



**Product: Kold Kleen**

**Date: July 1, 2013**

## Safety Data Sheet

Page 1 of 9

### SECTION 1 - IDENTIFICATION

SDS REVISION #: 007

PRODUCT IDENTIFIER: Kold Kleen

OTHER IDENTIFIERS: 21-042M

RECOMMENDED USE: Freezer cleaner

SUPPLIER: Navy Brand Mfg. Co.  
3670 Scarlet Oak Blvd.  
St. Louis, Mo. 63122

PHONE NUMBERS: Inquiries - (636) 861-5500  
CHEMTEL - (800) 255-3924 (emergencies)

### SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Flammable liquids (Category 2)  
Acute toxicity, Oral (Category 3)  
Acute toxicity, Inhalation (Category 3)  
Acute toxicity, Dermal (Category 3)  
Specific target organ toxicity - single exposure (Category 1)



SIGNAL WORD:  
Danger!

HAZARD STATEMENTS:

Toxic if swallowed, inhaled or in contact with skin. Causes damage to organs, including liver, kidneys and eyes. Highly flammable liquid and vapor.

PRECAUTIONARY STATEMENTS:

**Prevention**

Avoid breathing mist, vapors or spray. Use only outdoors or in a well-ventilated area. Wear protective clothing, gloves and eye and face protection. Wash exposed areas thoroughly after handling. Do not eat, drink or smoke when using this product. Do not eat, drink or smoke when using this product.

Keep away from heat/sparks/open flames/hot surfaces – No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting and handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection.

Section 2 continued on next page

Safety Data Sheet

**SECTION 2 - HAZARDS IDENTIFICATION (continued)**

PRECAUTIONARY STATEMENTS (continued):

**Response**

If on skin (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with shower/water and wash with plenty of soap and water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Rinse mouth. If exposed, or if you feel unwell: Call a poison center/doctor. In case of fire: Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide.

**Storage**

Store locked up, in a well-ventilated place. Keep container tightly closed and cool.

**Disposal**

Dispose of container in accordance with all applicable regulations. This product, if disposed of, is considered a hazardous waste.

HAZARDS NOT OTHERWISE CLASSIFIED: None

**SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Component</u>	<u>%</u>	<u>CAS No.</u>
Methanol	46	67-56-1

**SECTION 4 - FIRST AID MEASURES**

IN CASE OF EYE CONTACT:

Immediately flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Remove contact lenses, if present and easy to do.

IN CASE OF SKIN CONTACT:

Wash exposed area with lots of soap and water. Remove contaminated clothing and launder before re-use.

IF SWALLOWED:

Rinse mouth and drink two large glasses of water. Induce vomiting by giving IPECAC syrup or by sticking finger to back of throat. Keep head below hips to avoid aspiration of material into lungs. Never give anything by mouth to an unconscious person. Get immediate medical attention.

IF INHALED:

If affected, move to fresh air. If breathing has stopped, give artificial respiration and call a physician.

**Safety Data Sheet**

**SECTION 4 - FIRST AID MEASURES (continued)**

**MOST IMPORTANT SYMPTOMS AND EFFECTS:**

Toxic by inhalation, if swallowed, and by skin contact. Irreversible effects, such as blindness may occur.

**NOTES TO PHYSICIAN:**

Effects may be delayed. Administration of ethanol may inhibit metabolism.

**SECTION 5 - FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES:**

This material is a flammable liquid. Vapors are heavier than air, and may travel along the ground to remote ignition sources. Vapors may then ignite explosively.



This material meets the NFPA definition of a Class IB – flammable liquid.

**EXTINGUISHING MEDIA:**

Use dry chemical, carbon dioxide, water fog or alcohol foam. Cool containers with water. Water may be ineffective against large spills of flammable liquids.

**PROTECTION OF FIREFIGHTERS:**

Keep personnel removed from and upwind. Wear full protective clothing and self-contained breathing apparatus with full face-piece. Decomposition/combustion products may include carbon monoxide and carbon dioxide.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES:**

Eliminate all open flames, heat, sparks and other ignition sources from the area of the spill. Use only explosion-proof equipment. Persons not wearing protective equipment should be excluded from the area of the spill until cleanup has been completed.

**CONTAINMENT & CLEAN-UP:**

Dike area of spill with sand or dirt to prevent spreading. Pump liquid to salvage tank or other containers. Remaining liquid may be absorbed on vermiculite or other absorbent material and shoveled into containers.

EPA has designated methanol as a hazardous substance with an RQ of 5000 pounds. Reporting spills of this material to the National Response Center at (800) 424-8802 may be required.

**Safety Data Sheet**

**SECTION 7 - HANDLING AND STORAGE**

**SAFE HANDLING:**

When transferring product from containers, protect against static discharge in accordance with NFPA 77 Part 7.13. Use non-sparking tools and explosion-proof equipment when handling flammable liquids. Vapors are heavier than air and may travel along the ground to remote ignition sources. Vapors may then ignite explosively.

Avoid contact with skin, eyes and clothing. Avoid inhalation of vapors. Wash thoroughly after handling.

**STORAGE:**

Keep in closed or covered containers away from heat, sparks and open flames when not in use. Do not store near oxidizing materials. Store in cool dry place with adequate ventilation.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE GUIDELINES:**

Methanol	OSHA PEL - 200 ppm (skin)
(CAS# 67-56-1)	ACGIH TLV - 200 ppm (skin)
	ACGIH STEL - 250 ppm

**ENGINEERING CONTROLS:**

Provide sufficient ventilation to maintain exposure below established exposure limits.

**EYE / FACE PROTECTION:**

Chemical splash goggles and full face-shield, in compliance with OSHA regulations, are advised.

**SKIN PROTECTION:**

Wear protective gloves (nitrile rubber, Buna-N, or butyl rubber), impervious clothing or apron and boots are recommended.

**RESPIRATORY PROTECTION:**

A NIOSH/MSHA approved supplied air respirator or canister-type respirator equipped with organic vapor cartridge is recommended if exposure exceeds established exposure limits.

Safety Data Sheet

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Colorless liquid @ 77° F (25° C)  
**Odor:** Alcohol  
**Specific Gravity:** 0.79 @ 68° F (20° C)  
**Initial Boiling Point:** 147° F (64.5° C)  
**Melting Point:** -144° F (-98° C)  
**Vapor Pressure** (mm Hg): 97 @ 68° F (20° C)  
**Vapor Density** (Air = 1): 1.11  
**Evaporation Rate:** 5.9  
(Butyl acetate = 1)

**Solubility in Water:** 100%  
**Volatile %:** 100%  
**pH:** Unavailable  
**Partition Coefficient:** Log P<sub>ow</sub> -0.77  
(n-octanol/water)  
**Flash Point:** 54° F (12° C) CC  
**Upper Explosion Limit:** 36.5  
**Lower Explosion Limit:** 6.0  
**Autoignition Temperature:** 867° F (464° C)

**SECTION 10 - STABILITY AND REACTIVITY**

REACTIVITY:

Flammable liquid

STABILITY (conditions to avoid):

Stable under normal conditions of 70° F (21° C) and 14.7 psig (760 mm Hg)

POSSIBILITY OF HAZARDOUS REACTIONS:

Reacts violently with strong oxidizing materials. Vapors form explosive mixtures in air.

CONDITIONS TO AVOID:

Keep away from excessive heat, sparks, open flames and direct sunlight

INCOMPATIBLE MATERIALS:

Incompatible with strong oxidizing agents and strong acids

HAZARDOUS DECOMPOSITION PRODUCTS:

Not anticipated under normal conditions of use. Combustion will generate carbon dioxide, carbon monoxide and formaldehyde.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

LIKELY ROUTES OF EXPOSURE:

Skin and eye contact and inhalation

SYMPTOMS:

Symptoms of persons exposed to this material include headache, nausea, dizziness, drowsiness and drying or defatting of skin.

Section 11 continued on next page

Safety Data Sheet

**SECTION 11 - TOXICOLOGICAL INFORMATION (continued)**

EFFECTS FROM EXPOSURE:

**Immediate:** Causes drying and defatting off skin, headache, nausea, dizziness and drowsiness and, in extreme cases, unconsciousness and coma.

**Delayed:** Symptoms may be delayed. Toxic by ingestion, inhalation or skin contact. Can cause metabolic acidosis, blindness, seizures, liver and kidney damage, unconsciousness, coma and death.

**Chronic:** May cause liver and kidney damage

TOXICITY DATA:

Toxicological information is based on information found in NIOSH Registry of Toxic Effects of Chemical Substances.

SKIN & EYE IRRITATION

- Human (eye) - 5 ppm.
- Rabbit (skin) - 500 mg/24H (moderate).
- Rabbit (eye) - 40 mg (moderate)

TOXICITY DATA

- Inhalation                      Rat LC<sub>Lo</sub> - 64000 ppm/4H
  
- Intraperitoneal Rat LD<sub>50</sub> - 9540 mg/kg
  
- Oral                              Human LD<sub>Lo</sub> - 340 mg/kg  
                                      Man LD<sub>Lo</sub> - 13 gm/kg  
                                      Mouse LD<sub>50</sub> - 870 mg/kg  
                                      Rat LD<sub>50</sub> - 5628 mg/kg
  
- Intravenous                    Mouse LD<sub>50</sub> - 5673 mg/kg
  
- Subcutaneous Mouse LD<sub>50</sub> - 9800 mg/kg
  
- Skin                              Rabbit LD<sub>50</sub> - 20 gm/kg
  
- Unreported                    Man LD<sub>Lo</sub> - 868 mg/kg

CARCINOGENICITY

This product is not reported to have any carcinogenic effects. This product (or component) is not listed in IARC Monographs, the current NTP Report on Carcinogens or the current ACGIH TLVs as a carcinogen or potential carcinogen. OSHA does not regulate it as a carcinogen.

Safety Data Sheet

**SECTION 12 - ECOLOGICAL INFORMATION**

ECOTOXICITY:

- 96-hr. LC<sub>50</sub> - *Lepomis macrochirus* (Bluegill) - 15,400 mg/l
- NOEC - *Oryzias latipes* - 7,900 mg/l - 200 hr
- 48-hr. EC<sub>50</sub> - *Daphnia magna* (Water flea) - > 10,000 mg/l
- 96-hr Growth inhibition EC<sub>50</sub> - *Scenedesmus capricornutum* (algae) - 22,000 mg/l

PERSISTENCE AND BIODEGRADABILITY

Readily biodegradable

BIOACCUMULATIVE POTENTIAL:

Does not bioaccumulate  
Partition Coefficient (n-Octanol/water) - log P<sub>ow</sub> -0.77

MOBILITY IN SOIL:

The product is mobile in soil.

PBT AND VPVB ASSESSMENT

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

OTHER ADVERSE EFFECTS:

Biochemical Oxygen Demand (BOD): 600 - 1,120 mg/g  
Chemical Oxygen Demand (COD): 1,420 mg/g

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Incineration is the recommended disposal method for all chemical wastes such as this product. Material collected on absorbent material may be deposited in a landfill in accordance with all applicable local, state and federal regulations.

This product, if disposed of, is considered a hazardous waste (U154) under current RCRA regulations.

**SECTION 14 - TRANSPORT INFORMATION**

U.S. DOT SHIPPING REGULATIONS:

- UN Number: 1230
- Shipping name: Methanol
- Hazard Class: 3 (flammable liquid)
- Packing Group: II
- Reportable Quantity: 5000 pounds

Label:



Section 14 continued on next page

Safety Data Sheet

**SECTION 14 - TRANSPORT INFORMATION**

IMO and ICAO SHIPPING REGULATIONS:

UN Number: 1230  
Shipping name: Methanol  
Hazard Class: 3 (6.1)  
Packing Group: II  
Reportable Quantity: 5000 pounds

Labels:



**SECTION 15 - REGULATORY INFORMATION**

TSCA INFORMATION:

All components in this product are in compliance with TSCA Inventory requirements.

EINECS:

All components in this product are on the European Inventory of Existing Chemical Substances (200-659-6).

CEPA:

All components in this product are listed on the Canadian Domestic Substances List (DSL).

WHMIS Classification:

B-2: Flammable Liquid  
D-1B: Toxic (acute effects)  
D-2B: Toxic (skin and eye irritant)

CERCLA:

Methanol has been designated as hazardous substances with an RQ of 5000#.

SARA:

**CERCLA/SARA 302:** Not applicable  
**CERCLA/SARA 311/312:** Acute, chronic, fire  
**CERCLA/SARA 313:** Methanol (CAS# 67-56-1) – 100%



**Safety Data Sheet**

**SECTION 16 - OTHER INFORMATION**

PREPARATION DATE: July 1, 2013  
SUPERCEDES: Revision 6, dated March 3, 2011  
REASON FOR REVISION: Updated to GHS

HMIS HAZARD RATING:

HEALTH	3	0 - LEAST
FIRE	3	1 - SLIGHT
REACTIVITY	0	2 - MODERATE
OTHER	-	3 - HIGH
		4 - EXTREME

The product information contained herein is believed to be accurate as of the date of the Safety Data Sheet, and is provided without warranty, expressed or implied, as to the results of use of this information or the product to which it relates. Recipient assumes all responsibility for the use of this information and the use (alone or in combination with any other product), storage or disposal of the product, including any resultant personal injury or property damage.

\*\*\*\*END OF REPORT\*\*\*\*