

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).  
 Revision Date: 02/24/2022      Date of Issue: 02/17/2017      Supersedes Date: 02/13/2020      Version: 1.0

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Safety-Kleen MIL-PRF-680, TYPE II

**Product Code:** 14426

**Synonyms:** Parts washer solvent, petroleum, petroleum distillates, naphtha solvents, mineral spirits

**SDS No.:** 82884

#### 1.2. Intended Use of the Product

Cleaning and degreasing metal parts. For professional use only. This product complies with the requirements of MIL-PRF-680 TYPE II Degreasing Solvent. It is included on the MIL-PRF-680 Products list.

#### 1.3. Name, Address, and Telephone of the Responsible Party

##### Manufacturer

Safety-Kleen Systems, Inc.  
 42 Longwater Drive  
 Norwell, MA 02061-9149  
 1-800-669-5740

[www.safety-kleen.com](http://www.safety-kleen.com)

##### Supplier in Canada

Safety-Kleen Canada, Inc.  
 25 Regan Road  
 Brampton, Ontario L7A 1B2  
 Canada

#### 1.4. Emergency Telephone Number

**Emergency Number :** 1-800-468-1760

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

##### GHS-US/CA Classification

Flam. Liq. 4	H227
STOT SE 3	H335
Asp. Tox. 1	H304

Full text of hazard classes and H-statements : see section 16

#### 2.2. Label Elements

##### GHS-US/CA Labeling

##### Hazard Pictograms (GHS-US/CA)



##### Signal Word (GHS-US/CA)

: Danger

##### Hazard Statements (GHS-US/CA)

: H227 - Combustible liquid.  
 H304 - May be fatal if swallowed and enters airways.  
 H335 - May cause respiratory irritation.

##### Precautionary Statements (GHS-US/CA)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P261 - Avoid breathing vapors, mist, or spray.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P280 - Wear protective gloves, protective clothing, and eye protection.  
 P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312 - Call a POISON CENTER or doctor if you feel unwell.  
 P331 - Do NOT induce vomiting.  
 P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.  
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed.



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P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, territorial, provincial, national, and international regulations.

### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### 2.4. Unknown Acute Toxicity (GHS-US/CA)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Naphtha, petroleum, hydrotreated heavy	Naphtha (petroleum), hydrotreated heavy / Naphtha, (petroleum), hydrotreated heavy / Hydrotreated heavy naphtha / Hydrotreated heavy naphtha (petroleum) / Naphtha (petroleum), hydrotreated heavy - low boiling point thermally cracked naphtha	(CAS-No.) 64742-48-9	≤ 100	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335
Alkanes, C10-13-iso-	Alkanes, C10-13, iso- / C10-13 Isoparaffin / C10-13 ISOPARAFFIN / Isoalkanes, C10-13 / Soltrol 170	(CAS-No.) 68551-17-7	≤ 100	Flam. Liq. 4, H226 Asp. Tox. 1, H304
Alkanes, C12-14-iso-	Alkanes, C12-14, iso- / C12-14 Isoparaffin / C12-14 ISOPARAFFIN / Isoalkanes, C12-14 / Soltrol 170	(CAS-No.) 68551-19-9	≤ 100	Flam. Liq. 4, H227 Asp. Tox. 1, H304

Full text of H-phrases: see section 16

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%). The actual concentration of ingredient(s) is withheld as a trade secret in accordance with the Hazardous Products Regulations (HPR) SOR/2015-17 and 29 CFR 1910.1200.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Immediately remove contaminated clothing. Wash affected area with soap and water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. If vomiting occurs keep head below waistline. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** May cause respiratory irritation. May be fatal if swallowed and enters airways.

**Inhalation:** Irritation of the respiratory tract and the other mucous membranes.

**Skin Contact:** Prolonged exposure may cause skin irritation.

**Eye Contact:** May cause slight irritation to eyes.

**Ingestion:** Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

**Chronic Symptoms:** None expected under normal conditions of use.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Water may be ineffective but water should be used to keep fire-exposed container cool.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. A heavy water stream may spread burning liquid.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Combustible liquid.

**Explosion Hazard:** May form flammable or explosive vapor-air mixture.

**Reactivity:** Reacts violently with strong oxidizers. Increased risk of fire or explosion.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon monoxide, carbon dioxide, nitrogen oxides and non-combusted hydrocarbons (smoke).

### 5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid breathing (vapor, mist, spray). Avoid all contact with skin, eyes, or clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Eliminate ignition sources first, then ventilate the area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Handle empty containers with care because residual vapors are flammable.

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors, mist, spray. Avoid contact with eyes, skin and clothing. Take precautionary measures against static discharge. Use only non-sparking tools.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

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**Storage Conditions:** Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

### 7.3. Specific End Use(s)

Cleaning and degreasing metal parts. For professional use only. This product complies with the requirements of MIL-PRF-680 TYPE II Degreasing Solvent. It is included on the MIL-PRF-680 Products list.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed.

**Personal Protective Equipment:** Gloves. Protective clothing. Safety glasses. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear protective gloves.

**Eye and Face Protection:** Safety glasses with side shields.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear, colorless
Odor	: Mild hydrocarbon
Odor Threshold	: Not available
pH	: 7
Evaporation Rate	: < 0.1 (Butyl acetate = 1)
Melting Point	: -60 °C (-76 °F)
Freezing Point	: Not available
Boiling Point	: 179 – 210 °C (354 – 410.2 °F)
Flash Point	: 61 °C (142°F) (Minimum)
Auto-ignition Temperature	: 224 °C (471 °F) (Minimum)
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not applicable
Lower Flammable Limit	: 0.68 % Vol (Approximate)
Upper Flammable Limit	: 5.3 % Vol (Approximate)
Vapor Pressure	: < 2.6 mmHg @ 38°C (100 °F)
Relative Vapor Density at 20°C	: Not available
Relative Density	: 0.76 @ 15.6 °C (60 °F)



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Density	: 6.4 – 6.7 lb/gal
Specific Gravity	: 0.77 @ 15.6 °C (60 °F) (Water=1)
Solubility	: Water: Insoluble
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: 1.5 cSt @ 38 °C (100 °F)
VOC Content	: 100 WT % ; 6.4 to 6.7 LB/US gal; 770 to 800 g/l; As per 40 CFR Part 51.100(s); Consult with your state/local air pollution control agency and their rules/regulations for specific direction in your specific area.

### SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity:** Reacts violently with strong oxidizers. Increased risk of fire or explosion.
- 10.2. **Chemical Stability:** Combustible liquid. May form flammable or explosive vapor-air mixture.
- 10.3. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. **Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.
- 10.5. **Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. **Hazardous Decomposition Products:** Thermal decomposition generates: Carbon monoxide, carbon dioxide, nitrogen oxides and non-combusted hydrocarbons (smoke).

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects - Product

**Acute Toxicity (Oral):** Not classified

**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Not classified

**Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.

**Aspiration Hazard:** May be fatal if swallowed and enters airways.

**Symptoms/Injuries After Inhalation:** Irritation of the respiratory tract and the other mucous membranes.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

**Chronic Symptoms:** None expected under normal conditions of use.

#### 11.2. Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

<b>Naphtha, petroleum, hydrotreated heavy (64742-48-9)</b>	
LD50 Oral Rat	> 6000 mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg
LC50 Inhalation Rat	> 8500 mg/m <sup>3</sup> (Exposure time: 4 h)
<b>Alkanes, C10-13-iso- (68551-17-7)</b>	
LD50 Dermal Rabbit	> 5000 mg/kg
<b>Alkanes, C12-14-iso- (68551-19-9)</b>	
LD50 Dermal Rabbit	> 5000 mg/kg

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecology - General: Not classified.

**Naphtha, petroleum, hydrotreated heavy (64742-48-9)**

LCSO Fish 1	2200 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
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### 12.2. Persistence and Degradability

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Persistence and Degradability	Not established.
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### 12.3. Bioaccumulative Potential

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Bioaccumulative Potential	Not established.
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12.4. Mobility in Soil Not available

### 12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Additional Information:** Handle empty containers with care because residual vapors are flammable.

**Ecology - Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

**Proper Shipping Name** : COMBUSTIBLE LIQUID, N.O.S. (CONTAINS : NAPHTHA, PETROLEUM, HYDROTREATED HEAVY ; ALKANES, C10-13-ISO-)

**Identification Number** : NA1993

**Packing Group** : III



**Special Provisions:** 49CFR173.150. Not regulated for transport in single packages less than 119 US Gal / 450 L (bulk package). Non-bulk packages are not regulated.

14.2. In Accordance with IMDG Not regulated for transport

14.3. In Accordance with IATA Not regulated for transport

14.4. In Accordance with TDG Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

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SARA Section 311/312 Hazard Classes	Health hazard - Specific target organ toxicity (single or repeated exposure)
	Physical hazard - Flammable (gases, aerosols, liquids, or solids)
	Health hazard - Aspiration hazard

**Naphtha, petroleum, hydrotreated heavy (64742-48-9)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Alkanes, C10-13-iso- (68551-17-7)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Alkanes, C12-14-iso- (68551-19-9)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory



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### 15.2. US State Regulations

#### California Proposition 65



**WARNING: WARNING:** This product can expose you to Benzene, p-Dichlorobenzene, 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](http://www.P65Warnings.ca.gov).

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Benzene (71-43-2)	X	X		X
Ethylbenzene (100-41-4)	X			
Naphthalene (91-20-3)	X			
Benzene, 1,4-dichloro- (106-46-7)	X			
p-Dichlorobenzene (106-46-7)	X			
Toluene (108-88-3)		X		

### 15.3. Canadian Regulations

<b>Naphtha, petroleum, hydrotreated heavy (64742-48-9)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Alkanes, C10-13-iso- (68551-17-7)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Alkanes, C12-14-iso- (68551-19-9)</b>
Listed on the Canadian DSL (Domestic Substances List)

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Date of Preparation or Latest Revision** : 02/24/2022

**Revision**

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

#### GHS Full Text Phrases:

Asp. Tox. 1	Aspiration hazard Category 1
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapor
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H335	May cause respiratory irritation

**NFPA Health Hazard**

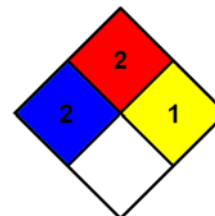
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

**NFPA Fire Hazard**

: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

**NFPA Reactivity Hazard**

: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.





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*The information contained herein is correct to the best of our knowledge, information, and belief and is designed only as guidance for the handling, use, processing, storage, transportation, disposal, and release of the product. User assumes all risks incident to use of this product and shall determine the quality and suitability of the product for its use. Supplier offers no warranty, express or implied, whatsoever, including warranties of merchantability or fitness for a particular purpose or otherwise, and specifically disclaims any and all liability for incidental, consequential, or other damages arising out the use or misuse of the product. The information provided relates only to the specific material provided and may not be valid if used in combination with any other materials or process, unless specified herein.*

NA GHS SDS 2015 (Can, US)