



## Material Safety Data Sheet

Material Name: SAFETY-KLEEN 105 SOLVENT RECYCLED

ID: 82310

### \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

**Product Code:** 6614, 6617, 1011662, 1014662

**Product Use:** Cleaning and degreasing metal parts. If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.

**AS OF JUNE, 2011: THIS PRODUCT IS ONLY FOR SALE AND USE IN PUERTO RICO. USE OF THIS SOLVENT ANYWHERE ELSE IS STRICTLY PROHIBITED.**

**Synonyms:** Parts Washer Solvent, Petroleum Distillates, Mineral Spirits

Safety-Kleen Systems, Inc.  
5360 Legacy Drive  
Building 2, Suite 100  
Plano, TX 75024

Phone: 1-800-669-5740

Emergency # 1-800-468-1760  
www.safety-kleen.com

**Issue Date**

August 9, 2012

**Supersedes Issue Date**

August 21, 2009

**Original Issue Date**

April 08, 1976

PREPARED BY: Product MSDS Coordinator      APPROVED BY: MSDS Task Force

### \*\*\* Section 2 - Hazardous Identification \*\*\*

#### EMERGENCY OVERVIEW

**Appearance**

Liquid, clear and green, mild hydrocarbon odor.

**Signal Word**

WARNING!

**Physical Hazards**

Combustible liquid and vapor.

**Health Hazards**

May be harmful if inhaled.

May irritate the respiratory tract (nose, throat, and lungs), eyes, and skin.

May be harmful if swallowed.

Contains material that may cause central nervous system and kidney damage.

Contains material which may cause birth defects.

Suspect cancer hazard. Contains material (less than 0.2% by weight) which may cause cancer. Risk of cancer depends on duration and level of exposure.

#### POTENTIAL HEALTH EFFECTS

**Inhalation (Breathing)**

High concentrations of vapor may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death.

**Eyes**

May cause irritation.

**Skin**

May cause irritation. Not likely to be absorbed in harmful amounts.

**Ingestion (Swallowing)**

May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and diarrhea. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

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## Medical Conditions Aggravated by Exposure

Individuals with pre-existing respiratory tract (nose, throat, and lungs), central nervous system, kidney, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

## Chronic

Prolonged or repeated inhalation may cause toxic effects as noted under **INHALATION (BREATHING)**. Prolonged or repeated exposure may cause central nervous system and kidney damage or have mutagenic effects. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis). Contains material which may cause birth defects.

## Cancer Information

This product contains tetrachloroethylene which may cause cancer. Risk of cancer depends on duration and level of exposure. For more information, see **SECTION 11: CARCINOGENICITY**.

Also see **SECTION 15: CALIFORNIA**.

## Environmental Hazards

Toxic to fish.; Product is toxic to fish. Also see **SECTION 12: ECOLOGICAL INFORMATION**.

### \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

CAS	Component	Percent
64742-47-8	Distillates (petroleum), hydrotreated light	99-100
127-18-4	Tetrachloroethylene	0-0.2*

## Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Stoddard solvent (8052-41-3).

### \*\*\* Section 4 - First Aid Measures \*\*\*

## Inhalation (Breathing)

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

## Eyes

If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.

## Skin

Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention. Wash contaminated clothing before reuse. Consider discarding contaminated shoes.

## Ingestion (Swallowing)

Do NOT induce vomiting. Immediately get medical attention. Call 1-800-468-1760 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

## Notes to Physicians

Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

### \*\*\* Section 5 - Fire Fighting Measures \*\*\*

## Hazardous Combustion Products

Decomposition and combustion materials may be toxic. Burning may produce carbon monoxide and unidentified organic compounds.

## Conditions of Flammability

Heat, sparks, or flame.

## Extinguishing Media

Carbon dioxide, regular foam, dry chemical, water spray, or water fog.

## Protective Equipment For Firefighting

A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.



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## Fire Fighting Equipment/Instructions

Keep storage containers cool with water spray.

**NFPA Ratings: Health: 1 Fire: 2 Reactivity: 0**

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

## Fire and Explosion Hazards

Vapor explosion hazard indoors, outdoors, or in sewers. Vapors may travel to ignition source and flashback. Vapors will spread along the ground and collect in low or confined areas. Run-off to sewer may create a fire hazard. Heated containers may rupture or be thrown into the air. "Empty" containers may retain residue and can be dangerous. Product is not sensitive to mechanical impact or static discharge.

### \*\*\* Section 6 - Accidental Release Measures \*\*\*

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal. Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal. There may be specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see **SECTION 15: REGULATORY INFORMATION**.

### \*\*\* Section 7 - Handling and Storage \*\*\*

## Handling Procedures

Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion proof equipment. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using this product.

## Shipping and Storing

Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. See **SECTION 14: TRANSPORTATION INFORMATION** for Packing Group information.

### \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

## Exposure Guidelines

### Component Exposure Limits

#### Distillates (petroleum), hydrotreated light (64742-47-8)

**ACGIH:** 100 ppm TWA (related to Stoddard solvent)  
**OSHA Final:** 500 ppm TWA; 2900 mg/m<sup>3</sup> TWA (related to Stoddard solvent)  
**OSHA Vacated:** 100 ppm TWA; 525 mg/m<sup>3</sup> TWA (related to Stoddard solvent)  
**NIOSH:** 350 mg/m<sup>3</sup> TWA (related to Stoddard solvent)  
1800 mg/m<sup>3</sup> Ceiling (15 min, related to Stoddard solvent)

#### Tetrachloroethylene (127-18-4)

**ACGIH:** 25 ppm TWA  
100 ppm STEL  
**OSHA Final:** 100 ppm TWA  
200 ppm Ceiling  
**OSHA Vacated:** 25 ppm TWA; 170 mg/m<sup>3</sup> TWA

## Engineering Controls

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits. Where explosive mixtures may be present, equipment safe for such locations should be used.

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## Personal Protective Equipment: Respiratory

Use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

## Personal Protective Equipment: Eyes/Face

Where eye contact is likely, wear chemical goggles; contact lens use is not recommended.

## Personal Protective Equipment: Skin

Where skin contact is likely, wear chemical impervious protective gloves; use of natural rubber (latex), polyvinyl chloride (PVC) or equivalent gloves is not recommended.

To avoid prolonged or repeated contact with product where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

## Personal Protective Equipment: Personal Hygiene

Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse.

Discard affected clothing, shoes, and/or protective equipment if they cannot be thoroughly cleaned. Discard leather articles, such as shoes, saturated with this product.

## Other Personal Protective Equipment

Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance/Odor :</b> Liquid, clear and green, mild hydrocarbon odor .	<b>pH:</b> Not applicable.
<b>Boiling Point:</b> 310°F (155°C) (initial)	<b>Melting Point:</b> -45°F (-43°C) (maximum)
<b>Solubility (H2O):</b> Insoluble.	<b>Specific Gravity:</b> 0.77 to 0.80 at 60°F (15.6°C) (water = 1)
<b>Density:</b> 6.4 to 6.7 LB/US gal (770 to 800 g/l)	<b>Octanol/H2O Coeff.:</b> Not available.
<b>Evaporation Rate:</b> 0.1 (butyl acetate = 1) (based on Stoddard Solvent)	<b>Molecular Weight:</b> Not available.
<b>Odor Threshold:</b> 30 ppm (based on Stoddard Solvent)	<b>Auto Ignition:</b> 410°F (210°C) (minimum)
<b>LFL:</b> 0.7 VOL% (minimum)	<b>Flash Point:</b> 105°F (40°C) Tag Closed Cup
<b>UFL:</b> 5 VOL% (maximum)	<b>Viscosity:</b> Not available.
<b>Vapor Pressure:</b> 0.4 mm Hg at 68°F (20°C) (approximately) 1.0 mm Hg at 100°F (37°C) (approximately)	
<b>Freezing Point:</b> -45°F (-43°C) (maximum)	

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

### Stability

Stable under normal temperatures and pressures.

### Incompatibility

Avoid acids, alkalies, oxidizing agents, reducing agents, reactive metals or reactive halogens.

### Reactivity

Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

### Hazardous Decomposition Products

None under normal temperatures and pressures. See also **SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.**

### Conditions To Avoid

Avoid heat, sparks, or flame.



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## \*\*\* Section 11 - Toxicological Information \*\*\*

### Toxicity Data

#### Component Analysis - LD50/LC50

##### Distillates (petroleum), hydrotreated light (64742-47-8)

Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

##### Tetrachloroethylene (127-18-4)

Inhalation LC50 Rat 4000 ppm 4 h; Oral LD50 Rat 2629 mg/kg; Dermal LD50 Mouse 2800 mg/kg

### Acute Effects

May irritate the respiratory tract (nose, throat, and lungs), eyes, and skin. High concentrations of vapor may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death. May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and diarrhea. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

### Repeated Dose Effects

Based on best current information, there is no known reproductive toxicity associated with this product.

Also see **SECTION 15: CALIFORNIA**.

Tetrachloroethylene has demonstrated animal effects of teratogenicity.

Based on best current information, the other component listed in **SECTION 2** is not a teratogen.

Based on best current information, there is no known human sensitization associated with this product.

Tetrachloroethylene has demonstrated human effects of mutagenicity.

Based on best current information, the other component listed in **SECTION 2** is not a mutagen.

### Component Carcinogenicity

#### Tetrachloroethylene (127-18-4)

**ACGIH:** A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

**OSHA:** Present (select carcinogen)

**NIOSH:** potential occupational carcinogen

**NTP:** Reasonably Anticipated To Be A Human Carcinogen (Suspect Carcinogen)

**IARC:** Monograph 63 [1995]; Supplement 7 [1987] (Group 2A (probably carcinogenic to humans))

### Target Organ Effects

Prolonged or repeated exposure may cause central nervous system and kidney damage.

### Mutagenicity

Tetrachloroethylene has demonstrated human effects of mutagenicity.

Based on best current information, the other component listed in **SECTION 2** is not a mutagen.

### Teratogenicity

Tetrachloroethylene has demonstrated animal effects of teratogenicity.

Based on best current information, the other component listed in **SECTION 2** is not a teratogen.

## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity

2.9 mg/L 96 hour LC<sub>50</sub> Rainbow trout, Donaldson trout (*Oncorhynchus mykiss*) (based on Petroleum distillates, hydrotreated light).

### Component Analysis - Ecotoxicity - Aquatic Toxicity

#### Distillates (petroleum), hydrotreated light (64742-47-8)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	45 mg/L [flow-through]	
96 Hr LC50 Lepomis macrochirus	2.2 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	2.4 mg/L [static]	

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## Tetrachloroethylene (127-18-4)

### Duration/Test/Species

96 Hr LC50 Pimephales promelas  
96 Hr LC50 Pimephales promelas  
96 Hr LC50 Lepomis macrochirus  
96 Hr LC50 Oncorhynchus mykiss  
96 Hr EC50 Pseudokirchneriella subcapitata

### Concentration/Conditions

12.4-14.4 mg/L [flow-through]  
8.6-13.5 mg/L [static]  
11.0-15.0 mg/L [static]  
4.73-5.27 mg/L [flow-through]  
>500 mg/L

### Notes

### Persistence/Degradability

No information available for the product.

### Bioaccumulation/Accumulation

No information available for the product.

### Mobility in Environmental Media

No information available for the product.

### Other Adverse Effects

No information available for the product.

## \*\*\* Section 13 - Disposal Considerations \*\*\*

### Disposal Instructions

Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

### US EPA Waste Number & Descriptions

D001, D018, D039 and D040 Based on available data, this information applies to the product as supplied to the user. Processing, use, or contamination by the user may change the waste code applicable to the disposal of this product.

## \*\*\* Section 14 - Transportation Information \*\*\*

### Emergency Response Guide Number

128 Reference *North American Emergency Response Guidebook*

DOTShipping Name: Petroleum distillates, n.o.s.

UN/NA #: UN1268 Hazard Class: 3 Packing Group: III

Required Label(s): 3

Additional Information: Non-Bulk Packages (<119 Gallons)(Shipments via vessel and aircraft must use bulk package shipping description):

Not regulated as a hazardous substance for transportation.

TDGShipping Name: Petroleum distillates, n.o.s. (Petroleum naphtha)

UN/NA #: UN1268 Hazard Class: 3 Packing Group: III

Required Label(s): FLAMMABLE LIQUID

Additional Info.: Small Means of Containment (Shipments via aircraft must use large means of containment shipping description):

Not regulated as a Dangerous Good for transportation.

### IATA Information

No Classification Assigned.

### IMDG Information

No Classification Assigned.

## \*\*\* Section 15 - Regulatory Information \*\*\*

### VOC (As Regulated)

100 WT%; 6.4 to 6.7 LB/US gal; 770 to 800 g/l

As per 40 CFR Part 51.100(s).

Photochemically Reactive (<10%)

VOC Vapor Pressure Approx 0.4 mm Hg @20°C



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## SARA Sections 311/312

This product poses the following health hazards as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):

Immediate (Acute) Health Hazard  
Delayed (Chronic) Health Hazard  
Fire Hazard

## SARA 302/304

### Component Analysis

Based on the ingredients listed in SECTION 2, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

## SARA Section 313

This product does contain a "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

### Component Analysis

This product does contain a "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

**Tetrachloroethylene (127-18-4)** 0.1 % de minimis concentration

## CERCLA

### Component Analysis

This product contains the following "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantities (RQ):

**Tetrachloroethylene (127-18-4)** 100 lb final RQ; 45.4 kg final RQ

## TSCA

All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

### Component Analysis

Component	CAS #	TSCA
Distillates (petroleum), hydrotreated light	64742-47-8	Yes
Tetrachloroethylene	127-18-4	Yes

## State Regulations

This product may contain a detectable amount of benzene CAS 71-43-2, p-dichlorobenzene CAS 106-46-7, methylene chloride CAS 75-09-2, perchloroethylene CAS 127-18-4 and trichloroethylene CAS 79-01-6.

WARNING: These chemicals are known to the State of California to cause cancer.

This product may contain a detectable amount of benzene CAS 71-43-2 and toluene CAS 108-88-3. WARNING: These chemicals are known to the State of California to cause birth defects or other reproductive harm.

## U.S. State Regulations

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

Component	CAS	MA	MN	NJ	PA	CA
Distillates (petroleum), hydrotreated light (*related to: Stoddard solvent)	64742-47-8	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>
Tetrachloroethylene	127-18-4	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

## Canadian Regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

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## Component Analysis

Component	CAS #	CAN
Distillates (petroleum), hydrotreated light	64742-47-8	DSL
Tetrachloroethylene	127-18-4	DSL

## Canadian WHMIS Information

Class B3 - Combustible Liquid Class D2B - Irritating to eyes and skin. Class D2A - Contains component that may cause cancer.

## Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List: **Distillates (petroleum), hydrotreated light (64742-47-8)** 1 % (related to Stoddard solvent)

## Canadian Environmental Protection Act (CEPA)

All the components of this product are listed on, or are automatically included as "substance occurring in nature" on, or are exempted from the requirements to be listed on, the Canadian Domestic Substances List (DSL).

## \* \* \* Section 16 - Other Information \* \* \*

## Label/Other Information

This product is United States Department of Agriculture (USDA) approved, ETL classified and Factory Mutual (FM) approved.

## Revision Information

Regulatory update, update product name and composition. This MSDS has been revised in the following sections: Section 1 (Dates), Section 2 (Composition updated), Section 5 (Fire Fields), Section 8 (Exposure Limits added), Section 11 (Toxicology fields updated), Section 12 (Ecotoxicity and VOC Information, fields updated), Section 16 (Revision Information).

## Disclaimer

User assumes all risks incident to the use of this (these) product(s). To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.

End of Sheet 82310