SAFETY DATA SHEET
in accordance with 1907/2006/EC (REACH, as amended by 2015/830/EU) and 29 CFR 1910.1200

Revision date: 26 April 2018  Initial date of issue: 6 July 2007  SDS No. 207A-17a

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

1.1. Product identifier
274 Industrial Degreaser (Aerosol)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Petroleum base cleaner. Dissolves grease, oil, tar and other similar water insoluble soils generally encountered in the industrial and marine environments.

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

Canada: A.W. Chesterton Company Ltd., 889 Fraser Drive,
Unit 105, Burlington, Ontario L7L 4X8 - Tel. 905-335-5055

EU: Chesterton International GmbH, Am Lenzenfleck 23,
D85737 Ismaning, Germany – Tel. +49-89-996-5460

Supplier:

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 Regulation (EC) No 1272/2008 [CLP]
Aerosol 1, H222, H229
Asp. Tox. 1, H304*
EUH066

2.1.2. Classification according to 29 CFR 1910.1200 / WHMIS 2015
Flam. Aerosol 1, H222
Asp. Tox. 1, H304
Compressed gas, H280

2.1.3. Classification according to WHMIS 1988
B5: Flammable aerosols; A: Compressed gases

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

2.1.5. Additional information
For full text of H-statements: see SECTIONS 2.2 and 16.
*Labelling not required for aerosols containing substances or mixtures classified as presenting an aspiration hazard, under Article 23 of the CLP.
2.2. Label elements

2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms:

Signal word: Danger

Hazard statements:
- H222 Extremely flammable aerosol.
- H229 Pressurized container: May burst if heated.

Precautionary statements:
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P260 Do not breathe vapours/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P410/412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Supplemental information: EUH066 Repeated exposure may cause skin dryness or cracking.

2.2.2. Labelling according to 29 CFR 1910.1200 / WHMIS 2015

Hazard pictograms:

Signal word: Danger

Hazard statements:
- H222 Extremely flammable aerosol.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.

Precautionary statements:
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P260C Do not breathe vapours/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P301/310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331 Do NOT induce vomiting.
- P403 Store in a well-ventilated place.
- P405 Store locked up.
- P410/412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
- P501A Dispose of contents/container to ... (in accordance with local/regional/national/international regulations [to be specified]) and WHMIS 2015

Supplemental information: Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

As with any organic solvent based product, care should be taken to avoid excessive inhalation of vapors. This is especially important in enclosed areas or areas with poor ventilation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<table>
<thead>
<tr>
<th>Hazardous Ingredients¹</th>
<th>% Wt.</th>
<th>CAS No./ EC No.</th>
<th>REACH Reg. No.</th>
<th>CLP/GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy*</td>
<td>80-90</td>
<td>64742-48-9 265-150-3</td>
<td>NA</td>
<td>Flam. Liq. 4, H227*** Asp. Tox. 1, H304 EUH066</td>
</tr>
<tr>
<td>Propane**</td>
<td>5-10</td>
<td>74-98-6 200-827-9</td>
<td>NA</td>
<td>Flam. Gas 1, H220 Press. Gas (Comp.), H280 Simple Asphyx. (US/Can.)</td>
</tr>
<tr>
<td>Butane**</td>
<td>5-10</td>
<td>106-97-8 203-448-7</td>
<td>NA</td>
<td>Flam. Gas 1, H220 Press. Gas (Comp.), H280 Simple Asphyx. (US/Can.)</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. 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

Direct eye contact may result in eye irritation. Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects. Prolonged or repeated skin contact may defat the skin and cause skin irritation. Aspiration into the lungs may cause chemical pneumonitis or pulmonary oedema.

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

Pressurized containers, when heated, are a potential explosive hazard.

5.3. Advice for firefighters

Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus.

**Flammability Classification:** NFPA: Storage Level III; 16CFR 1500.3 Extremely flammable aerosol

**HAZCHEM Emergency Action Code:** 2 Y

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1. Personal precautions, protective equipment and emergency procedures

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

Evacuate area. Provide adequate ventilation. 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

Shake well before using. Keep away from sources of ignition - No smoking. After handling, wash before eating, drinking or smoking. Vapors are heavier than air and will collect in low areas. Vapor accumulations could flash and/or explode if ignited. Utilize exposure controls and personal protection as specified in Section 8.

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Do not pierce or burn, even after use.

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 PEL ¹ ppm</th>
<th>OSHA PEL ¹ mg/m³</th>
<th>ACGIH TLV ² ppm</th>
<th>ACGIH TLV ² mg/m³</th>
<th>UK WEL ³ ppm</th>
<th>UK WEL ³ mg/m³</th>
<th>AUSTRALIA ES ⁴ ppm</th>
<th>AUSTRALIA ES ⁴ mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum),</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>hydrotreated heavy*</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Propane</td>
<td>1000</td>
<td>1800</td>
<td>*</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Butane</td>
<td>–</td>
<td>–</td>
<td>1000</td>
<td>–</td>
<td>600</td>
<td>1450</td>
<td>800</td>
<td>1900</td>
</tr>
</tbody>
</table>

* Chesterton recommended limit: 171 ppm (1200 mg/m³).
1 United States Occupational Health & Safety Administration permissible exposure limits.
2 American Conference of Governmental Industrial Hygienists threshold limit values.
3 EH40 Workplace exposure limits, Health & Safety Executive
4 Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003].

8.2. Exposure controls

8.2.1. Engineering measures

Use only in well-ventilated areas. If exposure limits are exceeded, provide adequate ventilation. Vapors are heavier than air and will collect in low areas.

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 (e.g. Viton*, neoprene or nitrile) as necessary to prevent skin contact. *DuPont's registered trademark.

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>
<th>Odour</th>
<th>Mild odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Clear</td>
<td>Odour threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>188°C (370°F), product only</td>
<td>Vapour pressure @ 20°C</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not determined</td>
<td>% Aromatics by weight</td>
<td>≤ 0.01%, product only</td>
</tr>
<tr>
<td>% Volatile (by volume)</td>
<td>100%</td>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>61°C (142°F), product only</td>
<td>Relative density</td>
<td>0.77 kg/l</td>
</tr>
<tr>
<td>Method</td>
<td>Closed Cup</td>
<td>Weight per volume</td>
<td>6.4 lbs/gal.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not determined</td>
<td>Coefficient (water/oil)</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>227°C (440°F), product only</td>
<td>Vapour density (air=1)</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
<td>Rate of evaporation (ether=1)</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Upper/lower flammability or</td>
<td>LEL 1.2; UEL 9.9</td>
<td>Solubility in water</td>
<td>Negligible</td>
</tr>
<tr>
<td>explosive limits</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
<td>Oxidising properties</td>
<td>Not determined</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not determined</td>
<td></td>
<td></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
Reactive metals and 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 may be aggravated by exposure.

Information is based on available data on product components. Product as a whole has not been evaluated.

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>Naphtha (petroleum), hydrotreated heavy</td>
<td>LD50</td>
<td>&gt; 10000 mg/kg</td>
</tr>
</tbody>
</table>

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>Naphtha (petroleum), hydrotreated heavy</td>
<td>LD50</td>
<td>&gt; 3160 mg/kg</td>
</tr>
</tbody>
</table>

Inhalation: Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects. 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>Petroleum gases, liquefied, sweetened</td>
<td>LC50, rat, 4 h</td>
<td>658 mg/l</td>
</tr>
<tr>
<td>Propane</td>
<td>LC50, rat, 4 hours</td>
<td>658 mg/l</td>
</tr>
<tr>
<td>Butane</td>
<td>LC50, rat, 4 hours</td>
<td>30957 mg/m³</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation: Naphtha (petroleum), hydrotreated heavy: based on available data, the classification criteria are not met; May cause mild eye irritation.

Respiratory or skin sensitisation:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td>Skin sensitization, read-across</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: Naphtha (petroleum), hydrotreated heavy: based on available data, the classification criteria are not met.

STOT-single exposure: Naphtha (petroleum), hydrotreated heavy: not expected to cause organ damage from a single exposure.

STOT-repeated exposure: Naphtha (petroleum), hydrotreated heavy: based on available data, the classification criteria are not met.
Aspiration hazard: Aspiration into the lungs may cause chemical pneumonitis or pulmonary oedema.
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
Not expected to be harmful to aquatic organisms.

12.2. Persistence and degradability
Naphtha (petroleum), hydrotreated heavy: can degrade in air; may biodegrade. This substance is expected to be removed in a wastewater treatment facility.

12.3. Bioaccumulative potential
Not determined

12.4. Mobility in soil
Liquid. Insoluble in water. Floats on 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 environment.

12.5. Results of PBT and vPvB assessment
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Other adverse effects
None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Incinerate absorbed material with a properly licensed facility. Incinerate pressurized or sealed containers in an approved facility. 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: UN1950
TDG: UN1950
US DOT: UN1950

14.2. UN proper shipping name
ICAO: Aerosols, Flammable
IMDG: Aerosols
ADR/RID/ADN: Aerosols, flammable
TDG: Aerosols, flammable
US DOT: Aerosols, flammable

14.3. Transport hazard class(es)
ADR/RID/ADN/IMDG/ICAO: 2.1
TDG: 2.1
US DOT: 2.1

14.4. Packing group
ADR/RID/ADN/IMDG/ICAO: NOT APPLICABLE
TDG: NOT APPLICABLE
US DOT: NOT APPLICABLE

14.5. Environmental hazards
NO ENVIRONMENTAL HAZARDS

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: Shipped as Consumer Commodity ORM-D in packaging having a rated capacity gross weight of 66 lb. or less (49 CFR 173.306(i)). ERG NO. 126
IMDG: EmS. F-D, S-U. Shipped as Limited Quantity
ADR: Classification code 5F, Tunnel restriction code (E), Shipped as Limited Quantity
SECTION 15: REGULATORY INFORMATION

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

15.1.1. EU regulations

Authorisations under Title VII: Not applicable
Restrictions under Title VIII: None


15.1.2. National regulations

US EPA SARA TITLE III

312 Hazards: None
313 Chemicals: TSCA: All chemical components are listed in the TSCA inventory.

Other national regulations: National implementations of the EC Directives referred to in section 15.1.1.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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
CLP: Classification Labelling Packaging Regulation (1272/2008/EC)
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
PBT: Persistent, Bioaccumulative and Toxic substance
(Q)SAR: Quantitative Structure-Activity Relationship
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC)
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
vPvB: very Persistent and very Bioaccumulative substance
WEL: Workplace Exposure Limit
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 (CINESST)
Chemical Classification and Information Database (CCID)
European Chemicals Agency (ECHA) - Information on Chemicals
Hazardous Substances Information System (HSIS)
National Institute of Technology and Evaluation (NITE)
Swedish Chemicals Agency (KEMI)
U.S. National Library of Medicine Toxicology Data Network (TOXNET)
### Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 [CLP]:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerosol 1, H222, H229</td>
<td>On basis of components</td>
</tr>
<tr>
<td>Asp. Tox. 1, H304</td>
<td>On basis of components</td>
</tr>
<tr>
<td>EUH066</td>
<td>Bridging principle &quot;Dilution&quot;</td>
</tr>
</tbody>
</table>

**Relevant H-statements:**
- H220: Extremely flammable gas.
- H280: Contains gas under pressure; may explode if heated.
- H304: May be fatal if swallowed and enters airways.
- H227: Combustible liquid.

**Hazard pictogram names:** Flame, Gas cylinder, health hazard

**Changes to the SDS in this revision:** Section 1.3.

**Revision date:** 26 April 2018

**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.