



# MATERIAL SAFETY DATA SHEET

## ELASTOCOL 400

WHMIS	Protective Clothing	DOT	H.M.I.S. Rating
		Not Regulated By road	Health Hazard: 2 Fire Hazard: 2 Reactivity: 1 Personal protection: A

### SECTION I. IDENTIFICATION DU PRODUIT CHIMIQUE ET DE LA COMPAGNIE

**Product Name:** Elastocol 400  
**Use :** Adhesives

**No. De la fiche signalétique :** WAD 1004E-1.04  
**Revision date:** March 17, 2004  
**Revised by:** Marie-Claude Fontaine, Environmental, Health and Safety Supervisor  
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**In case of emergency:**  
SOPREMA (8:00am to 5:00pm): (800) 356-3521  
CHEMTREC (USA): (800) 424-9300  
**Poison Control Centre:** Consult local Telephone directory

### EMERGENCY OVERVIEW!!!

Black liquid with strong petroleum solvent odour. WARNING! This product and its vapours are flammable. The vapours are heavier than air and may spread long distances. Distant ignition and flash back are possible. Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion.

May cause skin, eye and respiratory tract irritation. Harmful or fatal if swallowed. Can cause severe injury if the product is aspirated by lung during ingestion. Inhalation of high concentrations of this product may cause central nervous system (CNS) depression (headache, nausea, dizziness, drowsiness, incoordination and unconsciousness).

**SECTION II. COMPOSITION AND INFORMATION ON INGREDIENTS**

Name	CAS #	% Weight	Limit Exposure	
			OSHA (PEL)	ACGIH (TLV)
Trimethylbenzene	25551-013-7	< 8%	25 ppm	100 ppm
Aromatic Petroleum Distillate	64742-95-6	< 3%	50 ppm	Not established
Petroleum Distillate, Naphta Solvent	64742-88-7	---	100 ppm	100 ppm
Asphalt	8052-42-4	---	10 ppm	5 mg/m <sup>3</sup> 15 ppm (TLV-STEL)

**SECTION III. POTENTIAL HEALTH EFFECTS**

<b>SKIN CONTACT:</b>	Frequent or prolonged contacts may cause skin irritation and dermatitis.
<b>EYE CONTACT:</b>	The vapours or splashes may cause eye irritation, redness and pain.
<b>INHALATION:</b>	Inhalation of vapours may be irritating to the nose, throat and respiratory tract. It can cause depression of central nervous system (headaches, nausea, dizziness, drowsiness, lack of coordination, unconsciousness or death).
<b>INGESTION:</b>	This product is highly toxic by ingestion. This product when accidentally aspirated into lungs can cause a severe pulmonary inflammation.

**SECTION IV. FIRST AID MEASURES**

<b>SKIN CONTACT:</b>	Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists, get medical attention.
<b>EYE CONTACT:</b>	Flush thoroughly with water for at least 15 minutes. If irritation persists, get medical attention.
<b>INHALATION:</b>	In case of gas or vapour inhalation, move victim to fresh air. If breathing is difficult, give oxygen. If breathing stops, give respiratory assistance. Obtain medical assistance.
<b>SWALLOWING:</b>	Do not induce vomiting. Immediately contact local poison control centre. Should vomiting occur, be sure to keep the victim's head below hips to avoid aspiration of vomit into the lungs. Maintain the victim at rest and obtain immediate medical attention.

**SECTION V. FIRE-FIGHTING MEASURES**

<b>Flammability:</b>	Flammable liquid, Class IC (NFPA 30)
<b>Explosion data:</b>	Sensitivity to mechanical impact: No Sensitivity to static charge: Can accumulate static charge by flow
<b>Flash Point:</b>	110°F
<b>Auto-ignition Temperature:</b>	Not available
<b>Inflammability limits in air: (% in volume):</b>	0.9 - 6 %
<b>FIRE AND EXPLOSION HAZARDS:</b>	This product and its vapours will readily ignite under the action of heat, sparkles or flames. Vapours can form explosive mixtures with air. Vapours are heavier than air and can travel a considerable distance to a source of ignition and flash back to a leak or open container(s). This product may explode or ignite with strong oxidizing agents like chlorine or oxygen. Keep containers tightly closed. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Water can cause a fire to spread. Do not cut, puncture or weld empty containers.
<b>COMBUSTION PRODUCTS:</b>	Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion.

<b>FIRE FIGHTING INSTRUCTIONS:</b>	Evacuate area. Approach fire from upwind and fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Always stay away from containers because of the high risk of explosion. Wear self-contained breathing apparatus and appropriate protective clothing in accordance with standard CAN/CSA-Z94.4-93 of CSA, standard 29 CFR 1910.134 of OSHA or standard Z88.2 of ANSI. Stop leak before attempting to put out the fire. If leak cannot be stopped, and if there is no risk to the surrounding area, let the fire burn itself out. Move containers from fire area if this can be done without risk. Cool containers with flooding quantities of water until well after fire is out.
<b>EXTINGUISHING MEDIA:</b>	Anti-alcohol or universal foam, dry chemical powder, CO <sub>2</sub> , sand.

#### SECTION VI. ACCIDENTAL RELEASE MEASURES

<b>RELEASE OR SPILL:</b>	Ventilate area. Wear appropriate protective equipment during cleanup. Shut off source of leak if this can be done without risk. Contain the spill. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Sweep or shovel into containers with lids. Cover and remove to appropriate well ventilated area until disposal. Wash spill area with soap and water. Prevent entry into waterways, sewers, basements or confined areas. Dispose of material according to the local environmental regulations.
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#### SECTION VII. HANDLING AND STORAGE

<b>HANDLING:</b>	<p>Do not smoke. This product and its vapours are flammable and toxic. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapours and dusts. Wash thoroughly after handling. Before handling, it is very important that engineering controls are operating and that personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Eliminate all ignition sources (e.g. sparks, open flames, hot surfaces. Keep away from heat. Ground containers when transferring to avoid accumulation of static charge. Tightly reseal all partially used containers. Do not cut, puncture or weld empty containers</p> <p>Before handling, it is very important that ventilation controls are operating and protective equipment requirements are being followed. Close air intakes on roof until solvent odor dissipates. People working with this product should be properly trained regarding its hazards and its safe use. Keep away from heat. Tightly reseal all partially used containers. Do not cut, puncture or weld empty containers.</p>
<b>STORAGE:</b>	<p>Do not smoke. Store in a cool well-ventilated area out of direct sunlight and away from heat and ignition sources. Keep storage areas clear of combustible materials. Store away from incompatible materials. Store the product according to occupational health and safety regulations and fire and building codes.</p> <p>Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorised personnel. Inspect periodically for damage or leaks. Have appropriate fire extinguishers and spill clean-up equipment near storage area. Inspect all containers to make sure they are properly labelled.</p>

#### SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>HANDS:</b>	Wear chemical resistant gloves.
<b>RESPIRATORY:</b>	If the TLV is exceeded, if use is performed in a poorly ventilated confined area, use an approved respirator in accordance with standards CAN/CSA-Z94.4-93 of CSA, 29 CFR 1910.134 of OSHA, Z88.2 of ANSI or ACNOR-Z194.4-93.
<b>EYES:</b>	Wear chemical safety goggles in accordance with standard ACNOR-Z94.3-92.
<b>FEET:</b>	Work shoes in accordance with standard ACNOR-Z195-M92.
<b>BODY:</b>	Wear adequate protective clothes.
<b>OTHERS:</b>	Eye bath and safety shower.
<b>CONTROL OF VAPOURS:</b>	Local exhaust is needed to control vapour and dust level to below recommended limits.

**SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES**

<b>PHYSICAL STATE:</b>	Liquid	<b>ODOUR AND APPEARANCE:</b>	Black liquid with solvent odour.
<b>ODOUR THRESHOLD:</b>	Not available	<b>VAPOUR PRESSURE (68° F):</b>	2
<b>VAPOUR DENSITY (air = 1):</b>	Heavier than air	<b>PERCENT VOLATILE (% by volume):</b>	<50 %
<b>EVAPORATION RATE (Butyl acetate = 1):</b>	< 1	<b>BOILING POINT (760mm Hg):</b>	Not available
<b>FREEZING POINT:</b>	Not available	<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b>	7.7
<b>SOLUBILITY IN WATER (20° C):</b>	Not soluble	<b>Volatile Organic Compound (V.O.C.) Content:</b>	350 g/l
<b>VISCOSITY:</b>	Not available		

**SECTION X. STABILITY AND REACTIVITY**

<b>STABILITY:</b>	This material is stable.	<b>CONDITIONS OF REACTIVITY:</b>	Avoid excessive heat.
<b>INCOMPATIBILITY:</b>	Can react vigorously with oxidising agents, strong basis and acids, halogenated, metals such as aluminium,, magnesium powder, sodium and potassium.	<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	None identified.
<b>HAZARDOUS POLYMERISATION:</b>	None		

**SECTION XI. TOXICOLOGICAL INFORMATION**

<b>ACUTE EXPOSURE:</b>	Inhalation of vapours of this product may be irritating to the nose, throat and respiratory tract. Acute exposure can cause depression of central nervous system (headaches, nausea, dizziness, drowsiness, lack of coordination, unconsciousness).		
<b>CHRONIC EXPOSURE:</b>	Chronic exposure can cause loss of appetite, tiredness, weakness, depression of central nervous system (headaches, nausea, dizziness, drowsiness, lack of coordination, unconsciousness).  Repeated exposure to Trimethyl Benzene may cause bronchitis to develop with cough, phlegm and or shortness of breath. Trimethyl Benzene may cause changes in the blood cells and affect the blood's clotting ability.		
<b>CARCINOGENICITY:</b>	None known. Trimethyl Benzene has not been tested for its ability to cause cancer in animals.  There is no human or animal information available for Aromatic Petroleum Distillate. IARC has not evaluated the carcinogenicity of this chemical. ACGIH has no listing for this chemicals. The NTP has not listed this chemical in its report on carcinogens.  Asphalt may contain detectable amounts of chemicals known to the state of California to cause cancer or reproductive harm.		
<b>TERATOGENICITY:</b>	None known. Trimethyl Benzene has not been tested for its ability to affect reproduction.  There is no information available for the teratogenicity of the Aromatic Petroleum Distillate. Harmful effects have been observed in the offspring of rats and mice exposed by inhalation, but only in the presence of maternal toxicity.		
<b>IRRITANT MATERIAL:</b>	Moderate.		
<b>LD 50 OF MATERIAL:</b>	Not available	<b>LC 50 OF MATERIAL:</b>	Not available
<b>MUTAGENICITY:</b>	None known. No reports of mutagenicity in humans or humans cell cultures were located with the Aromatic Petroleum Distillate. Consistently negative result have been obtained in studies using live animals, cultured mammalian cells and bacteria.		
<b>SENSITISATION:</b>	None known.		
<b>REPRODUCTIVE EFFECTS:</b>	None known.		
<b>SYNERGISTIC MATERIALS:</b>	None known.		

**SECTION XII. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL EFFECTS:** Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams, or public waterways. Block off drains and ditches. Provincial regulations and federal regulations may require that environmental and / or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to the satisfaction of authorities. May be harmful to aquatic life.

**SECTION XIII. DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:** This product is listed as hazardous waste. Consult local, state, provincial or territory authorities to know disposal methods. Also listed as hazardous waste by the RCRA (USA); waste disposal as to follow EPA regulations. Do not dispose of waste with normal garbage or sewers systems.

**SECTION XIV. TRANSPORT INFORMATION**

**By Ground :** **Not Regulated**

**By Water and Air :** **Flammable Liquid, n.o.s. (Petroleum Distillates), class 3, UN1993, P.G. III**

**SPECIAL INSTRUCTIONS FOR SHIPPING:** Always supply the Material Safety Data Sheet of the product.

**SECTION XV: REGULATORY INFORMATION**

**DSL:** All constituents of this product are included on the Domestic Substances List (DSL – Canada).

**TSCA:** All constituents of this product are included on the Toxic Substances Control Act Inventory (TSCA – USA).

**SECTION XVI: OTHER INFORMATION****Glossary:**

**ACGIH:** American Conference of Governmental Industrial Hygienists  
**ANSI:** American National Standards Institute  
**ASTM:** American Society for Testing and Materials  
**CAS:** Chemical Abstract Services  
**CFR:** Code of Federal Regulations (United States)  
**CSA:** Canadian Standardisation Association  
**DOT:** Department of Transportation (United States)  
**DSL:** Domestic Substances List (Canada)  
**LC50:** (Lethal concentration<sub>50</sub>) Concentration of a substance in air that causes dead of 50% mortality of a defined animal population  
**LD50:** (Lethal dose<sub>50</sub>) Single dose of a substance that, when administrated by a define route in an animal assay, is expected to cause the death of 50% of a defined animal population.  
**EPA:** Environmental Protection Agency (United States)  
**HMIS:** Hazardous Material Information System  
**IARC:** International Agency for Research on Cancer  
**NFPA:** National Fire Protection Association (United States)  
**NIOSH:** National Institute for Occupational Safety and Health  
**NTP:** National Toxicology Program  
**OSHA:** Occupational Safety & Health Administration (United States)  
**PEL:** Permissible Exposure Limit  
**RCRA:** Resource Conservation and Recovery Act (United States)  
**RTECS:** Registry of Toxic Effects of Chemical Substances  
**TDG:** Transportation of Dangerous Goods  
**TLV:** Threshold Limit Value  
**TWA:** Time-weighted average  
**TSCA:** Toxic Substances Control Act (United States)  
**WHMIS:** Workplace Hazardous Materials Information System (Canada)

**References:** Available upon request.

**Justification of the update:**

- New MSDS.

**This MSDS has been prepared by:** Marie-Claude Fontaine

**For more information:** **SOPREMA Canada** 1-800-567-1492

The Material Safety Data Sheets of SOPREMA Canada are available on Internet at the following site: <http://www.soprema.ca>

This MSDS contains all the information required by ANSI Z-400.1-1998 standard (United States), by regulation 29 CFR Part 1910.1200 of the Hazard Communication Standard of OSHA, and is in accordance with standard DORS/88-66 OF WHMIS Canada.

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