

SAFETY DATA SHEET

in accordance with REACH (1907/2006/EC, as amended by 453/2010/EC)

Revision date: 18 January 2013

Initial date of issue: 6 July 2007

SDS No. 175-22

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

1.1. Product identifier

723 Sprasolvo®

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

Penetrating oil - frees nuts, bolts, fittings without injury to base metal.

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)
E-mail (SDS questions): ProductMSDSs@chesterton.com
E-mail: customer.service@chesterton.com
SDS requests: www.chesterton.com

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)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP] / GHS

Flam. Aerosol 2, H223
STOT SE 3, H336
EUH066
Aquatic Chronic 2, H411

2.1.2. Classification according to Directive 1999/45/EC

Flammable; F; R10
R66
Dangerous for the environment; N; R51/53

2.1.3. Canadian WHMIS classification

A: Compressed gases; D2B: Toxic materials causing other effects

2.1.4. Australian classification

Hazardous according to criteria of Safe Work Australia.

2.1.5. Additional information

For full text of H-statements and R-phrases: see SECTIONS 2.2 and 16.

2.2. Label elements

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

Hazard pictograms:



Signal word:

Warning

Hazard statements:	H223 H336 H411	Flammable aerosol. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.
Precautionary statements:	P210 P211 P251 P410/412 P261 P312	Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. Avoid breathing vapours/spray. Call a POISON CENTER or doctor/physician if you feel unwell.
Supplemental information:	EUHO66	Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

None known

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

Hazardous Ingredients ¹	% Wt.	CAS No./ EC No.	REACH Reg. No.	Classification (acc. to 1272/2008/EC)	Classification (67/548/EEC)
Distillates (Petroleum), Hydrotreated Light	40-50	64742-47-8 265-149-8	NA	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 EUH066 Aquatic Chronic 2, H411	R10 Xn; R65 R66 N; R51/53
Carbon Dioxide	1-5	124-38-9 204-696-9	NA	Not classified	Not classified
Distillates (petroleum), hydrotreated heavy naphthenic*	45-55	64742-52-5 265-155-0	01-2119 467170	Asp. Tox. 1, H304	Not classified

Indications of danger acc. to 67/548/EEC: Xn: Harmful; N: Dangerous for the environment

*Contains less than 3 % DMSO extract as measured by IP 346.

¹Classified 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, 67/548/EEC, 99/45/EC, REACH
* Controlled Products Regulations
* Safe Work Australia [NOHSC: 1008 (2004)]

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures**

Inhalation: Remove to fresh air. If not breathing, administer artificial respiration.
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 mild eye irritation. High vapor concentrations cause eye and respiratory tract irritation and 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: FIRE-FIGHTING MEASURES**5.1. Extinguishing media****Suitable extinguishing media:** Carbon Dioxide, dry chemical, foam or water spray**Unsuitable extinguishing media:** Water jets**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; 16 CFR 1500.3 Non-flammable aerosol

HAZCHEM Emergency Action Code: 2 **Y**

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.

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**

Hazardous Ingredients	OSHA PEL		ACGIH TLV		UK WEL		AUSTRALIA ES	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Distillates (Petroleum), Hydrotreated Light	500	–	179	1200	–	–	–	–
Carbon Dioxide	5000	9000	5000	9000	5000	9150	5000	9000
			30000	54000	15000	27400	30000	54000
Oil mist, mineral	–	5	–	5 (inhal)	–	–	–	5

8.2. Exposure controls**8.2.1. Engineering measures**

No special requirements. 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 necessary, utilize an approved organic vapor respirator (e.g., EN filter type A/P).

Protective gloves: Chemical resistant gloves (e.g., nitrile rubber, butyl rubber, neoprene, PVC)

Eye and face protection: Recommend safety glasses.

Other: None

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**

Physical state	liquid	Odour	petroleum distillate odor
Colour	blue	Odour threshold	not determined
Initial boiling point	not determined	Vapour pressure @ 20°C	not determined
Melting point	not determined	% Aromatics by weight	0.5%
% Volatile (by volume)	50%	pH	not applicable
Flash point	49°C (120°F), product only	Relative density	0.83 kg/l
Method	Tag Closed Cup	Weight per volume	6.9 lbs/gal
Viscosity	< 100 cps @ 25°C	Coefficient (water/oil)	< 1
Autoignition temperature	not determined	Vapour density (air=1)	> 1
Decomposition temperature	no data available	Rate of evaporation (ether=1)	< 1
Upper/lower flammability or explosive limits	LEL 1.2%, UEL 9.9%	Solubility in water	negligible
Flammability (solid, gas)	not determined	Oxidising properties	not determined
Explosive properties	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 oxidizers like liquid Chlorine and concentrated Oxygen, reactive metals.

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.

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.

Substance	Test	Result
Distillates (Petroleum), Hydrotreated Light	LD50, rat	> 5000 mg/kg
Distillates (petroleum), hydrotreated heavy naphthenic	LD50, rat	> 5000 mg/kg, estimated

Dermal:

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

Substance	Test	Result
Distillates (Petroleum), Hydrotreated Light	LD50, rabbit	> 2000 mg/kg
Distillates (petroleum), hydrotreated heavy naphthenic	LD50, rabbit	> 2000 mg/kg, estimated

Inhalation:

High vapor concentrations cause eye and respiratory tract irritation and dizziness, headache and other central nervous system effects.

Substance	Test	Result
Distillates (Petroleum), Hydrotreated Light	LC50, rat, 4 hours	> 5.28 mg/l
Distillates (petroleum), hydrotreated heavy naphthenic	LC50, rat, 4 hours	> 5 mg/l, estimated

Skin corrosion/irritation:

Prolonged or repeated skin contact may defat the skin and cause skin irritation.

Substance	Test	Result
Distillates (Petroleum), Hydrotreated Light	Skin irritation, rabbit	Not irritating; Slightly irritating; Moderate irritation
Distillates (petroleum), hydrotreated heavy naphthenic	Skin irritation, rabbit	Not irritating

Serious eye damage/irritation:

Based on available data, the classification criteria are not met. Direct contact may cause mild eye irritation.

Substance	Test	Result
Distillates (Petroleum), Hydrotreated Light	Eye irritation, rabbit	Not irritating; Slightly irritating
Distillates (petroleum), hydrotreated heavy naphthenic	Eye irritation, rabbit (OECD 405)	Not irritating

Respiratory or skin sensitisation:

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

Substance	Test	Result
Distillates (Petroleum), Hydrotreated Light	Skin sensitization, guinea pig	Not sensitizing
Distillates (petroleum), hydrotreated heavy naphthenic	Skin sensitization, guinea pig (OECD 406)	Not sensitizing

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:

Not classified as an aspiration toxicant (aerosol).

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

12.2. Persistence and degradability

Mineral oil, biodegradation: 31% (OECD 301F, 28 days). Distillates (Petroleum), Hydrotreated Light: can degrade in air; inherently biodegradable.

12.3. Bioaccumulative potential

Mineral oil: not expected to bioaccumulate. Distillates (Petroleum), Hydrotreated Light, Octanol/water partition coefficient (log Kow): 2.1-5 (estimated).

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). Distillates (Petroleum), Hydrotreated Light: 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 91/689/EEC.

European List of Wastes code: 15 01 10

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 96/82/EC on the control of major-accident hazards involving dangerous substances (Petroleum products, qualifying quantities: 2 500 t, 25 000 t).

15.1.2. National regulations**US EPA SARA TITLE III**

312 Hazards:

Fire
Immediate

Pressure
Release

313 Chemicals:

None

TSCA: All chemical components are listed in the TSCA inventory.

Hazardous Materials Identification System (HMIS)

4 = Severe Hazard
3 = Serious Hazard
2 = Moderate Hazard
1 = Slight Hazard
0 = Minimal Hazard
* = See Section 8

HEALTH	1
FLAMMABILITY	3
REACTIVITY	1
Personal Protection	*

JAPAN PRTR	Class I Chemicals: None	Class II Chemicals: None
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:	ACGIH: American Conference of Governmental Industrial Hygienists 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 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 NOEL: No Observed Effect Level OSHA: Occupational Health & Safety Administration PBT: Persistent, Bioaccumulative and Toxic substance PEL: Permissible Exposure Limit REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC) RID: Regulations concerning the International Carriage of Dangerous Goods by Rail SDS: Safety Data Sheet STEL: Short Term Exposure Limit STOT: Specific Target Organ Toxicity TDG: Transportation of Dangerous Goods (Canada) TLV: Threshold Limit Value 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 de la santé et de la sécurité du travail (CSST) European chemical Substances Information System (ESIS) European Chemicals Agency (ECHA) - Information on Chemicals Hazardous Substances Data Bank (HSDB) Hazardous Substances Information System (HSIS) Swedish Chemicals Agency (KEMI)	
Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008:		
Classification	Classification procedure	
Flam. Aerosol 2, H223	On basis of test data	
STOT SE 3, H336	Calculation method	
EUH066	Bridging principle "Dilution"	
Aquatic Chronic 2, H411	Calculation method	
Relevant H-statements:	EUH066: Repeated exposure may cause skin dryness or cracking. H226: Flammable liquid and vapour. H304: May be fatal if swallowed and enters airways. H336: May cause drowsiness or dizziness. H411: Toxic to aquatic life with long lasting effects.	
Relevant R-phrases:	R10: Flammable. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65: Harmful: may cause lung damage if swallowed. R66: Repeated exposure may cause skin dryness or cracking.	
Hazard pictogram names:	Flame, exclamation mark, environment	
Changes to the SDS in this revision:	Sections 1-16, updated to new format.	

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.