### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**
SAFETY-KLEEN VIRGIN 105 SOLVENT

**Product Code**
6617

**Synonyms**
Parts Washer Solvent; Petroleum Distillates; Petroleum Naphtha, Solvent; Mineral Spirits

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

**Restrictions on Use**
None known.

**MANUFACTURER**
Safety-Kleen Systems, Inc.
2600 North Central Expressway
Suite 200
Richardson, TX 75080

**SUPPLIER**
Safety-Kleen Canada, Inc.
25 Regan Road
Brampton, Ontario, Canada L1A 1B2

[www.safety-kleen.com](http://www.safety-kleen.com)
Phone: 1-800-669-5740
Emergency Phone #: 1-800-468-1760

**Issue Date**
July 30, 2018

**Supersedes Issue Date**
November 8, 2016

**Original Issue Date**
February 13, 1991

### Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with Schedule 1 of Hazardous Products Regulations (HPR) (SOR/2015-17) and 29 CFR 1910.1200

- Flammable Liquids - Category 3
- Specific Target Organ Toxicity – Single Exposure, Category 3 (central nervous system)
- Aspiration Hazard - Category 1

**GHS Label Elements**

**Symbol(s)**

[![Flammable](image1.png)](image1.png)
[![Hazard](image2.png)](image2.png)

**Signal Word**
Danger
Hazard Statement(s)
Flammable liquid and vapor.
May cause drowsiness and dizziness.
May be fatal if swallowed and enters airways.

Precautionary Statement(s)
Prevention
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing vapor or mist. Use only outdoors or in a well-ventilated area.

Response
In case of fire: Use Class B/C or Class A/B/C fire extinguisher, carbon dioxide, regular form, or dry chemical for extinction. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor physician if you fell unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

Storage
Store in a well-ventilated place. Keep cool. Store locked up.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards
None known.

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-47-8</td>
<td>Distillates (petroleum), hydrotreated light</td>
<td>&lt;100</td>
</tr>
</tbody>
</table>

Additional information
This product may be regulated, have exposure limits or other information identified as the following:
- Stoddard solvent.

Section 4 - FIRST AID MEASURES

Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops or persists.

Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

Ingestion
IF SWALLOWED: Aspiration hazard. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Call a poison control center or doctor immediately for treatment advice.
Most Important Symptoms/Effects

Acute
May be fatal if swallowed and enters airways. Central nervous system depression.

Delayed
Central nervous system damage.

Indication of any immediate medical attention and special treatment needed
IF exposed: Call a POISON CENTER or doctor/physician. 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

Extinguishing Media
Suitable Extinguishing Media
Class B/C or Class A/B/C fire extinguisher, carbon dioxide, regular foam, regular dry chemical, water spray, water fog

Unsuitable Extinguishing Media
Do not use high-pressure water streams.

Special Hazards Arising from the Chemical
Flammable liquid and vapor. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Run-off to sewer may create a fire hazard. Heated containers may rupture or be thrown into the air. Empty containers may retain product residue including flammable/explosive vapors. Product may be sensitive to static discharge, which could result in fire or explosion.

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

Fire Fighting Measures
Keep away from sources of ignition - No Smoking. Keep unnecessary people away, isolate hazard area and deny entry. Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Stay away from the ends of tanks. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile). Stay upwind and keep out of low areas. Dike for later disposal.

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

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Wear personal protective clothing and equipment. SEE SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up
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 regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see SECTION 15: REGULATORY INFORMATION.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. When transferring large quantities of product, 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, shoes. Do not smoke while using these products.

Conditions for Safe Storage, Including any Incompatibilities
Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Empty product containers may retain product residue and can be dangerous. Store in a well-ventilated area. Keep container tightly closed. Keep cool. See SECTION 14: TRANSPORTATION INFORMATION for Packing Group information.

Incompatible Materials
Strong oxidizing materials.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<table>
<thead>
<tr>
<th>Distillates (petroleum), hydrotreated light</th>
<th>64742-47-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alberta</td>
<td>100 ppm TWA ; 572 mg/m3 TWA (related to Stoddard solvent)</td>
</tr>
<tr>
<td>British Columbia</td>
<td>200 mg/m3 TWA (application restricted to conditions in which there are negligible aerosol exposures ) as total Hydrocarbon vapor; Skin notation; 580 mg/m3 STEL (related to Stoddard solvent)</td>
</tr>
<tr>
<td>Manitoba</td>
<td>100 ppm TWA (related to Stoddard solvent)</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>100 ppm TWA ; 525 mg/m3 TWA (related to Stoddard solvent)</td>
</tr>
<tr>
<td>Northwest Territories</td>
<td>100 ppm TWA (related to Stoddard solvent); 125 ppm STEL (related to Stoddard solvent)</td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>100 ppm TWA (related to Stoddard solvent)</td>
</tr>
<tr>
<td>Nunavut</td>
<td>100 ppm TWA (related to Stoddard solvent); 125 ppm STEL (related to Stoddard solvent)</td>
</tr>
<tr>
<td>Ontario</td>
<td>525 mg/m3 TWA (related to Stoddard solvent)</td>
</tr>
<tr>
<td>Prince Edward Island</td>
<td>100 ppm TWA (related to Stoddard solvent)</td>
</tr>
<tr>
<td>Quebec</td>
<td>100 ppm TWAEV ; 525 mg/m3 TWAEV (related to Stoddard solvent)</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>100 ppm TWA (related to Stoddard solvent); 125 ppm STEL (related to Stoddard solvent)</td>
</tr>
</tbody>
</table>
Yukon  100 ppm TWA ; 575 mg/m3 TWA (related to Stoddard solvent); 150 ppm STEL ; 720 mg/m3 STEL (related to Stoddard solvent)

ACGIH  100 ppm TWA (related to Stoddard solvent)

OSHA  500 ppm TWA; 2900 mg/m3 TWA (related to Stoddard solvent)

NIOSH  350 mg/m3 TWA (related to Stoddard solvent) 1800 mg/m3 Ceiling (15 min, related to Stoddard solvent)

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

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.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear safety glasses. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapors. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

Skin Protection

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

Respiratory Protection

Respiratory Protection

Use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection by air purifying respirators is limited. Selection and use or 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.

Glove Recommendations

Where skin contact is likely, wear neoprene, nitrile, or equivalent protective gloves; use of natural rubber or equivalent gloves is not recommended.

Protective Materials

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: Safety glasses, gloves, lab coat or apron.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Odor</td>
<td>aromatic</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>30 ppm (Stoddard solvent)</td>
</tr>
<tr>
<td>Melting Point</td>
<td>-43 °C (-45 °F Maximum)</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>177 °C (350 °F Initial)</td>
</tr>
<tr>
<td>Boiling Point Range</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt;0.1 (Butyl acetate = 1)</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not available</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless to pale yellow.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
</tbody>
</table>
Autoignition Temperature 249 °C (480 °F Minimum)  
Flash Point 40 °C (105 °F.)

Lower Explosive Limit 0.7 vol% (Minimum)  
Decomposition temperature Not available

Upper Explosive Limit 5 vol% (Maximum)  
Vapor Pressure 0.2 mmHg @ 68 °F (20º C)

Vapor Density (air=1) 5 (Approximate Air = 1)  
Specific Gravity (water=1) 0.77 - 0.82 at 15.6 °C

Water Solubility (Insoluble)  
Partition coefficient: n-octanol/water Not available

Viscosity Not available  
Solubility (Other) Not available

Density 6.4 - 6.7 lb/gal at 60 ºF (Water = 1.)  
Physical Form Liquid.

Volatile Organic Compounds (As Regulated) 100 WT%; 6.4 to 6.7 LB/US gal; 770 to 800 grl As per 40 CFR Part 51.100(s).  
VOC Vapor Pressure: <1.0 mmHg @20°C  
Product may or may not be considered photochemically reactive (100% by weight). Consult your state or local air district regulations for location specific information.

Section 10 - STABILITY AND REACTIVITY

Reactivity  
No reactivity hazard is expected.

Chemical Stability  
Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions  
Will not polymerize under normal temperature and pressure conditions.

Conditions to Avoid  
Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials  
Acids, alkalis, oxidizing agents, reducing agents, or reactive halogens.

Hazardous decomposition products  
None under normal temperatures and pressures. See also SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation  
May cause irritation, nausea, loss of appetite, headache, drowsiness, dizziness, disorientation, tremors, lung damage (from aspiration), convulsions, coma.

Skin Contact  
May cause irritation of the skin.

Eye Contact  
May cause eye irritation.
Ingestion
May cause, headache, drowsiness, dizziness, loss of coordination, aspiration hazard.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:

Distillates (petroleum), hydrotreated light (64742-47-8)
Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat >5.2 mg/L 4 h

Product Toxicity Data

Acute Toxicity Estimate

<table>
<thead>
<tr>
<th>Mode</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermal</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td>&gt; 2000 mg/kg</td>
</tr>
</tbody>
</table>

Immediate Effects
Central nervous system depression, lung damage (from aspiration).

Delayed Effects
No information on significant adverse effects.

Irritation/Corrosivity Data
May cause respiratory tract irritation, skin irritation, eye irritation.

Respiratory Sensitization
No information available for the product.

Dermal Sensitization
No information available for the product.

Component Carcinogenicity
None of this product's components are listed by ACGIH, IARC, OSHA, or NTP.

Germ Cell Mutagenicity
Based on best current information, there is no known mutagenicity associated with this product.

Tumorigenic Data
No data available

Reproductive Toxicity
No epidemiological data is available for this product.

Specific Target Organ Toxicity - Single Exposure
Central nervous system.

Specific Target Organ Toxicity - Repeated Exposure
Central nervous system.

Aspiration hazard
Lung aspiration hazard if swallowed.

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

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity
Toxic to aquatic life with long lasting effects.

Component Analysis - Aquatic Toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
</tr>
</tbody>
</table>
Fish:
LC50 96 h Pimephales promelas 45 mg/L [flow-through ]; LC50 96 h Lepomis macrochirus 2.2 mg/L [static ]; LC50 96 h Oncorhynchus mykiss 2.4 mg/L [static ]

Persistence and Degradability
This material is believed not to biodegrade.

Bioaccumulative Potential
This material is believed not to bioaccumulate.

Mobility
Expected to have high mobility in soil.

Other Toxicity
No additional information is available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods
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. 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. D018. D001.

Section 14 - TRANSPORT INFORMATION

DOT NON-BULK PACKAGES (≤119 Gallons)( Shipments via vessel and aircraft must use bulk shipping description.):
Shipping Name: Cleaning compounds (petroleum naphtha)(Not US DOT Regulated)

BULK PACKAGES (≥120 Gallons):
Shipping Name: Combustible liquid, n.o.s. (petroleum naphtha)

TDG SMALL MEANS OF CONTAINMENT (Shipments via aircraft must use large means of containment shipping description):
Shipping Name: CLEANING COMPOUNDS (petroleum naphtha)(Not TDG regulated)

LARGE MEANS OF CONTAINMENT
Shipping Name: PETROLEUM DISTILLATES, N.O.S. (petroleum naphtha)
UN/NA #: UN1268 Hazard Class: 3 Packing Group: III Required Placards: Class 3, UN1268


Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations
None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories
Flammable; Specific Target Organ Toxicity; Aspiration Hazard

U.S. State Regulations
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

**WARNING!** This product can expose you to chemicals including benzene, ethylbenzene, and naphthalene which are known to the State of California to cause cancer and benzene and toluene which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Canada Regulations

CEPA - Priority Substances List
None of this product's components are on the list.

Ozone Depleting Substances
None of this product's components are on the list

Council of Ministers of the Environment - Soil Quality Guidelines
None of this product's components are on the list

Council of Ministers of the Environment - Water Quality Guidelines
None of this product's components are on the list

Component Analysis - Inventory
This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR.
All of the components of this product are listed on or are exempt from the TSCA inventory listing.

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

<table>
<thead>
<tr>
<th>US</th>
<th>CA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
</tr>
</tbody>
</table>

Section 16 - OTHER INFORMATION

**NFPA Ratings**
Health: 1 Fire: 2 Reactivity: 0
Hazard Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe

**Summary of Changes**

**Key / Legend**
ACGIH - American Conference of Governmental Industrial Hygienists; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations (US); CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CPR - Controlled Products Regulations; DOT - Department of Transportation; DSL - Domestic Substances List; EPA - Environmental Protection Agency; F - Fahrenheit; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NDSL – Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; RCRA - Resource Conservation and Recovery Act; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average
Other Information

Disclaimer:
User assumes all risks incident to the use of this product. 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 expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information or the product to which the information refers. The data contained on this sheet apply to the product as supplied to the user.