

## SAFETY DATA SHEET

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

**Revision date:** 26 April 2018      **Initial date of issue:** 18 November 2008      **SDS No.** 382A-8a

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

#### 1.1. Product identifier

292 Precision Degreasing Solvent (Aerosol)

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Hydrocarbon base cleaner. Dissolves grease, oil, tar and similar soils.

#### 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](http://www.chesterton.com)  
E-mail (SDS questions): [ProductMSDSs@chesterton.com](mailto:ProductMSDSs@chesterton.com)  
E-mail: [customer.service@chesterton.com](mailto:customer.service@chesterton.com)

##### Supplier:

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

#### 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] / 29 CFR 1910.1200 / WHMIS 2015 / GHS

Aerosol 1, H222, H229  
Skin Irrit. 2, H315  
Skin Sens. 1, H317  
STOT SE 3, H336  
Aquatic Chronic 2, H411

##### 2.1.2. Classification according to WHMIS 1988

B5: Flammable aerosols; A: Compressed gases; 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 Regulation (EC) No 1272/2008 [CLP] / 29 CFR 1910.1200 / WHMIS 2015 / GHS

Hazard pictograms:



Signal word:

Danger

<b>Hazard statements:</b>	H222	Extremely flammable aerosol.
	H229	Pressurized container: May burst if heated.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H336	May cause drowsiness or dizziness.
	H411	Toxic to aquatic life with long lasting effects.
<b>Precautionary statements:</b>	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.
	P261	Avoid breathing vapours/spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves.
	P333/313	If skin irritation or rash occurs: Get medical advice/attention.
	P362/364	Take off contaminated clothing and wash it before reuse.
	P410/412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
<b>Supplemental information:</b>	None	

**2.3. Other hazards**

None known

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

<b>Hazardous Ingredients<sup>1</sup></b>	<b>% Wt.</b>	<b>CAS No./ EC No.</b>	<b>REACH Reg. No.</b>	<b>CLP/GHS Classification</b>
Distillates (petroleum), hydrotreated light	80-90	64742-47-8 265-149-8	NA	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 3, H412
d-Limonene, food grade (Orange terpenes)	5-9	5989-27-5* 227-813-5	01-211952 9223-47	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2B, H320** Aquatic Acute 1, H400 Aquatic Chronic 1, H410 (M-factor = 1)
Carbon dioxide	1-5	124-38-9 204-696-9	NA	Press. Gas, H280

\*Alternative CAS No: 68647-72-3 and 8028-48-6. \*\*Non-CLP classification.

For full text of H-statements: see SECTION 16.

<sup>1</sup> Classified according to: \* 29 CFR 1910.1200, 1915, 1916, 1917, Mass. Right-to-Know Law (ch. 40, M.G.L.O. 111F), California Proposition 65  
\* 1272/2008/EC, REACH  
\* WHMIS 2015  
\* Safe Work Australia

**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 contact may cause skin and eye irritation. High vapor concentrations may 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 dermatitis. May cause an allergic skin reaction.

**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 or foam**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 Level 3 Aerosol; 16 CFR 1500. 3 Flammable Aerosol.**HAZCHEM Emergency Action Code:** 2 Z**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**

Shake well before using. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No 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. After handling, wash before eating, drinking or smoking. Remove contaminated clothing and wash before reuse.

**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**

Ingredients	OSHA PEL <sup>1</sup>		ACGIH TLV <sup>2</sup>		UK WEL <sup>3</sup>		AUSTRALIA ES <sup>4</sup>	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Distillates (petroleum), hydrotreated light*	–	–	197*	1200*	–	–	–	–
d-Limonene, food grade**	–	–	–	–	–	–	–	–
Carbon dioxide	5000	9000	5000	9000	5000	9150	5000	9000
			STEL:		STEL:		STEL:	
			30000	54000	15000	27400	30000	54000

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

\*\*American Industrial Hygiene Association (AIHA) recommended limit: 30 ppm.

- <sup>1</sup> United States Occupational Health & Safety Administration permissible exposure limits.  
<sup>2</sup> American Conference of Governmental Industrial Hygienists threshold limit values.  
<sup>3</sup> EH40 Workplace exposure limits, Health & Safety Executive  
<sup>4</sup> 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. Do not allow vapors to accumulate.

**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-P2).

**Protective gloves:** Chemical resistant gloves (e.g., natural rubber, neoprene or PVC).

**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**

<b>Physical state</b>	liquid	<b>Odour</b>	mild sweet petroleum odor
<b>Colour</b>	clear	<b>Odour threshold</b>	not determined
<b>Initial boiling point</b>	157°C (315°F)	<b>Vapour pressure @ 20°C</b>	2 mm Hg
<b>Melting point</b>	not determined	<b>% Aromatics by weight</b>	< 1
<b>% Volatile (by volume)</b>	100%	<b>pH</b>	not applicable
<b>Flash point</b>	41°C (105°F), product only.	<b>Relative density</b>	0.78 kg/l
<b>Method</b>	PM Closed Cup	<b>Weight per volume</b>	6.5 lbs/gal
<b>Viscosity</b>	1.3 cps @ 25°C	<b>Coefficient (water/oil)</b>	< 1
<b>Autoignition temperature</b>	not determined	<b>Vapour density (air=1)</b>	> 1
<b>Decomposition temperature</b>	not determined	<b>Rate of evaporation (ether=1)</b>	< 1
<b>Upper/lower flammability or explosive limits</b>	not determined	<b>Solubility in water</b>	insoluble
<b>Flammability (solid, gas)</b>	not applicable	<b>Oxidising properties</b>	not determined
<b>Explosive properties</b>	not determined		

**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 and high temperatures.

**10.5. Incompatible materials**

Strong acids and strong oxidizers like liquid Chlorine and concentrated Oxygen.

**10.6. Hazardous decomposition products**

Carbon Monoxide, Carbon Dioxide 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 and lung disorders are generally aggravated by exposure.

**Acute toxicity -**

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

Substance	Test	Result
Distillates (petroleum), hydrotreated light	LD50, rat	> 5000 mg/kg
d-Limonene, food grade	LD50, rat	≥ 4400 mg/kg

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

Substance	Test	Result
Distillates (petroleum), hydrotreated light	LD50, rabbit	> 2000 mg/kg
d-Limonene, food grade	LD50, rabbit	> 2000 mg/kg

**Inhalation:** Based on available data on components, the classification criteria are not met. High vapor concentrations may cause eye and respiratory tract irritation, dizziness, headache and other central nervous system effects.

Substance	Test	Result
Distillates (petroleum), hydrotreated light	LC50, rat, 4 h	> 5.2 mg/l (vapor)
d-Limonene	RD50, mice, 10 min.	5.983 mg/l

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

Substance	Test	Result
Distillates (petroleum), hydrotreated light	Skin irritation, rabbit	Mild irritation (read-across)
d-Limonene	Skin irritation, human, rabbit	Irritating

**Serious eye damage/irritation:** May cause eye irritation.

Substance	Test	Result
Distillates (petroleum), hydrotreated light	Eye irritation, rabbit	Mild irritation (read-across)

**Respiratory or skin sensitisation:** May cause an allergic skin reaction. d-Limonene itself is not a skin sensitizer but some of its oxidation products are known skin sensitizers.

Substance	Test	Result
Distillates (petroleum), hydrotreated light	Skin Sens, guinea pig	Not sensitizing

**Germ cell mutagenicity:** Distillates (petroleum), hydrotreated light, d-Limonene: 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:** Not expected to be a reproductive toxicant.

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

**STOT-repeated exposure:** Not expected to cause toxicity.

**Aspiration hazard:** Not classified as an aspiration toxicant due to the aerosol spray pattern.

**Other information:** None known

## 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 organisms, may cause long-term adverse effects in the aquatic environment.

### 12.2. Persistence and degradability

Hazardous ingredients, vapor phase: oxidize rapidly by photochemical reactions in air; expected to be readily biodegradable. This substance is expected to be removed in a wastewater treatment facility.

**12.3. Bioaccumulative potential**

d-Limonene: has the potential to bioaccumulate [Octanol/water partition coefficient (log Kow): 4.23].

**12.4. Mobility in soil**

Liquid. Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). In aquatic systems, d-Limonene may adsorb to organic matter in sediments and suspended solids. This substance is highly volatile and 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 containers at 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

**Other EU regulations:** Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers. Directive 94/33/EC on the protection of young people at work.

### 15.1.2. National regulations

#### US EPA SARA TITLE III

#### 312 Hazards:

Immediate  
Fire

#### 313 Chemicals:

None

**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](http://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 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] / GHS:**

Classification	Classification procedure
Aerosol 1, H222, H229	On basis of components
STOT SE 3, H336	Bridging principle "Dilution"
Skin Sens. 1, H317	Bridging principle "Dilution"
Skin Irrit. 2, H315	Calculation method
Aquatic Chronic 2, H411	Calculation method

**Relevant H-statements:** H226: Flammable liquid and vapour.  
H280: Contains gas under pressure; may explode if heated.  
H304: May be fatal if swallowed and enters airways.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H320: Causes eye irritation.  
H336: May cause drowsiness or dizziness.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

**Hazard pictogram names:** Flame, gas cylinder, exclamation mark, environment

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

**Date of last revision:** 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.