



Creating Value Through Innovative Solutions

Material Safety Data Sheet

WhiteCao™ SC Aquatic Herbicide

MSDS Number (05/10/2007)

6 Pages

Section 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

- 1.1 **Product Name** WhiteCap™ SC Aquatic Herbicide EPA REG # 61842-11
 Chemical Family Organic liquid
 Synonyms 4(1H)-pyridione, 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl-; Methyl-3-phenyl-5-(3-trifluoromethyl)-phenyl)-4(1H)-pyridione; Pride; Sonar; Brake; EL-171

 Formula C₁₉H₁₄F₃NO
- 1.2 **Manufacturer** Tessengerlo Kerley Inc.
 2255 N. 44th Street, Suite 300
 Phoenix, Arizona 85008-3279
 Information (602) 889-8300
- 1.3 **Emergency Contact** (800) 877-1737 (Tessengerlo Kerley)
(800) 424-9300 (CHEMTREC)

Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

- 2.1 **Chemical Ingredients (% by wt.)**

Fluridone	CAS #: 59756-60-4	41.7%
Inerts Including Propylene glycol	CAS # 57-55-6	58.3

(See Section 8 for exposure guidelines)

Section 3: HAZARDS IDENTIFICATION

NFPA: Health - 1 Flammability - 0 Reactivity - 0

EMERGENCY OVERVIEW

Avoid contact with eyes – may cause eye irritation. Avoid prolonged/repeated contact with the skin – may cause skin irritation.
Avoid releases to lakes or streams - toxic to aquatic organisms.

Section 3: HAZARDS IDENTIFICATION Cont.**3.1 POTENTIAL HEALTH EFFECTS** (if product not handled in the recommended manner)

EYE: Contact with the eyes may cause slight (temporary) eye irritation. Corneal injury is unlikely.

SKIN CONTACT: Contact with product - repeated/prolonged skin contact may cause slight skin irritation.

SKIN ABSORPTION: Absorption is unlikely to occur.

INGESTION: Single oral dose toxicity is low. Ingestion of product may cause irritation of the gastrointestinal tract possibly resulting in upset stomach, vomiting and/or diarrhea.

INHALATION: Inhalation of product vapors (low) is not considered to be hazardous

CHRONIC EFFECTS/CARCINOGENICITY: Not listed as a carcinogen by NTP, IARC or OSHA. See Section 11, Toxicological Information

Section 4: FIRST AID MEASURES

4.1 EYES: Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye and lids. Obtain immediate medical attention. Continue flushing if medical help not immediately available.

4.2 SKIN: Immediately flush with large quantities of water for 15 minutes. Remove contaminated clothing under a safety shower. Do not neutralize with chemical agents. Obtain medical attention if irritation occurs.

4.3 INGESTION: DO NOT INDUCE VOMITING. Give 1 or 2 glasses of water. If vomiting does occur, repeat fluid administration. If unconscious or convulsing, do not give fluids. Obtain immediate medical attention.

4.4 INHALATION: Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied. Obtain immediate medical attention.

Section 5: FIRE FIGHTING MEASURES**5.1 FLAMMABLE PROPERTIES**

FLASH POINT: 200°F (93.3°C) **METHOD USED:** SCC

5.2 FLAMMABLE LIMITS Not determined

5.3 EXTINGUISHING MEDIA: Product is water based and will not burn. Use extinguishing media as appropriate for combustibles involved in fire.

5.4 FIRE & EXPLOSIVE HAZARDS: Product will not burn unless sufficient water is evaporated. At this point, product will exhibit flammability characteristics of organic portion of the formulation. Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Product will evolve toxic fumes (NO_x, F⁻, Cl⁻) if heated to decomposition.

Section	5:	FIRE FIGHTING MEASURES, Cont.
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Keep containers/storage vessels in fire area cooled with water spray.

5.5 FIRE FIGHTING EQUIPMENT: Wear self-contained breathing apparatus, pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section	6:	ACCIDENTAL RELEASE MEASURES
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6.1 Small releases: Do not wash small spills away. Instead, sprinkle the spill with sawdust, Sorbal or kitty litter to soak up spilled material then shovel up the absorbed material into a suitable container for disposal. Dispose as directed by the pesticide product label.

6.2 Large releases: Cordon off area of spillage and dike area with dirt, sand or other inert material to prevent any further migration. Recover as much of usable product for application (best disposal practice). Handle remaining material as a small spill above.

Section	7:	HANDLING and STORAGE
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7.1 Handling: Keep out of reach of children. Use only in a well ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated contact with the skin and eyes. Wash thoroughly with soap and water after handling. Wash exposed clothing before reuse.

7.2 Storage: Store in cool, dry, well ventilated areas.

Section	8:	EXPOSURE CONTROLS, PERSONAL PROTECTION
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All personnel who handle this product in its end-use application should use this product only in accordance with its pesticide labeling and with the "Worker Protection Standard", 40 CFR 170.

8.1 RESPIRATORY PROTECTION: Use NIOSH approved respirators to avoid breathing product mist.

8.2 SKIN PROTECTION: Where gloves and protective suit to prevent repeated or prolonged contact with the skin.

8.3 EYE PROTECTION: Chemical goggles and a full face shield to prevent contact with face and eyes.

8.4 EXPOSURE GUIDELINES:	OSHA	ACGIH	AIHA
	<u>TWA</u> <u>STEL</u>	<u>TLV</u> <u>STEL</u>	<u>WEEL</u>
Propylene glycol	NA NA	NA NA	50 ppm (aerosol only)

8.5 ENGINEERING CONTROLS: Use adequate exhaust ventilation to prevent inhalation of product vapors.

Section	9:	PHYSICAL and CHEMICAL PROPERTIES.
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9.1 APPEARANCE:	light tan to gray opaque liquid
9.2 ODOR:	slight
9.3 BOILING POINT:	212°F (100 °c) @ STP
9.4 VAPOR PRESSURE:	Approximately 2.3 mm Hg (0.31kPa) @ 25°C
9.5 VAPOR DENSITY:	Not determined
9.6 SOLUBILITY IN WATER:	Disperses in water
9.7 SPECIFIC GRAVITY:	1.15 @ 25°C
9.8 FREEZING POINT:	Not determined
9.9 pH:	(Aqueous 50/50) 8.45
9.10 VOLATILE:	Not Determined
9.11 MELTING POINT	NA

Section	10:	STABILITY and REACTIVITY
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10.1 STABILITY: This is a stable material under normal storage conditions.

10.2 HAZARDOUS POLYMERIZATION: Will not occur.

10.3 HAZARDOUS DECOMPOSITION PRODUCTS: If water evaporates, organic component may cause harmful vapors under fire conditions.

10.4 INCOMPATIBILITY: Avoid freezing.

Section	11:	TOXICOLOGICAL INFORMATION
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11.1 ORAL: Oral-Rat LD₅₀: > 500 mg/kg

11.2 DERMAL: Skin-Rabbit LD₅₀: > 2,000 mg/kg

11.3 INHALATION: INH-Rat LC₅₀: > 2,130 gm/M³ - Fluridone

11.4 CHRONIC/CARCINOGENICITY: Not listed as a carcinogen by NTP, IARC or OSHA.

11.5 TERATOLOGY: Data not available

11.6 REPRODUCTION: Data not available

11.7 MUTAGENICITY: Data not available

Section	12:	ECOLOGICAL INFORMATION
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To avoid impact on threatened or endangered aquatic plant or animal species, users must consult with state fish and game agency or U.S. Fire & Wildlife Service before making applications. Do not contaminate water

when disposing of equipment wash waters. Trees & shrubs growing in water treated with product may occasionally develop chlorosis. Do not apply in tidewater or brackish waters.

Section 12: ECOLOGICAL INFORMATION, Cont.

Daphnia magna, EC₅₀: 3.6 mg/l (48 hrs) - Fluridone
Sheepshead minnow, LC₅₀: 10.7 – 16.7 mg/l (96 hrs) - Fluridone
Bluegill, LC₅₀: 12 mg/l (96 hrs) - Fluridone
Rainbow trout, LC₅₀: 7.7 mg/l (96 hrs) - Fluridone

Section 13: DISPOSAL CONSIDERATIONS

Disposal of product waste should be handled by licensed waste handlers in accordance with all governmental regulations.

Section 14: TRANSPORT INFORMATION

- 14.1 DOT Shipping Name: Not regulated
- 14.2 DOT Hazard Class: NA
- 14.3 UN/NA Number: NA
- 14.4 Packing Group: NA
- 14.5 DOT Placard: NA
- 14.6 DOT Label(s): NA
- 14.7 IMO Shipping Name: NA
- 14.8 RQ (Reportable Quantity): NA
- 14.9 RR STCC Number: NA
- 14.10 DOT/IMO Mark: NA
- 14.11 IATA Shipping Name: NA

Section 15: REGULATORY INFORMATION

- 15.1 OSHA: This product is listed as a hazardous material under criteria of the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- 15.2 SARA TITLE III:
 - a. EHS (Extremely Hazardous Substance) List: No
 - b. Section 311/312, (Tier I,II) Categories:
 - Immediate (acute) Yes
 - Fire No
 - Sudden release No

Reactivity
Delayed (chronic) No
Yes

Section 15: REGULATORY INFORMATION, Cont.

- c. Section 313 (Toxic Release Reporting-Form R): No
- d. **TPQ** (Threshold Planning Quantity): No
- 15.3 CERCLA/SUPERFUND:** RQ (Reportable Quantity) No
- 15.4 TSCA** (Toxic Substance Control Act) Inventory List: Yes
- 15.5 RCRA** (Resource Conservation and Recovery Act) Status: No
- 15.6 WHMIS** (Canada) Hazard Classification: ND
- 15.7 DOT** Hazardous Material: (See Section 14) No
- 15.8 CAA** Hazardous Air Pollutant (HAP) No
- 15.9 FIFRA** Registered pesticide Yes
EPA REG #61842-11
- 15.10 Prop 65 (CA)** No
- 15.11 EU Classification** (Fluridone)
 - Symbol of Danger: N
 - Indication of Danger: Dangerous for the Environment
 - Risk Statements: R51/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - Safety Statements: S60 – This material and its containers must be disposed of as hazardous waste.

Section 16: OTHER INFORMATION

REVISIONS: The entire MSDS was reformatted to comply to ANSI Standard Z400.1-1993, by Technical Services-Tessengerlo Kerley, Inc.

THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND OSHA, ANSI, NFPA, DOT, ERG, AND CHRIS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSARY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE MATERIAL SAFETY DATA SHEETS PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE.
