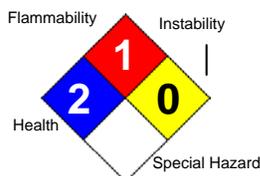


# Klean Strip Heavy Bodied Metal & Masonry Paint Remover

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL		0
PPE		X



Printed: 01/10/2014  
Revision: 08/17/2010  
Supercedes Revision: 05/07/2004

## 1. Product and Company Identification

**Product Code:** 3300.6

**Product Name:** Klean Strip Heavy Bodied Metal & Masonry Paint Remover

**Manufacturer Information**

**Company Name:** W. M. Barr  
2105 Channel Avenue  
Memphis, TN 38113

**Phone Number:** (901)775-0100

**Emergency Contact:** 3E 24 Hour Emergency Contact (800)451-8346

**Information:** W.M. Barr Customer Service (800)398-3892

**Web site address:** www.wmbarr.com

**Preparer Name:** W.M. Barr EHS Dept (901)775-0100

**Intended Use:** Removes paint, enamel, epoxy, lacquer, and polyurethane from metal and masonry.

**Synonyms**  
GHB2

## 2. Hazards Identification

### GHS Hazard Phrases

No data available.

### GHS Precaution Phrases

No data available.

### GHS Response Phrases

No data available.

### GHS Storage and Disposal Phrases

No data available.

### Potential Health Effects (Acute and Chronic)

This product has not been tested as a whole to determine health effects. The health effects listed below are associated with the individual ingredients listed in Section 3.

**EYES:** Causes eye irritation. May cause tearing, redness, stinging or burning, swelling, and blurred vision. May cause corneal injury.

**SKIN:** May cause effects ranging from mild irritation to severe pain, and possibly burns, depending on the intensity of contact. Skin absorption may occur.

**INHALATION:** May cause upper respiratory tract irritation and central nervous system depression with symptoms such as confusion, lightheadedness, dizziness, nausea, vomiting, headache, and fatigue. Causes formation of carbon monoxide in blood which may affect the cardiovascular system and central nervous system, and can cause a lack of oxygen in the blood. Continued exposure may cause unconsciousness, coma, and even death.

**INGESTION:** May cause nausea, vomiting, and diarrhea. May cause central nervous system excitement,

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followed by headache, dizziness, and drowsiness. If vomiting results in aspiration, chemical pneumonia could occur, which may be fatal. Absorption through the gastrointestinal tract may produce central nervous system depression. May cause kidney damage. May cause blurred vision and visual impairment (including blindness).

**CHRONIC OVEREXPOSURE EFFECTS:** May cause liver and kidney damage. May cause cancer based on animal data (methylene chloride). Prolonged or repeated skin contact may cause defatting and dermatitis.

Methanol has caused birth defects in laboratory animals, but only when inhaled at extremely high vapor concentrations. The relevance of this finding to humans is uncertain.

Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. Intentional misuse by deliberately concentrating and inhaling solvents may be harmful or fatal.

**ADDITIONAL DATA:**

For Methylene Chloride: Alcohol may enhance the toxic effects. May cross the placenta. May be excreted in breast milk. Concurrent exposure to carbon monoxide, smoking, or physical activity may increase the level of carboxyhemoglobin in the blood resulting in additive effects.

**TARGET ORGANS:** blood, central nervous system, liver, skin, cardiovascular system, eyes, kidney, pancreas, heart, lungs, brain

**PRIMARY ROUTES OF ENTRY:** skin, eyes, inhalation, ingestion

**Medical Conditions Generally Aggravated By Exposure**

Disorders of the: heart or cardiovascular system, kidney, liver, nervous system, respiratory system (including asthma and other breathing disorders), skin, and allergies

**OSHA Regulatory Status:**

This material is classified as hazardous under OSHA regulations.

**3. Composition/Information on Ingredients**

Hazardous Components (Chemical Name)	CAS #	Concentration
1. Dichloromethane {Methylene chloride; R-30; Freon 30}	75-09-2	75.0 -85.0 %
2. Isopropyl alcohol {sec-Propyl alcohol; IPA; 2-Propanol}	67-63-0	3.0 -7.0 %
3. Methanol {Methyl alcohol; Carbinol; Wood alcohol}	67-56-1	< 4.0 %
4. Ethyl alcohol {Ethanol}	64-17-5	1.0 -5.0 %

**4. First Aid Measures****Emergency and First Aid Procedures****Skin:**

Remove contaminated clothing. Immediately wash skin thoroughly with large amounts of water and mild soap while removing contaminated clothing. Seek medical attention if irritation develops or persists.

**Eyes:**

Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes. Seek medical attention.

**Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

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**Ingestion:**

If swallowed, do NOT induce vomiting. Seek immediate medical attention. Call a physician, hospital emergency room, or poison control center immediately. Never give anything by mouth to an unconscious person.

**Note to Physician**

THIS PRODUCT CONTAINS METHYLENE CHLORIDE AND LESS THAN 4% METHANOL.

This product contains methanol which can cause intoxication and central nervous system depression. Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively removed by hemodialysis. Adrenalin should never be given to a person overexposed to methylene chloride.

Methylene Chloride is an aspiration hazard. Risk of aspiration must be weighed against possible toxicity of the material when determining whether to induce emesis or to perform gastric lavage. This material sensitizes the heart to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmia in individuals exposed to this material. This material is metabolized to carbon monoxide. Consequently, elevations in carboxyhemoglobin as high as 50% have been reported, and levels may continue to rise for several hours after exposure has ceased. Data in experimental animals suggest there is a narrow margin between concentrations causing anesthesia and death.

**Signs and Symptoms Of Exposure**

See Potential Health Effects

**5. Fire Fighting Measures**

**Flash Pt:**

No data.

**Explosive Limits:**

LEL: No data.

UEL: No data.

**Autoignition Pt:**

No data available.

**Fire Fighting Instructions**

Self-contained respiratory protection should be provided for fire fighters fighting fire in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flames.

**Flammable Properties and Hazards**

FLASHPOINT: No flash to boiling.

**Hazardous Combustion Products**

carbon monoxide, carbon dioxide, hydrogen chloride, chlorine, phosgene

**Suitable Extinguishing Media**

Use carbon dioxide, dry powder, foam, or water spray.

**Unsuitable Extinguishing Media**

None known.

**6. Accidental Release Measures**

**Steps To Be Taken In Case Material Is Released Or Spilled**

Clean up: Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area. Use non-sparking tools. Use proper bonding and grounding methods for all equipment and processes. Keep out of waterways and bodies of water. Be cautious of vapors collecting in small enclosed spaces, sewers, low lying areas, confined spaces, etc.

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Small spills: Take up with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable.

Large spills: Dike far ahead of spill for reclamation or disposal.

Waste Disposal: Dispose in accordance with applicable local, state and federal regulations.

## 7. Handling and Storage

### Precautions To Be Taken in Handling

Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

Avoid breathing of vapors or mist. Avoid contact with eyes and skin.

A source of clean water should be available in or near the work area for flushing of the eyes and skin if contact occurs.

### Precautions To Be Taken in Storing

Store in a cool dry place. Exposure to high temperature or prolonged exposure to sun may cause can to leak or swell. Once opened, remover should be used within six months or discarded to avoid can deterioration. Do not store near flames or at elevated temperatures.

## 8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA TWA	ACGIH TWA	Other Limits
1. Dichloromethane {Methylene chloride; R-30; Freon 30}	75-09-2	PEL: 25 ppm STEL: 125 ppm (15 min)	TLV: 50 ppm	No data.
2. Isopropyl alcohol {sec-Propyl alcohol; IPA; 2-Propanol}	67-63-0	PEL: 400 ppm	TLV: 200 ppm STEL: 400 ppm	No data.
3. Methanol {Methyl alcohol; Carbinol; Wood alcohol}	67-56-1	PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.
4. Ethyl alcohol {Ethanol}	64-17-5	PEL: 1000 ppm	TLV: 1000 ppm	No data.

### Respiratory Equipment (Specify Type)

For use in areas with inadequate ventilation or fresh air, wear a properly maintained and properly fitted NIOSH approved self-contained breathing apparatus or powered air supply respirator or loose fitting hood.

For OSHA controlled work places and other regular users - Use only with adequate ventilation under engineered air control systems designed to prevent exceeding the appropriate TLV.

A dust mask does not provide protection against vapors.

### Eye Protection

Safety glasses, chemical goggles, or face shields are recommended to safeguard against potential eye contact, irritation, or injury. Chemical goggles or face shields are recommended when splashing or spraying of chemical is possible. A faceshield provides more protection to help reduce chemical contact to the face and eyes.

### Protective Gloves

Wear gloves with as much resistance to the chemical ingredients as possible. Laminate film gloves offer the best protection. Other glove materials, such as nitrile rubber, neoprene, and PVC will be degraded by methylene chloride, but may provide protection for some amount of time, based on the type of glove and the conditions of use. Consult your glove supplier for additional information. Gloves contaminated with product should be discarded and not reused.

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## Other Protective Clothing

Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure.

## Engineering Controls (Ventilation etc.)

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Use only with adequate ventilation to prevent buildup of vapors. Do not use in areas where vapors can accumulate and concentrate, such as basements, bathrooms or small enclosed areas. Whenever possible, use outdoors in an open air area. If using indoors open all windows and doors and maintain a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea or eye-watering -- STOP -- ventilation is inadequate. Leave area immediately and move to fresh air.

## Work/Hygienic/Maintenance Practices

Wash hands thoroughly after use and before eating, drinking, or smoking.

Do not eat, drink, or smoke in the work area.

Discard any clothing or other protective equipment that cannot be decontaminated.

Facilities storing or handling this material should be equipped with an emergency eyewash and safety shower.

## 9. Physical and Chemical Properties

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid

**Melting Point:** No data.

**Boiling Point:** 100 F - 210 F

**Autoignition Pt:** No data.

**Flash Pt:** No data.

**Specific Gravity (Water = 1):** 1.18

**Density:** 9.813 LB/GL at 75 F

**Vapor Pressure (vs. Air or mm Hg):** 14 MM HG at 20 C

**Vapor Density (vs. Air = 1):** > 1

**Evaporation Rate:** < 1

**Solubility in Water:** Slight

**Percent Volatile:** 94 % by weight.

**VOC / Volume:** 12 % WT

**pH:** 9.4 - 10.4

## Appearance and Odor

Free and clear

## 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]

## Conditions To Avoid - Instability

No data available.

## Incompatibility - Materials To Avoid

Bases, oxygen, sodium, potassium, strong oxidizers, reactive metals, strong acids, halogens, aldehydes

## Hazardous Decomposition Or Byproducts

Thermal decomposition may produce hydrogen chloride, chlorine gas, small quantities of phosgene, carbon monoxide, and carbon dioxide.

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**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions**

Will not occur.

## 11. Toxicological Information

**Toxicological Information**

This product has not been tested as a whole. Information below will be for individual ingredients.

Methylene Chloride:

**ACUTE TOXICITY:**

LC50 Rat inhalation 52 mg/L 4 hrs

LD50 Rat oral 985-1600 mg/kg

**SKIN CORROSION / IRRITATION:**

810 mg/24 hr skin rabbit - severe

100 mg/24 hr skin rabbit - moderate

**SERIOUS EYE DAMAGE / IRRITATION:**

162 mg eyes rabbit - moderate

10 mg eyes rabbit - mild

500 mg/24 hr eyes rabbit - mild

**RESPIRATORY OR SKIN SENSITIZATION:** Not a respiratory or skin sensitizer.

**ASPIRATION HAZARD:** Methylene chloride does present an aspiration hazard.

**MUTAGENIC DATA:** Positive results have been observed in the Ames test. In mammalian systems, responses have generally been negative.

**IMMUNOTOXICITY:** A study found there was no evidence of harm to the immune system of laboratory animals or reduced ability to combat disease.

**NEUROTOXICITY:** Tests in rats indicate no significant neurotoxic effects after exposure to concentrations up to 2,000 ppm for 90 days. No neurotoxic effects have been observed in humans at typical occupational exposure levels.

**DEVELOPMENTAL/REPRODUCTIVE:** No significant developmental effects were observed in female rats and mice exposed to 1,250 ppm during gestation. A similar result was observed in rats exposed to 4,500 ppm before and during gestation. A two-generation inhalation study showed no adverse reproductive effects in rats exposed to as much as 1,500 ppm for 14 weeks.

**CARCINOGEN STATUS:** Methylene chloride is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that are not considered relevant to worker exposure. Available epidemiological studies do not confirm an increased risk of cancer in humans.

Available evidence suggests that this material is not likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.

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Isopropanol:

**ACUTE TOXICITY:**

LD50 Rat oral 5045 mg/kg

LD50 Rabbit oral 8.0 g/kg

LD50 Rabbit skin 12,800 mg/kg

**SKIN CORROSION / IRRITATION:** Skin irritant.

**SERIOUS EYE DAMAGE / IRRITATION:** Eye irritant.

**RESPIRATORY OR SKIN SENSITIZATION:** Not a sensitizer.

**ASPIRATION HAZARD:** Aspiration hazard.

**MUTAGENIC DATA:** No data.

**IMMUNOTOXICITY:** No data.

**NEUROTOXICITY:** No data.

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DEVELOPMENTAL/REPRODUCTIVE: Experimental teratogenic and reproductive effects have been reported for isopropanol. A rat & rabbit developmental toxicity study showed no teratogenic effects at doses that were clearly maternally toxic.

CARCINOGEN STATUS: Not classifiable as a human carcinogen.

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Methanol:

ACUTE TOXICITY:

LD50 Rat oral 5628 mg/kg

LC50 Rat inhalation 64000 ppm/4 hr

LC50 Rat inhalation 87.5 mg/L/6 hr

LD50 Mouse oral 7300 mg/kg

SKIN CORROSION / IRRITATION: LD50 Rabbit dermal 15,800 mg/kg bw

SERIOUS EYE DAMAGE / IRRITATION: Methanol is a mild to moderate eye irritant.

RESPIRATORY OR SKIN SENSITIZATION: Not a respiratory or skin sensitizer.

ASPIRATION HAZARD: Methanol presents an aspiration hazard.

MUTAGENIC DATA: No data.

IMMUNOTOXICITY: No data.

NEUROTOXICITY: Overexposure to methanol has been suggested as causing central nervous system damage in laboratory animals.

DEVELOPMENTAL/REPRODUCTIVE: The inhalation of methanol by pregnant rodents throughout the period of embryogenesis induces a wide range of concentration-dependent teratogenic and embryolethal effects.

Methanol has caused birth defects in laboratory animals, but only when inhaled at extremely high vapor concentrations. The relevance of this finding to humans is uncertain.

CARCINOGEN STATUS: There is no evidence from animal studies to suggest methanol is a carcinogen.

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Ethanol:

ACUTE TOXICITY:

LD50 Rat oral 7060 mg/kg

LC50 Rat inhalation 20000 ppm/ 10 hr

SKIN CORROSION / IRRITATION: Skin irritant.

SERIOUS EYE DAMAGE / IRRITATION: Eye irritant. Will cause burning and stinging.

RESPIRATORY OR SKIN SENSITIZATION: Ethanol has been shown to have a weak skin sensitizing potential in a very small percentage of the population.

ASPIRATION HAZARD: No data.

MUTAGENIC DATA: No data.

IMMUNOTOXICITY: No data.

NEUROTOXICITY: The clinical features of ethanol intoxication in a nontolerant individual are related to blood alcohol levels: at 50 to 150 mg/dL (0.05 to 0.15%), there is mild intoxication: slight impairment of visual acuity, muscular incoordination, and reaction time; and mood personality, and behavioral changes; at 150 to 300 mg/dL (0.15 to 0.30%), moderate intoxication occurs, resulting in visual impairment, sensory loss, muscular incoordination, slowed reaction time, and slurred speech; at 300 to 500 mg/dL (0.30 to 0.50%), there is severe intoxication characterized by marked muscular incoordination, blurred or double vision, sometimes stupor and hypothermia, vomiting and nausea, and occasional hypoglycemia and convulsions; and at > 400 mg/dL (0.40%), there are coma, respiratory depression, hypotension and hypothermia, and death from respiratory or circulatory failure or as a result of aspiration of stomach contents in the absence of a gag reflex.

DEVELOPMENTAL/REPRODUCTIVE: Prenatal exposure to ethanol (as alcoholic beverages) is associated with a distinct pattern of congenital malformations that have been collectively termed the fetal alcohol syndrome. There have been no reports of fetal alcohol syndrome as a result of industrial exposure by the oral, dermal, or inhalation routes.

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CARCINOGEN STATUS: Not classifiable as a human carcinogen.

CAS# 67-56-1:

Reproductive Effects:, TDLo, Oral, Rat, 42.00 mL/kg, 21 day after birth.

Result:

Effects on Newborn: Behavioral.

- Neurotoxicology and Teratology., Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY 10523,  
Vol/p/yr: 24,519, 2002

Mutagenicity:, Mutation test: DNA damage., Oral, Rat, 10.00 UMOL/KG.

Result:

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.

Tumorigenic:Tumors at site of application.

- Environmental Mutagenesis., For publisher information, see EMMUEG, New York, NY, Vol/p/yr: 4,317, 1982

Acute toxicity, LD50, Oral, Rat, 5628. MG/KG.

Result:

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

- Gigiena Truda i Professional'nye Zabolevaniya.(Labor Hygiene and Occupational Disease), V/O  
Mezhdunarodnaya Kniga, Moscow 113095 Russia, Vol/p/yr: 19(11),27, 1975

Acute toxicity, LC50, Inhalation, Rat, 64000. PPM, 4 H.

Result:

Behavioral: Altered sleep time (including change in righting reflex).

Behavioral: Somnolence (general depressed activity).

Lungs, Thorax, or Respiration:Dyspnea.

- Raw Material Data Handbook, Vol.1: Organic Solvents, 1974., National Assoc. of Printing Ink Research  
Institute, Francis McDonald Sinclair Memorial Labor, Lehigh Univ., Bethlehem, PA 18015, Vol/p/yr: 1,74, 1974

Acute toxicity, TDLo, Oral, Rat, 3.000 gm/kg.

Result:

Liver: Other changes.

- Toxicologist., Soc. of Toxicology, Inc., 475 Wolf Ledge Parkway, Akron, OH 44311, Vol/p/yr: 72,315, 2003

Standard Draize Test, Skin, Species: Rabbit, 20.00 MG, 24 H, Moderate.

Result:

Blood:Other changes.

Biochemical: Metabolism (Intermediary): Other proteins.

- Prehled Prumyslove Toxikologie, Marhold, J., Organické Latky, Prague Czechoslovakia, Vol/p/yr: -,187, 1986

Standard Draize Test, Eyes, Species: Rabbit, 40.00 MG, Moderate.

Result:

Blood:Other hemolysis with or without anemia.

Blood:Other changes.

Biochemical: Metabolism (Intermediary): Other proteins.

- Union Carbide Data Sheet, Union Carbide Corp., 39 Old Ridgebury Rd., Danbury, CT 06817, Vol/p/yr: 3/24,  
1970

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Standard Draize Test, Eyes, Species: Rabbit, 100.0 MG, 24 H, Moderate.

Result:

Blood: Changes in serum composition (e.g.

Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: Phosphatases.

Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: Transaminases.

- Prehled Prumyslove Toxikologie, Marhold, J., Organicke Latky, Prague Czechoslovakia, Vol/p/yr: -,187, 1986

**Chronic Toxicological Effects**

This product has not been tested as a whole.

**Carcinogenicity/Other Information**

IARC 2B - Possibly Carcinogenic to Humans

ACGIH A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Dichloromethane {Methylene chloride; R-30; Freon 30}	75-09-2	Possible	2B	A3	Yes
2. Isopropyl alcohol {sec-Propyl alcohol; IPA; 2-Propanol}	67-63-0	n.a.	3	A4	n.a.
3. Methanol {Methyl alcohol; Carbinol; Wood alcohol}	67-56-1	n.a.	n.a.	n.a.	n.a.
4. Ethyl alcohol {Ethanol}	64-17-5	n.a.	1	A4	n.a.

**12. Ecological Information****General Ecological Information**

This product has not been tested as a whole. Information below will be for individual ingredients.

Methylene Chloride:

TOXICITY: LC50 310 mg/L 96 hrs (static) Fathead Minnow; LC50 220 mg/L 96 hrs (static) Bluegill Sunfish;

LC50 256 mg/L 96 hrs Mysid Shrimp

PERSISTENCE AND DEGRADABILITY: If released to air, a vapor pressure of 435 mm Hg at 25 deg C indicates dichloromethane will exist solely as a vapor in the ambient atmosphere. This material released to the atmosphere will degrade by reaction with hydroxyl radicals with a half-life of several months. It is not subject to direct photooxidation. On land is expected to evaporate rapidly into the atmosphere due to its high vapor pressure. It is poorly adsorbed to soil and can leach into the groundwater. Calculated Adsorption Coefficient (log KOC) is 1. This material is subject to rapid evaporation, with estimated evaporative half-lives ranging from 3 to 5.6 hours under moderate mixing conditions. This material has a negligible rate of hydrolysis. Biodegradation may occur in groundwater, but will be very slow compared with evaporation.

BIOACCUMULATIVE POTENTIAL: Bioconcentration potential in aquatic organisms is low with BCF of 2.

MOBILITY IN SOIL: If released to soil, dichloromethane is expected to have very high mobility based upon an estimated Koc of 24.

OTHER ADVERSE EFFECTS: No data.

Isopropanol:

TOXICITY:

LC50 Fathead minnow >1,000 ppm 96 hr

LC50 Daphnia >1,000 ppm 96 hr

Isopropanol has a high biochemical oxygen demand and a potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism.

PERSISTENCE AND DEGRADABILITY: High potential to biodegrade/low persistence with unacclimated microorganisms from activated sludge.

BIOACCUMULATIVE POTENTIAL: The potential for bioconcentration in aquatic organisms is low.

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MOBILITY IN SOIL: Expected to have very high mobility in soil.

OTHER ADVERSE EFFECTS: No data.

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Ethanol:

**TOXICITY:**

LC50 *Salmo gairdnerii* (Rainbow trout) 13000 mg/L/96 hr at 12 deg C (95% Confidence limit 12000-16000 mg/L), wt 0.8 g /Static bioassay/

LC50 *Pimephales promelas* (fathead minnows) 15.3 g/L/96 hr (95% confidence limit 14.0-16.6 g/L); age 30 days old, water hardness 47.3 mg/L (CaCO<sub>3</sub>), temp 24.3 deg C, pH 7.60, dissolved oxygen 6.8 mg/L, alkalinity 43.7 mg/L (CaCO<sub>3</sub>); tank vol: 6.3 L; additions: 3.81 vol/day /Flow-through bioassay/

**PERSISTENCE AND DEGRADABILITY:** If released to the atmosphere, an extrapolated vapor pressure of 59.3 mm Hg at 25 deg C indicates that ethanol will exist solely in the vapor phase. Vapor phase ethanol is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 5 days. Volatilization from moist soil surfaces is expected to be an important fate process based upon a Henry's Law constant of  $5 \times 10^{-6}$  atm-cu m/mole. Ethanol may also volatilize from dry soils based upon its vapor pressure. Biodegradation is expected to occur rapidly in the environment based on numerous screening tests using different types of inocula and incubation periods. Ethanol was degraded with half-lives on the order of a few days using microcosms constructed with a low organic sandy soil and groundwater, indicating it is unlikely to be persistent in the environment.

**BIOACCUMULATIVE POTENTIAL:** If released into water, ethanol is not expected to adsorb to suspended solids and sediment based upon the estimated Koc. An estimated BCF of 3 suggests the potential for bioconcentration in aquatic organisms is low.

**MOBILITY IN SOIL:** If released to soil, ethanol is expected to have very high mobility based upon an estimated Koc of 1.

OTHER ADVERSE EFFECTS: No data.

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Methanol:

**TOXICITY:** Methanol is of low toxicity to aquatic organisms. LC50 *Pimephales promelas* (fathead minnows) 29.4 g/L/96 hr, (28-29 days old), confidence limit= 28.5-30.4; Test conditions: Water temp= 25 deg C, dissolved oxygen= 7.3 mg/L, water hardness= 43.5 mg/l calcium carbonate, alkalinity= 46.6 calcium carbonate, tank volume= 6.3 L, additions= 5.71 V/D, pH= 7.66 (0.03).

**PERSISTENCE AND DEGRADABILITY:** If released to the atmosphere, a vapor pressure of 127 mm Hg at 25 deg C indicates that methanol will exist solely in the vapor phase. Vapor phase methanol is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 17 days. Volatilization from moist soil surfaces is expected to be an important fate process based upon a Henry's Law constant of  $4.55 \times 10^{-6}$  atm-cu m/mole. Methanol may also volatilize from dry soils based upon its vapor pressure. Biodegradation of methanol in soils is expected to occur rapidly based on half-lives in a sandy silt loam from Texas and a sandy loam from Mississippi of 1 and 3.2 days, respectively. If released into water, methanol is not expected to adsorb to suspended solids and sediment based upon the estimated Koc. Volatilization from water surfaces is expected to be an important fate process based upon this compound's Henry's Law constant. Estimated volatilization half-lives for a model river and model lake are 3 and 35 days, respectively. Biodegradation is expected to occur in natural waters since methanol is degraded quickly in soils and was biodegraded rapidly in various aqueous screening tests using sewage seed or activated sludge. Hydrolysis of methanol and photolysis in sunlit surface waters are not expected since methanol lacks functional groups that are susceptible to hydrolysis or photolysis under environmental conditions.

**BIOACCUMULATIVE POTENTIAL:** BCF values of less than 10, measured in fish suggests bioconcentration in aquatic organisms is low.

**MOBILITY IN SOIL:** If released to soil, methanol is expected to have very high mobility based upon an

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estimated Koc of 1.

## Results of PBT and vPvB assessment

CAS# 67-56-1:

LC50, Fathead Minnow (*Pimephales promelas*), 28400. MG/L, 24 H, Mortality, Water temperature: 25 C C.

Result:

Sex Effects.

- Toxicity and Metabolism Studies with EPA (Environmental Protection Agency) Priority Pollutants and Related Chemicals in Freshwater Organisms, Call, D.J., L.T. Brooke, N. Ahmad, and J.E. Richter, 1983

LC50, Fathead Minnow (*Pimephales promelas*), 28400. MG/L, 48 H, Mortality, Water temperature: 25 C C.

Result:

Sex Effects.

- Toxicity and Metabolism Studies with EPA (Environmental Protection Agency) Priority Pollutants and Related Chemicals in Freshwater Organisms, Call, D.J., L.T. Brooke, N. Ahmad, and J.E. Richter, 1983

LC50, Fathead Minnow (*Pimephales promelas*), 28100. MG/L, 96 H, Mortality, Water temperature: 25 C C.

Result:

Sex Effects.

- Toxicity and Metabolism Studies with EPA (Environmental Protection Agency) Priority Pollutants and Related Chemicals in Freshwater Organisms, Call, D.J., L.T. Brooke, N. Ahmad, and J.E. Richter, 1983

LC50, Water Flea (*Daphnia magna*), larva(e), 100000. UG/L, 96 H, Mortality, Water temperature: 20 C C, pH: 8.50.

Result:

Sex Effects.

- Simultaneous Evaluation of the Acute Effects of Chemicals on Seven Aquatic Species, Ewell, W.S., J.W. Gorsuch, R.O. Kringle, K.A. Robillard, and R.C. Spiegel, 1986

LC50, Water Flea (*Daphnia magna*), neonate, 4816. MG/L, 24 H, Mortality, Water temperature: 20 C C.

Result:

Age Effects.

- Acute Toxicity Test with *Daphnia magna*: An Alternative to Mammals in the Prescreening of Chemical Toxicity?, Guilhermino, L., T. Diamantino, M.C. Silva, and A.M.V.M. Soares, 2000

LC50, Water Flea (*Daphnia magna*), neonate, 3289. MG/L, 48 H, Mortality, Water temperature: 20 C C.

Result:

Age Effects.

- Acute Toxicity Test with *Daphnia magna*: An Alternative to Mammals in the Prescreening of Chemical Toxicity?, Guilhermino, L., T. Diamantino, M.C. Silva, and A.M.V.M. Soares, 2000

## 13. Disposal Considerations

### Waste Disposal Method

Dispose in accordance with applicable local, state and federal regulations.

## 14. Transport Information

### LAND TRANSPORT (US DOT)

DOT Proper Shipping Name

Paint related material

## Klean Strip Heavy Bodied Metal &amp; Masonry

Printed: 01/10/2014

Revision: 08/17/2010

## Paint Remover

Supercedes Revision: 05/07/2004

**DOT Hazard Class:** 8  
**DOT Hazard Label:** CORROSIVE  
**UN/NA Number:** UN3066  
**Packing Group:** II

**Additional Transport Information**

For D.O.T. information, contact W.M. Barr Technical Services at 1-800-398-3892.

**15. Regulatory Information****US EPA SARA Title III**

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Dichloromethane {Methylene chloride; R-30; Freon 30}	75-09-2	No	Yes 1000 LB	Yes	Yes
2. Isopropyl alcohol {sec-Propyl alcohol; IPA; 2-Propanol}	67-63-0	No	No	Yes	No
3. Methanol {Methyl alcohol; Carbinol; Wood alcohol}	67-56-1	No	Yes 5000 LB	Yes	No
4. Ethyl alcohol {Ethanol}	64-17-5	No	No	No	No

**Other US EPA or State Lists**

Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. Dichloromethane {Methylene chloride; R-30; Freon 30}	75-09-2	HAP	Yes	Inventory, 4 Test, 8A CAIR	Yes
2. Isopropyl alcohol {sec-Propyl alcohol; IPA; 2-Propanol}	67-63-0	No	No	Inventory, 4 Test	No
3. Methanol {Methyl alcohol; Carbinol; Wood alcohol}	67-56-1	HAP	No	Inventory	Yes
4. Ethyl alcohol {Ethanol}	64-17-5	No	No	Inventory	No

**EPA Hazard Categories:**

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

Yes  No Acute (immediate) Health Hazard

Yes  No Chronic (delayed) Health Hazard

Yes  No Fire Hazard

Yes  No Sudden Release of Pressure Hazard

Yes  No Reactive Hazard

**16. Other Information****Company Policy or Disclaimer**

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

**Revision Date:** 08/17/2010