

## SAFETY DATA SHEET

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

Revision date: 30 May 2014

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SDS No. 151A-19

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

#### 1.1. Product identifier

775 Moisture Shield (Aerosol)

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

Displaces moisture; deposits a clear, protective coating for metals in process, storage, transit, use. Easily removable. This is a solvent base coating.

#### 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:

#### 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

Aerosol 1, H222, H229  
STOT SE 3, H336  
EUH066  
Aquatic Chronic 2, H411

##### 2.1.2. Classification according to Directives 1999/45/EC and 1975/324/EEC

Extremely flammable; F+; R12  
R66  
Dangerous for the environment; N; R51/53

##### 2.1.3. Canadian WHMIS classification

A: Compressed gases; B5: Flammable aerosols

##### 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:

Danger

<b>Hazard statements:</b>	H222	Extremely flammable aerosol.
	H229	Pressurized container: May burst if heated.
	H336	May cause drowsiness or dizziness.
	H411	Toxic to aquatic life with long lasting effects.
<b>Precautionary statements:</b>	P210	Keep away from heat/sparks/open flames/hot surfaces. — 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.
	P261	Avoid breathing mist/vapours/spray.
	P312	Call a POISON CENTER or doctor/physician if you feel unwell.
	P410/412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
<b>Supplemental information:</b>	EUH066 Repeated exposure may cause skin dryness or cracking.	

**2.3. Other hazards**

Direct eye contact may result in eye irritation.

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

Hazardous Ingredients <sup>1</sup>	% Wt.	CAS No./ EC No.	REACH Reg. No.	Classification (acc. to 1272/2008/EC)	Classification (67/548/EEC)
Distillates (petroleum), hydrotreated light	75-85	64742-47-8 265-149-8	NA	Asp. Tox. 1, H304 EUH066 STOT SE 3, H336 Aquatic Chronic 2, H411	Xn; R65 R66 N; R51/53
Hydrocarbon Waxes (Petroleum), Oxidized, Me Esters, Barium Salts	5-10	68603-10-1 271-637-1	NA	Acute Tox. 4, H302/H332	Xn; R20/22
Benzenesulfonic acid, di-C10-18-alkyl derivs., barium salts	1-5	93820-55-4 298-635-3	NA	Acute Tox. 4, H302/H332	Xn; R20/22 Xi; R38
Carbon Dioxide	1-5	124-38-9 204-696-9	NA	Not classified*	Not classified
Distillates (petroleum), hydrotreated heavy naphthenic**	5-10	64742-52-5 265-155-0	01-211946 7170-45	Asp. Tox. 1, H304	Not classified

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

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

\*Substance with a workplace exposure limit.

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

<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, 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. 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 mild eye irritation. Inhalation of excessive vapors may result in irritation of the eyes and respiratory tract, 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:** –

**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. Pick up with absorbent material (sand, sawdust, clay, etc.) and place in a suitable container for disposal. Keep away from sources of ignition - No smoking. If removal of ignition sources is not possible, then flush material away with water.

**6.4. Reference to other sections**

Refer to section 13 for disposal advice.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Vapors are heavier than air and will collect in low areas. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No 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****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	–	–	179	1200	–	–	–	–
Hydrocarbon Waxes (Petroleum), Oxidized, Me Esters, Barium Salts	–	–	–	–	–	–	–	–
Benzenesulfonic acid, di-C10-18-alkyl derivs., barium salts	–	–	–	–	–	–	–	–
Carbon Dioxide	5000	9000	5000	9000	5000	9150	5000	9000
			STEL:		STEL:		STEL:	
			30000	54000	15000	27400	30000	54000
Oil mist, mineral	–	5	(inhal)	5	–	–	–	5

<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

No special requirements. If exposure limits are exceeded, provide adequate ventilation.

### 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-P).

**Protective gloves:** Chemical resistant gloves (e.g., rubber, nitrile)

**Eye and face protection:** Safety goggles or glasses.

**Other:** Impervious clothing as necessary for repetitive, prolonged 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 petroleum odor
<b>Colour</b>	amber	<b>Odour threshold</b>	not determined
<b>Initial boiling point</b>	207°C (405°F), product only	<b>Vapour pressure @ 20°C</b>	not determined
<b>Melting point</b>	not determined	<b>% Aromatics by weight</b>	not known
<b>% Volatile (by volume)</b>	82%	<b>pH</b>	–
<b>Flash point</b>	66°C (150°F), product only	<b>Relative density</b>	0.8 kg/l
<b>Method</b>	PM Closed Cup	<b>Weight per volume</b>	6.73 lbs/gal.
<b>Viscosity</b>	not known	<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 applicable
<b>Explosive properties</b>	not applicable		

### 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:**

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

**Dermal:**

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

**Inhalation:**

Inhalation of excessive vapors may result in irritation of the eyes and respiratory tract, dizziness, headache and other central nervous system effects.

Substance	Test	Result
Distillates (petroleum), hydrotreated light	LC50, rat, 4 hours	> 5.2 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:**

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	Not irritating

**Respiratory or skin sensitisation:**

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

**Germ cell mutagenicity:**

Distillates (petroleum), hydrotreated light, Distillates (petroleum), hydrotreated heavy naphthenic: 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:**

Distillates (petroleum), hydrotreated light, Distillates (petroleum), hydrotreated heavy naphthenic: based on available data, the classification criteria are not met.

**STOT-single exposure:**

May cause drowsiness or dizziness.

**STOT-repeated exposure:**

Distillates (petroleum), hydrotreated light, Distillates (petroleum), hydrotreated heavy naphthenic: based on available data, the classification criteria are not met.

**Aspiration hazard:**

Not classified as an aspiration toxicant (aerosol).

**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**

Distillates (petroleum), hydrotreated light: can degrade in air; inherently biodegradable. Distillates (petroleum), hydrotreated naphthenic: not readily biodegradable (biodegradation, OECD 301F, 28 days: 31%).

**12.3. Bioaccumulative potential**

Distillates (petroleum), hydrotreated light: Octanol/water partition coefficient (log Kow) = 2.1-6.5. Distillates (petroleum), hydrotreated naphthenic: not expected to bioaccumulate.

**12.4. Mobility in soil**

Liquid. Insoluble in 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**

Not available

**12.6. Other adverse effects**

None known

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

Incinerate absorbed material with a properly licensed facility. Treatment standards for Barium may need to be met prior to land disposal. 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.

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:** Immediate  
Fire  
Pressure  
Release

**313 Chemicals:** Barium Compounds

5-10%

**Hazardous Materials Identification System (HMIS)**

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

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>4</b>
<b>REACTIVITY</b>	<b>1</b>
<b>Personal Protection</b>	<b>*</b>

**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  
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  
NOAEL: No Observed Adverse Effect Level  
NOEL: No Observed Effect Level  
PBT: Persistent, Bioaccumulative and Toxic substance  
(Q)SAR: Quantitative Structure-Activity Relationship  
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)  
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 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
Aerosol 1, H222	On basis of components
STOT SE 3, H336	Bridging principle "Dilution"
EUH066	Bridging principle "Dilution"
Aquatic Chronic 2, H411	Calculation method

**Relevant H-statements:** EUH066: Repeated exposure may cause skin dryness or cracking.  
H222: Extremely flammable aerosol.  
H229: Pressurized container: May burst if heated.  
H302: Harmful if swallowed.  
H304: May be fatal if swallowed and enters airways.  
H332: Harmful if inhaled.  
H336: May cause drowsiness or dizziness.  
H411: Toxic to aquatic life with long lasting effects.

**Relevant R-phrases:** R20/22: Harmful by inhalation and if swallowed.  
R38: Irritating to skin.  
R51: Toxic to aquatic organisms.  
R53: May cause long-term adverse effects in the aquatic environment.  
R65: Harmful: may cause lung damage if swallowed.  
Repeated exposure may cause skin dryness or cracking: Repeated exposure may cause skin dryness or cracking.

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

**Changes to the SDS in this revision:** Sections 3, 8.1, 16.

**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.