SAFETY DATA SHEET
in accordance with 29 CFR 1910.1200 / WHMIS 2015 / GHS

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name: 274 Industrial Degreaser (Bulk)
Product name: Distillates (petroleum), hydrotreated light
CAS No.: 64742-47-8

1.2. Relevant identified uses of the substance or mixture and uses advised against
Petroleum base cleaner.

1.3. Details of the supplier of the safety data sheet
Company: A.W. CHESTERTON COMPANY
860 Salem Street
Groveland, MA 01834-1507, USA
Tel. +1 978-469-6446 Fax: +1 978-469-6785
(Mon. - Fri. 8:30 - 5:00 PM EST)
SDS requests: www.chesterton.com
E-mail (SDS questions): ProductMSDSs@chesterton.com
E-mail: customer.service@chesterton.com

1.4. Emergency telephone number
24 hours per day, 7 days per week
Call Infotrac: 1-800-535-5053
Outside N. America: +1 352-323-3500 (collect)
NSW Poisons Information Centre (Australia): 13 11 26

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
2.1.1. Classification according to 29 CFR 1910.1200 / WHMIS 2015 / GHS
Flam. Liq. 4, H227
Asp. Tox. 1, H304
Skin Irrit. 2, H315
STOT SE 3, H336
Aquatic Chronic 2, H411

2.1.2. Classification according to WHMIS 1988
B3: Combustible liquids; D2B: Toxic materials causing other effects

2.1.3. Australian statement of hazardous nature
Hazardous according to criteria of Safe Work Australia.

2.1.4. Additional information
For full text of H-statements: see SECTIONS 2.2 and 16.

2.2. Label elements
Labelling according to 29 CFR 1910.1200 / WHMIS 2015 / GHS
Hazard pictograms:

Signal word: Danger
Product: 274 Industrial Degreaser (Bulk)

Hazard statements:
- H227 Combustible liquid.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:
- P210 Keep away from flames and hot surfaces. – No smoking.
- P233 Keep container tightly closed.
- P261 Avoid breathing vapours/spray.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves.
- P301/310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331 Do NOT induce vomiting.
- P302/352 IF ON SKIN: Wash with plenty of soap and water.
- P332/313 If skin irritation occurs: Get medical advice/attention.
- P304/340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P362/364 Take off contaminated clothing and wash it before reuse.
- P370/378 In case of fire: Use CO2, dry chemical, foam or water spray to extinguish.
- P391 Collect spillage.
- P403/235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container to an approved waste disposal plant.

Supplemental information:
- 2.3. Other hazards
None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

<table>
<thead>
<tr>
<th>Hazardous Ingredients¹</th>
<th>% Wt.</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>100</td>
<td>64742-47-8</td>
</tr>
</tbody>
</table>


SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Remove to fresh air. If not breathing, administer artificial respiration. Contact physician immediately.

Skin contact: Wash skin with soap and water. Take off contaminated clothing and wash it before reuse. Contact physician if irritation persists.

Eye contact: Flush eyes for at least 15 minutes with large amounts of water. Contact physician if irritation persists.

Ingestion: Do not induce vomiting. Contact physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Aspiration into the lungs may cause chemical pneumonitis or pulmonary oedema. Inhalation of vapor concentrations in excess of 1000 ppm will cause eye and respiratory tract irritation, dizziness, headache and other central nervous system effects. Prolonged or repeated skin contact may defat the skin and cause skin irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms.
SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing media: Carbon dioxide, dry chemical, foam or water spray
Unsuitable extinguishing media: High volume water jet

5.2. Special hazards arising from the substance or mixture
None

5.3. Advice for firefighters
Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus.

Flammability Classification: –

HAZCHEM Emergency Action Code:

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Provide adequate ventilation. Utilize exposure controls and personal protection as specified in Section 8.

6.2. Environmental Precautions
Keep out of sewers, streams and waterways.

6.3. Methods and material for containment and cleaning up
Contain spill to a small area. Keep away from sources of ignition - No smoking. If removal of ignition sources is not possible, then flush material away with water. Pick up with absorbent material (sand, sawdust, clay, etc.) and place in a suitable container for disposal.

6.4. Reference to other sections
Refer to section 13 for disposal advice.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Keep container closed when not in use. Electrically ground and bond equipment during transfer operations. Vapors are heavier than air and will collect in low areas. Vapor accumulations could flash and/or explode if ignited. Use only outdoors or in a well-ventilated area. Avoid breathing vapours/spray. Utilize exposure controls and personal protection as specified in Section 8.

7.2. Conditions for safe storage, including any incompatibilities
Store in a cool, dry area.

7.3. Specific end use(s)
No special precautions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters
Occupational exposure limit values

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>OSHA PEL¹ ppm</th>
<th>OSHA PEL¹ mg/m³</th>
<th>ACGIH TLV² ppm</th>
<th>ACGIH TLV² mg/m³</th>
<th>AUSTRALIA ES³ ppm</th>
<th>AUSTRALIA ES³ mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>–</td>
<td>–</td>
<td>179*</td>
<td>1200*</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

*Based on the procedure described in appendix H, "Reciprocal calculation method for Certain Refined Hydrocarbon Solvent Vapor Mixtures" of the ACGIH TLVs® and BEIs®.

¹ United States Occupational Health & Safety Administration permissible exposure limits
² American Conference of Governmental Industrial Hygienists threshold limit values
³ Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003]

8.2. Exposure controls
8.2.1. Engineering measures
Provide sufficient ventilation to keep the vapor concentrations below the exposure limits.
8.2.2. Individual protection measures

Respiratory protection: Not normally needed. If exposure limits are exceeded, use approved organic vapor respirator (e.g., EN filter type A).

Protective gloves: Chemical resistant gloves (e.g. Viton*, neoprene, nitrile). *DuPont's registered trademark.

Eye and face protection: Safety glasses

Other: Impervious clothing as necessary to prevent skin contact.

8.2.3. Environmental exposure controls

Refer to sections 6 and 12.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>low viscosity liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour</td>
<td>mild</td>
</tr>
<tr>
<td>Colour</td>
<td>clear</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>192-205°C (377.6-401°F)</td>
</tr>
<tr>
<td>Melting point</td>
<td>not determined</td>
</tr>
<tr>
<td>% Volatile (by volume)</td>
<td>100%</td>
</tr>
<tr>
<td>Flash point</td>
<td>67°C (152.6°F)</td>
</tr>
<tr>
<td>Method</td>
<td>Tag Closed Cup</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1.6 cSt @ 25°C</td>
</tr>
<tr>
<td>Autonight temperature</td>
<td>&gt; 220°C (&gt; 428°F)</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>LEL: 0.8; UEL: 6</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>not determined</td>
</tr>
</tbody>
</table>

9.2. Other information

None

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Refer to sections 10.3 and 10.5.

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

No dangerous reactions known under conditions of normal use.

10.4. Conditions to avoid

Open flames, heat, sparks and red hot surfaces.

10.5. Incompatible materials

Strong oxidizers like liquid Chlorine and concentrated Oxygen.

10.6. Hazardous decomposition products

Carbon Monoxide, aldehydes and other toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Primary route of exposure under normal use: Inhalation, skin and eye contact. Personnel with pre-existing dermatitis are generally aggravated by exposure.

Acute toxicity -

Oral: Based on available data, the classification criteria are not met.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>LD50, rat</td>
<td>&gt; 5000 mg/kg</td>
</tr>
</tbody>
</table>
**Product:** 274 Industrial Degreaser (Bulk)

**Date:** 13 March 2017

**SDS No.** 207B-22

### Dermal:
Based on available data, the classification criteria are not met.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>LD50, rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
</tbody>
</table>

### Inhalation:
Based on available data, the classification criteria are not met.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>LC50, rat, 4 hours</td>
<td>&gt; 5.2 mg/l</td>
</tr>
</tbody>
</table>

### Skin corrosion/irritation:
Prolonged or repeated skin contact may defat the skin and cause skin irritation.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>Skin irritation, rabbit</td>
<td>Slightly irritating / Moderately irritating</td>
</tr>
</tbody>
</table>

### Serious eye damage/irritation:
Direct contact may cause mild eye irritation. Based on available data, the classification criteria are not met.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>Eye irritation, rabbit</td>
<td>Not irritating / Slightly irritating</td>
</tr>
</tbody>
</table>

### Respiratory or skin sensitisation:
Not expected to cause sensitization.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>Skin sensitization, guinea pig</td>
<td>Not sensitizing</td>
</tr>
</tbody>
</table>

### Germ cell mutagenicity:
Based on available data, the classification criteria are not met.

### Carcinogenicity:
As per 29 CFR 1910.1200 (Hazard Communication), this product contains no carcinogens as listed by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), the Occupational Safety and Health Administration (OSHA) or Regulation (EC) No 1272/2008.

### Reproductive toxicity:
Based on available data, the classification criteria are not met.

### STOT-single exposure:
May cause drowsiness or dizziness.

### STOT-repeated exposure:
Based on available data, the classification criteria are not met.

### Aspiration hazard:
May be fatal if swallowed and enters airways.

### Other information:
None

### SECTION 12: ECOLOGICAL INFORMATION
Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances.

#### 12.1. Toxicity
Toxic to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability
Expected to biodegrade relatively quickly; can degrade rapidly in air. This substance is expected to be removed in a wastewater treatment facility. OECD 301F, 28 days: inherently biodegradable.

#### 12.3. Bioaccumulative potential
Octanol/water partition coefficient (log Kow): 2.1-6.5.
12.4. Mobility in soil
Liquid. Insoluble in water. In determining environmental mobility, consider the product’s physical and chemical properties (see Section 9). The hazardous ingredients will rapidly evaporate to the air if released into the water.

12.5. Other adverse effects
None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Incinerate absorbed material with a properly licensed facility. Spent solvent is amenable to incineration or fuel blending. Check local, state and national/federal regulations and comply with the most stringent requirement. This product is classified as a hazardous waste according to 2008/98/EC.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number
ADR/RID/ADN/IMDG/ICAO: UN3082
TDG: UN3082
US DOT: UN3082

14.2. UN proper shipping name
ADR/RID/ADN/IMDG/ICAO: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DISTILLATES, (PETROLEUM) HYDROTREATED LIGHT)
TDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DISTILLATES, (PETROLEUM) HYDROTREATED LIGHT)
US DOT: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DISTILLATES, (PETROLEUM) HYDROTREATED LIGHT)

14.3. Transport hazard class(es)
ADR/RID/ADN/IMDG/ICAO: 9
TDG: 9
US DOT: 9

14.4. Packing group
ADR/RID/ADN/IMDG/ICAO: III
TDG: III
US DOT: III

14.5. Environmental hazards
MARINE POLLUTANT

14.6. Special precautions for user
NO SPECIAL PRECAUTIONS FOR USER

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
NOT APPLICABLE

14.8. Other information
US DOT: ERG NO.171,
May be shipped as NON-RESTRICTED in non-bulk packagings (119 gallons or less) by motor vehicle, rail car or aircraft. (49 CFR 171.4(c))

IMDG: EmS. F-A, S-F
May be shipped as NON-RESTRICTED in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less. (IMDG CODE Amendment 37-14, 2.10.2.7)

ICAO/IATA: May be shipped as NON-RESTRICTED in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less. (IATA Dangerous Goods Regulation 56th edition, 4.4 Special Provisions A197)
ADR: Classification code M6 Tunnel restriction code (E)
May be shipped as NON-RESTRICTED in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less. (ADR 2015 Volume 1, Chapter 3.3 Special Provisions 375)

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. National regulations

US EPA SARA TITLE III

312 Hazards: 313 Chemicals:
Immediate None
Fire TSCA: All chemical components are listed in the TSCA inventory.
### Other national regulations:
National implementation of the EC Directive referred to in section 15.1.1.

### SECTION 16: OTHER INFORMATION

#### Abbreviations and acronyms:
- **ADN**: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- **ADR**: European Agreement concerning the International Carriage of Dangerous Goods by Road
- **ATE**: Acute Toxicity Estimate
- **BCF**: Bioconcentration Factor
- **cATpE**: Converted Acute Toxicity point Estimate
- **ES**: Exposure Standard
- **GHS**: Globally Harmonized System
- **ICAO**: International Civil Aviation Organization
- **IMDG**: International Maritime Dangerous Goods
- **LC50**: Lethal Concentration to 50% of a test population
- **LD50**: Lethal Dose to 50% of a test population
- **LOEL**: Lowest Observed Effect Level
- **N/A**: Not Applicable
- **NA**: Not Available
- **NOEC**: No Observed Effect Concentration
- **NOEL**: No Observed Effect Level
- **OECD**: Organization for Economic Co-operation and Development
- **(Q)SAR**: Quantitative Structure-Activity Relationship
- **REL**: Recommended Exposure Limit
- **RID**: Regulations concerning the International Carriage of Dangerous Goods by Rail
- **SDS**: Safety Data Sheet
- **STEL**: Short Term Exposure Limit
- **STOT RE**: Specific Target Organ Toxicity, Repeated Exposure
- **STOT SE**: Specific Target Organ Toxicity, Single Exposure
- **TDG**: Transportation of Dangerous Goods (Canada)
- **TWA**: Time Weighted Average
- **US DOT**: United States Department of Transportation
- **WHMIS**: Workplace Hazardous Materials Information System

Other abbreviations and acronyms can be looked up at www.wikipedia.org.

#### Key literature references and sources for data:
- Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST)
- Chemical Classification and Information Database (CCID)
- European Chemicals Agency (ECHA) - Information on Chemicals
- Hazardous Chemical Information System (HCIS)
- National Institute of Technology and Evaluation (NITE)
- U.S. National Library of Medicine Toxicology Data Network (TOXNET)

#### Relevant H-statements:
- **H227**: Combustible liquid.
- **H304**: May be fatal if swallowed and enters airways.
- **H315**: Causes skin irritation.
- **H336**: May cause drowsiness or dizziness.
- **H411**: Toxic to aquatic life with long lasting effects.

#### Hazard pictogram names:
Health hazard, exclamation mark, environment.

#### Changes to the SDS in this revision:
Sections 1.1, 1.3, 1.4, 2.1, 2.2, 3, 4.1, 4.2, 5.3, 7.1, 8.1, 9.1, 11, 15.1, 16.

#### Revision date:
13 March 2017

#### Further information:
None

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.