

SAFETY DATA SHEET

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

Revision date: 2 June 2014

Initial date of issue: 6 July 2007

SDS No. 151B-20

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1. Product identifier

775 Moisture Shield (Bulk)

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
E-mail (SDS questions): ProductMSDSs@chesterton.com
E-mail: 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

Asp. Tox. 1, H304
STOT SE 3, H336
EUH066
Aquatic Chronic 2, H411

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

Harmful; Xn; R65
R66
Dangerous for the environment; N; R51/53

2.1.3. Canadian WHMIS classification

B3: Combustible liquids; 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:

Danger

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Hazard statements:	H304 H336 H411	May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.
Precautionary statements:	P261D P403/233 P301/310 P331 P332/313 P273	Avoid breathing mist/vapours/spray. Store in a well-ventilated place. Keep container tightly closed. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. Avoid release to the environment.
Supplemental information:	EUH066 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	75-85	64742-47-8 265-149-8	NA	Acute 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
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

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

¹ 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**

None

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5.3. Advice for firefighters

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

Flammability Classification: –**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**

Ground and bond product transfer. Vapors are heavier than air and will collect in low areas. 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 and well-ventilated area.

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 ¹		ACGIH TLV ²		UK WEL ³		AUSTRALIA ES ⁴	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Distillates (petroleum), hydrotreated light	–	–	179	1200	–	–	–	–
Hydrocarbon Waxes (Petroleum), Oxidized, Me Esters, Barium Salts	–	–	–	–	–	–	–	–
Benzenesulfonic acid, di-C10-18-alkyl derivs., barium salts	–	–	–	–	–	–	–	–
Oil mist, mineral	–	5	(inhal)	5	–	–	–	5

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 Executive⁴ 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.

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Other: Impervious gloves and clothing as necessary for repetitive, prolonged contact with liquid.

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	mild petroleum odor
Colour	amber	Odour threshold	not determined
Initial boiling point	207°C (405°F)	Vapour pressure @ 20°C	< 2 mm Hg (petroleum)
Melting point	not determined	% Aromatics by weight	0.79% maximum
% Volatile (by volume)	78-82%	pH	not applicable
Flash point	69°C (156°F)	Relative density	0.8 kg/l
Method	PM Closed Cup	Weight per volume	6.65 lbs/gal.
Viscosity	not determined	Coefficient (water/oil)	< 1
Autoignition temperature	not determined	Vapour density (air=1)	> 1
Decomposition temperature	not determined	Rate of evaporation (ether=1)	< 1
Upper/lower flammability or explosive limits	not determined	Solubility in water	Insoluble
Flammability (solid, gas)	not applicable	Oxidising properties	not determined
Explosive properties	not determined		

9.2. Other information

VOC (EPA 24): 5.7 lbs/gal.

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 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 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

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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:	May be fatal if swallowed and enters airways.		
Other information:	Information is based on available data on product components. Product as a whole has not been evaluated.		

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 heavy 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 heavy naphthenic: not expected to bioaccumulate.

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12.4. Mobility in soil

Liquid. Insoluble in water. Surface tension: < 33 mN/m @ 25°C. 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. Material may be stabilized and solidified prior to disposal. Treatment standards for Barium may need to be met prior to land disposal. 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: 08 02 99

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 Limited Quantities in packaging having a rated capacity gross weight of 66 lb. or less and in inner packages not over 5 Liters (49 CFR 173.155 (b),2)

IMDG: EmS. F-A, S-F

ADR: Classification code M6 Tunnel restriction code (E)

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

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Other EU regulations: 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			Hazardous Materials Identification System (HMIS)									
312 Hazards:	313 Chemicals:		4 = Severe Hazard 3 = Serious Hazard 2 = Moderate Hazard 1 = Slight Hazard 0 = Minimal Hazard * = See Section 8	<table><tr><td>HEALTH</td><td>1</td></tr><tr><td>FLAMMABILITY</td><td>2</td></tr><tr><td>REACTIVITY</td><td>1</td></tr><tr><td>Personal Protection</td><td>*</td></tr></table>	HEALTH	1	FLAMMABILITY	2	REACTIVITY	1	Personal Protection	*
HEALTH	1											
FLAMMABILITY	2											
REACTIVITY	1											
Personal Protection	*											
Immediate	Barium Compounds	7-13%										
Fire												

Other national regulations: National implementation of the EC Directive 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.

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)

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Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008:

Classification	Classification procedure
Asp. Tox. 1, H304	Bridging principle "Dilution"
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.
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.
R51/53: 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: Exclamation mark, health hazard, environment

Changes to the SDS in this revision: Sections 3, 8.1, 11, 12.2, 12.3, 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.