrants that this submittal complies with contracted documents and comprises on deviations thereto:

Contractor's Stamp:

Engineer's Stamp:

Date: 5/27/11
 Reviewed by: H.C. Myers
 (X) Reviewed Without Comments
 () Reviewed With Comments

**ENGINEER'S
 COMMENTS:** _____

WHITE CAP FORM OIL

Reactive form release agent

DESCRIPTION

WHITE CAP FORM OIL is a chemically active release agent specially engineered to positively prevent bonding of the concrete to forms and form liners.

WHITE CAP FORM OIL contains no waxes or silicones.

WHITE CAP FORM OIL:

- Improves release of formwork
- Reduces concrete buildup on formwork and liners
- Reduces cleaning of formwork
- Protects formwork against rust
- Leaves no residue, stain or discoloration

APPLICATION

Storage: Store material in the original tightly closed containers. Do not allow the accumulation of water, dirt or other contaminants.

Coverage: Ready to use. Do not dilute. Form surfaces should be clean of dirt, rust, scale and concrete build up prior to application. Spray application of WHITE CAP FORM OIL is recommended with coverage as follows:

- Steel, Plastic, Fiberglass 2000 sq ft/gal
- Conditioned Aluminum 2000 sq ft/gal
- HDO Plywood 2000 sq ft/gal
- MDO Plywood 1500 sq ft/gal
- Dimensional Lumber 1000 sq ft/gal
- BB Grade Plywood 1000 sq ft/gal

Actual application rates depend on the porosity of form surface.

WHITE CAP FORM OIL should be spray applied using an atomizing or misting spray tip so that application may be in thin uniform films to maximize product performance and economy. Over-application will not produce better results and may cause dusting.

Excess material or puddles should be removed with a squeegee and absorbent rags.

When properly applied, WHITE CAP FORM OIL will not leave any residue or stain on the concrete, producing a smooth, architectural concrete surface ready for subsequent coatings. Coating manufacturer's recommendations for surface preparations must be followed.

Sprays easily in cold temperatures. Proper application substantially reduces concrete surface voids and extends the life of wood forms.

Revised 10/3/06

STANDARDS

WHITE CAP FORM OIL meets V.O.C. emission requirements for form releases (EPA limit < 450 g/L).

PACKAGING

WHITE CAP FORM OIL is packaged in 275 gallon totes, 55 gallon drums and 5 gallon pails.

SHELF LIFE

Shelf life of WHITE CAP FORM OIL in the original tightly closed containers is two years from date of manufacture.

LIMITATIONS

WHITE CAP FORM OIL should not be used as a bond breaker in tilt up construction.

PRECAUTIONS

DO NOT CUT OR WELD CONTAINER
KEEP AWAY FROM OPEN FLAME
INDUSTRIAL USE ONLY

Additional precautions, safety information and first aid are contained in the Material Safety Data Sheet.

WARRANTY

NOTICE-READ CAREFULLY

CONDITIONS OF SALE

Manufacturer offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of Manufacturer. No other representative of or for Manufacturer is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

Manufacturer warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, Manufacturer will replace the defective product with new product without charge to the purchaser. Manufacturer makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

INHERIT RISK

Purchaser assumes all risk associated with the use or application of the product.

White Cap[®]
CONSTRUCTION SUPPLY

3120 Airway Ave.
Costa Mesa, CA 92626
800-300-3120

MATERIAL SAFETY DATA SHEET

WHITE CAP FORM OIL VOC

1. COMPANY IDENTIFICATION

Manufacturer: White Cap Construction Supply

3120 Airway Ave.

Costa Mesa, CA 92626

800-300-3120

24 Hour Emergency Contact: CHEMTREC (800) 424-9300

2. COMPOSITION INFORMATION

Component	CAS #	% by weight
Naphthenic Distillate Mixture	N/A	> 95%

3. HAZARDS IDENTIFICATION

Component	Exposure Limit	Skin	Form
Light naphthenic distillate	5 mg / m ³ OSHA PEL	No	Aerosol
	5 mg / m ³ ACGIH TLV	No	Aerosol

NFPA CLASSIFICATION (0=Least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Health 0, Fire 1, Reactivity 0

HAZARD DESCRIPTION: None

SYMPTOMS OF OVEREXPOSURE: Headache, nausea, respiratory irritation, skin irritation, drowsiness.

4. FIRST AID PROCEDURES

EYE CONTACT: Immediately flush with water for 15 minutes or until irritation subsides.

Obtain medical attention if irritation persists.

SKIN CONTACT: Remove contaminated clothing and wash skin thoroughly with soap and water. Obtain medical attention if irritation persists. Discard contaminated leather articles such as shoes and belt.

INHALATION: Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove victim to fresh air. Give artificial respiration if not breathing. Obtain medical attention if breathing problems persist.

INGESTION: If ingested, DO NOT induce vomiting and DO NOT give liquids. Immediately obtain medical attention. Should a small amount accidentally enter mouth, rinse with water until taste is gone.

5. FIRE FIGHTING MEASURES

Flash Point: >200°F (PMCC)

Autoignition Temperature: >300°C (est.)

Flammability Limits in air: Lower flammable limit 0.8%

Upper flammable limit 7.0%

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EXTINGUISHING MEDIA: Foam, water spray (fog), dry chemical, carbon dioxide, and vaporizing liquid type extinguishing agents.

EXTINGUISHING MEDIA TO AVOID: No information available.

SPECIAL FIREFIGHTING PROCEDURES: Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity. Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse vapors and provide protection for personnel attempting to stop the leak. Water spray may be used to flush spills away from exposures. Minimize breathing gases, vapor, smoke, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

DECOMPOSITION PRODUCTS: Carbon monoxide, sulfur oxides, aldehydes, and others in the case of incomplete combustion.

“EMPTY” CONTAINER WARNING: “Empty” containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition; they may explode and cause injury or death.

Do not attempt to clean since residue is difficult to remove. “Empty” drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to OSHA, ANSI Z 49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

6. ACCIDENTAL RELEASE MEASURES

LARGE SPILLS: Evacuate the hazard area of unprotected personnel. Dike and contain with suitable absorbent. Shut off source of leak only if it is safe to do so. Do not allow to enter sewers or open waterways. Advise authorities if product has entered sewers, waterways, or extensive land areas.

SMALL SPILLS: Extinguish all possible sources of ignition. Take up with absorbent materials such as sand or sawdust and place in non-leaking containers. Dispose of in accordance with all Federal, state, and local regulations.

7. HANDLING AND STORAGE

HANDLING: For industrial use only. Avoid skin and eye contact. Minimize breathing vapor or mist. Respiratory protection is required when ventilation is inadequate. Cleanse skin thoroughly after contact, before breaks and meals, and at the end of a work period. Product is readily removed from skin by waterless hand cleaners following by washing thoroughly with soap and water.

STORAGE: Store in a cool, dry location and in accordance with good industrial practices. Keep containers closed when not in use. Do not handle or store near heat, sparks, flame, or strong oxidizers.

MATERIAL SAFETY DATA SHEET

WHITE CAP FORM OIL VOC

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: Use local exhaust to capture vapor or mists if necessary. Provide ventilation sufficient to prevent exceeding OSHA PELs.

RESPIRATORY PROTECTION: Normally not needed at ambient temperatures. Use OSHA/NIOSH approved supplied-air respiratory protection in confined or enclosed spaces, where mist is present or may be generated, or in event of fire.

SKIN PROTECTION: Use chemical resistant gloves, boots, apron, and other impervious clothing to prevent prolonged or repeated skin contact. Nitrile boots recommended.

EYE PROTECTION: Use splash goggles or face shield when eye contact may occur.

PERSONAL HYGIENE: Remove contaminated clothing and launder or dry clean before reuse. Discard contaminated leather articles such as shoes and belt.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light to amber liquid

ODOR: Characteristic oil

BOILING POINT: 249°C (est.)

VAPOR PRESSURE: Less than 0.01 mm Hg 20°C

SPECIFIC GRAVITY: 0.89

VAPOR DENSITY: Greater than 5.0

EVAPORATION RATE @ STP (n-butyl acetate=1): Less than 0.01

POUR POINT: -45°C

VISCOSITY: 55 SSU @ 100°F

SOLUBILITY IN WATER: Less than 0.1%

10. STABILITY AND REACTIVITY

This product is stable and will not react violently with water. Hazardous polymerization will not occur.

Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite. Do not store with or allow contact with acids.

11. TOXICOLOGICAL INFORMATION

ACUTE EXPOSURE: Tests on similar materials show a low order of acute oral and dermal toxicity. As a precaution, exposure to liquids, vapor, mists, or fumes should be minimized.

EYE EFFECTS: Minimal irritation on contact.

SKIN EFFECTS: May cause mild irritation with prolonged and repeated exposure.

ORAL EFFECTS: Tests on similar materials indicate a low order of acute oral toxicity.

INHALATION EFFECTS: Low acute toxicity expected on inhalation.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: Information may be available, contact Manufacturer.

ECOTOXICITY: Information may be available, contact Manufacturer.

FURTHER INFORMATION: None.

MATERIAL SAFETY DATA SHEET

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13. DISPOSAL CONSIDERATIONS

When disposed of properly, this product does not meet RCRA classification or listing for hazardous waste. Dispose in accordance with all applicable Federal, state, provincial, and local environmental regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

Disposal methods identified are for the product as sold. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permissible under applicable rules, regulations and/or laws governing your location.

14. TRANSPORT INFORMATION

DOT SHIPPING LABEL: **Not regulated by the U.S. DOT**

HAZARD CLASS: Not applicable

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents (DOT P 5800.3).

15. REGULATORY INFORMATION

FEDERAL/NATIONAL

This product is not hazardous as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III (Emergency Planning and Community Right to Know Act) SECTION 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: NONE

TOXIC SUBSTANCES CONTROL ACT (TSCA)

All components of this product are on the TSCA Inventory or are exempt from the TSCA Inventory requirements.

16. OTHER INFORMATION

The information and recommendations contained herein were obtained from sources we believe to be accurate and reliable as of the date revised. However, Manufacturer does not warrant or guarantee their accuracy or reliability, and shall not be liable for any loss or damage arising out of the use thereof. The information and recommendations are offered for the user's consideration and examination and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.

NA – Not Available