

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND PREPARATION INFORMATION

Manufacturer: Dominion Sure Seal Group of Companies
6175 Danville Road, Mississauga, Ontario
Canada, L5T 2H7
(905)670-5411
U.S.A. 1-800-265-0790

Emergency telephone numbers: Dominion Sure Seal (8 AM TO 4 PM EST)
(905)670-5411
CANUTEC (24 HR)
(613) 996 – 6666

Product Name: Rust Preventive Coating
Product Stock: DOM16CP; DOM16CQ
Product Code: 10041 10040
Synonyms: Not Applicable
Chemical Family: Aromatic Isocyanate Prepolymer
Molecular Formula: Mixture
Product Use: Rust Preventive Coating for metal substrates
Prepared by: Regulatory Department
Preparation Date: June 7, 2014

2. HAZARDOUS INGREDIENTS

Hazardous Ingredients	CAS Number	Wt. %	TLV	LD/50 mg/kg Route, Species	LC/50 Route, Species
p-Chlorobenzo trifluoride (PCBTF)	98-56-6	15 – 20	50 ppm	>6800; 13,000 mg/kg (oral-rat) >2700 mg/kg (dermal-rbt)	33,000;22,000 mg/m3 (rat, 4h) 20,000 mg/m3 (mouse)
Xylene (mixed isomers) *	1330-20-7	8 – 12	100 ppm	5400(oral-rat); 5251; 5627(oral-mouse) 12,180 mg/kg (dermal-rbt-m-xylene)	6350; 6700 ppm (rat, 4h)

Dominion Sure Seal**Rust Preventive Coating, Clear
DOM 16CP, DOM16CQ**

Hazardous Ingredients	CAS Number	Wt. %	TLV	LD/50 mg/kg Route, Species	LC/50 Route, Species
Diphenylmethane-4,4'-diisocyanate (MDI)	101-68-8	5 – 15	0.005 ppm	>5000 mg/kg (oral-rat) >5000 mg/kg(dermal-rbt)	490 mg/m ³ (spray mist – Rat/4H)

* Xylene is known to contain 18 to 20% by weight ethyl benzene, CAS #100-41-4

The other components of this product are not considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations.

2. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Light Amber
Odour	Aromatic
Odour Threshold	Not Available
Boiling Point (Deg.C)	137 (Start)
Melting/Freezing Point (Deg. C)	Not Available
Vapour Density (Air = 1)	> 1
Specific Gravity (Estimate)	1.13 to 1.15 g/cc
Vapour Pressure (mm Hg)	Not Available
Evaporation Rate, n-Butyl Acetate = 1	> 1
pH	Not Applicable
Solubility in Water	Not Miscible

4. FIRE AND EXPLOSION HAZARD

Flammability:	Yes
If Yes, Under Which Conditions:	Excessive heat, sparks and open flame.
Flammability Limits in Air (%):	1 – 7
Flash Point (TCC deg.C)	25 to 27
Autoignition Temperature (Deg. C):	464
Hazardous Combustion Products:	Carbon monoxide, Nitrogen Oxides, MDI vapors, Cyanides.
Sensitivity to Mechanical Impact:	Not available. Not expected to be sensitive to mechanical impact.
Rate of Burning:	Not available.
Explosive Power:	Not available.
Sensitivity to Static Discharge:	Expected to be sensitive to static discharge when vapours in air are between the flammability limits.
Extinguishing Media:	Carbon Dioxide, dry chemicals, foam, water fog. In case of a large fire cool containers with water jet in order to prevent pressure build up, autoignition or explosion.

5. REACTIVITY DATA

Chemical Stability:	Yes, under normal conditions.
Compatibility with Other Substances:	No, with strong oxidizing agents.
Hazardous Products of Decomposition:	Carbon monoxide, Nitrogen oxides, MDI vapors, Cyanides.
Hazardous Polymerisation:	At temperatures above 204 °C MDI can polymerize and decompose which can cause pressure build-up in closed containers. Explosive rupture is possible.

6. TOXICOLOGICAL PROPERTIES

Route of Entry:	
Skin Contact:	Yes
Skin Absorption:	Yes
Eye Contact:	Yes
Inhalation:	Yes
Ingestion:	Yes

Effects of Exposure:

Exposure to spray mist is harmful and is irritating to the eyes, nose, throat and respiratory tract. Effects may be delayed. Symptoms may include coughing, difficult breathing, a feeling of tightness in the chest or asthma attack. For non-spray product application at room temperature, formation of MDI vapors are minimal due to the low vapor pressure. As a result, no hazardous concentrations are likely to form in work areas at room temperature. Heating the material (> 40 °C) may generate MDI vapor concentrations sufficient to cause irritation of the eyes, upper respiratory tract and lungs. Effects are the same as described above for exposure to spray mist. Prolonged exposure to high vapor concentrations of xylene may be harmful and cause adverse effects including labored breathing, dizziness, drowsiness and headache. Skin contact with this product will cause irritation. Symptoms may include reddening, itching, drying, cracking and blistering. Eye contact with this product will cause irritation, including tearing, eye reddening and swelling. If left untreated, corneal damage can occur and the injury is slow to heal, however, damage is usually reversible. The single dose toxicity of MDI is low. Swallowing may cause irritation in the mouth and digestive tract. Symptoms can include sore throat, abdominal pain, nausea and diarrhea.

Carcinogenicity of material:

MDI in the form of respirable aerosols is classified as a carcinogen, category III “Substances which cause concern for man owing to possible carcinogenic effects”. Based on animal tests, ethylbenzene is listed as A3 – confirmed animal carcinogen with unknown relevance to humans.

Reproductive effects:

No information is available and no adverse Reproductive effects are anticipated.

Teratogenicity:

No information is available and no adverse Teratogenic effects are anticipated.

Mutagenicity:

No information is available and no adverse Mutagenic effects are anticipated.

Sensitization of the material:

Prolonged and repeated exposure can cause skin and respiratory sensitization in susceptible individuals.

7. PREVENTIVE MEASURES

Eye Protection:	Tightly fitting safety goggles. Eye wash bottle with pure water. Contact lenses should not be worn when working with this product.
Skin Protection:	Wear impervious gloves and clothing.
Respiratory Protection:	Not required under normal conditions of use, however, if vapour formation exceeds occupational limits wear an approved air-purifying respirator with organic vapour cartridges for mists and vapours. Wear respirator if used in a poorly ventilated area or during spray application.
Engineering Controls:	Exhaust ventilation is recommended if used indoors on continuous basis or during spray application.
Leak/Spill Clean-Up Procedures:	Ventilate enclosed spaces. Collect product for disposal. Do not use combustible materials such as sawdust as an absorbent. Eliminate all sources of ignition. . Decontaminate area with solution: 93% water, 5% concentrated ammonia, 2% detergent. Let stand for at least 15 minutes. Notify applicable government authority if release is reportable or could adversely affect the environment.
Storage Instructions:	Keep away from moisture, heat, sparks, and open flames.

8. FIRST AID MEASURES

Inhalation:	If affected by inhalation of vapour, move to fresh air. If breathing becomes difficult, get medical attention.
Skin Contact:	For skin, wash thoroughly with soap and water. Remove contaminated clothing. Wash contaminated clothing thoroughly before re-use If irritation persists, get medical attention.
Eye Contact:	In case of eye contact, immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention immediately.
Ingestion:	If swallowed, do not induce vomiting. Rinse the mouth. Drink 1-2 glasses of milk to dilute product. Water may be used instead but not as effective. Obtain medical attention immediately.
General Advice:	Not data available.

9. TRANSPORT INFORMATION

Proper Shipping Name:	Coating Solution
UN Number:	1139
Class or Division:	3
Sub Risk:	Not Applicable
Packing Group:	III

NOTE: With an inner packaging < 1.0 L, this component may be renamed “Consumer Commodity” and reclassified as an ORM-D material as per DOT 173.150 (b) & (c).

10. REGULATORY INFORMATION

U.S. Federal Regulations

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 Hazard Category:

Irritant – skin and eyes; Respiratory and skin sensitizer; Flammable; target organ effects reported

Toxic Substances Control Act (TSCA): All components of this product are included on the TSCA inventory.

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA) Hazardous Substances:

Chemical Name	CAS Number	Reportable Quantity (RQ)
Methylene bis(phenylisocyanate)	101-68-8	5000
Xylene (mixed isomers)	1330-20-7	100
Ethyl Benzene	100-41-4	1000

CAA, Section 112 Hazardous Air Pollutants:

Chemical Name	CAS Number	Concentration
Methylene bis(phenylisocyanate)	101-68-8	~10 %
Xylene (mixed isomers)	1330-20-7	7 - 9 %
Ethyl Benzene	100-41-4	1.5 – 2.5 %

**Superfund Amendments and Reauthorization Act (SARA) Title III Information:
SARA (EPCRA) Section 311/312 (40 CFR 370) Hazard Categories:**

Immediate Hazard: Yes
Delayed Hazard: Yes
Fire Hazard: Yes
Pressure Hazard: No
Reactivity Hazard: No

This product contains the following extremely hazardous substance(s) subject to the reporting requirements of SARA (EPCRA) Section 302:

Chemical Name	CAS Number	Concentration
None	NA	NA

This product contains the following toxic chemical(s) subject to reporting requirements of SARA (EPCRA) Section 313 (40 CFR 372)

Chemical Name	CAS Number	Concentration
Methylene bis(phenylisocyanate)	101-68-8	~ 10 %
Xylene (mixed isomers)	1330-20-7	7 - 9 %
Ethyl Benzene	100-41-4	1.5 – 2.5 %

State Regulations

California: This product contains the following chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm:

Component	CAS Number	Maximum %
Ethyl Benzene	100-41-4	1.5 – 2.5 %

International Regulations

Canadian Workplace Hazardous Materials Information System (WHMIS):

B2, D1B, D2A, D2B

Canadian Environmental Protection Act (DSL): All of the components of this product are included on the Canadian Domestic Substances list (DSL).

European Inventory of Existing Chemicals (EINECS): All of the components of this product are included on EINECS.

11. OTHER INFORMATION

VOC Compliance Statement:

Part A VOC Content – Less Exempts: 135 g/l (1.13 lb/gal)
Part A VOC Content – Total Material: 114 g/l (0.95 lb/gal)
Part A VOC Content – % by weight: 10 %
Part A Density: 1.13 to 1.15 g/ml
Part A Volatiles Content: 28.5 % by weight
Part A Exempt Content: 18.5 % by weight (15.7 % by volume)

Regulation: Automotive Refinishing Products Regulations
Coating Category: Primer (applied to metal substrates)
Product VOC content meets the 250 g/l (2.1 lb/gal) limit set for Primer Surfacer (Canada) and for Primers (California).

Regulation: Architectural Coating Regulations – Canada and USA
Coating Category: Rust Preventive Coating (applied to metal substrates)
Product VOC content meets the 400 g/l (3.33 lb/gal) limit set for Rust Preventive Coatings.
Product is subject to the small container exemption (contents < 1 qt) under SCAQMD Rule 1113.

Regulation: Architectural Coating Regulations – Canada and USA
Coating Category: Any Other Primer, Sealer or Undercoater (applied to concrete or wood substrates)
Product VOC content meets the 200 g/l (1.67 lb/gal) limit set for Primers, Sealers and Undercoaters. Product is subject to the small container exemption (contents < 1 qt) under SCAQMD Rule 1113.

Canada and USA compliant.
Do not thin with solvents.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. **This MSDS is valid for three years.**

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