SAFETY DATA SHEET

Prepared according to USA OSHA Hazcom 2024 / Canada WHMIS 2023

Date issued : 12/18/2017
SDS number : XSM2002 Part B SureMix Urethane Medium Adhesive_EN
Date revised : 02/26/2025
Revision number : 2

XSM2002 Part B SUREMIX Urethane Medium Adhesive

1. Identification

Product identifier: XSM2002 Part B SUREMIX Urethane Medium Adhesive
Product description: Part B Black adhesive / sealant, 103.5 ml / 3.5 fl oz US, Work Time: 5 - 10 min
Relevant identified uses of the substance or mixture and uses advised against: Urethane adhesive / sealant
Other means of identification - product Stock / Code: XSM2002 / 2002 (Kit: 207 ml / 7.0 fl oz US)
Chemical family: Polyether Polyol
Molecular formula: Mixture

Manufacturer / Supplier

Dominion Sure Seal Ltd.
6175 Danville Road, Mississauga
Ontario, Canada L5T 2H7
Fax: 905-670-5174
www.dominionsureseal.com
Customer Service: 905-670-5411

Emergency telephone number

Telephone number to contact in the event of an emergency (9 am to 5 pm from M to F):
(905) 670-5411

2. Hazard identification

Classification of the substance or mixture

The classification and label elements stated below were prepared in accordance with the USA OSHA Hazard Communication Standard (29 CFR 1910.1200; Hazcom 2024) and the Canadian WHMIS regulations (Hazardous Products Regulations; WHMIS 2023). This information may be different from the actual product label information for labels that are regulated by other agencies.

Health hazards:

Eye Irritation, Category 2A
Skin Sensitization, Category 1
Specific Target Organ Toxicity (Repeated exposure), Category 2
Carcinogenicity, Category 2

Physical hazards:

Not classified

Label elements

Hazardous components for labelling:
diethyltoluenediamine, dimethylthiotoluenediamine and carbon black

Exclamation mark

Health hazard

Signal word: WARNING

Hazard statement(s)

H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.
H373: May cause damage to pancreas and liver through prolonged or repeated exposure.
H351: Suspected of causing cancer.

Precautionary statement(s)

Prevention:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P261: Avoid breathing vapours.
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves and eye protection.
P272: Contaminated work clothing should not be allowed out of the workplace.

Response:

P314: Get medical advice/attention if you feel unwell.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.

Storage:

P405: Store locked up.

Disposal:

P501: Dispose of contents/container in accordance with applicable local, regional and/or national regulations.

Hazards not otherwise classified: No data available.

Emergency overview

Immediate concerns: Causes serious eye irritation. May cause sensitization by skin contact. Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Prolonged or repeated exposure may cause pancreas and liver damage. Suspected of causing cancer.

Comments: See sections 9 and 10 for more detailed information on physicochemical effects.
See section 11 for more detailed information on health effects.
See sections 12 for more detailed information on environmental effects.

The actual container label may not include the above label elements. The labeling shown above applies to products used solely for industrial / professional use.
Consumer products should be labeled in accordance with the Canadian Consumer Chemicals and Containers Regulations and US Consumer Product Safety Commission regulations. Consumer product labeling takes precedence over Canadian WHMIS 2023 and OSHA Hazcom 2024 Hazard Communication labeling.

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
diethyltoluenediamine	8 - 12	68479-98-1
dimethylthiotoluenediamine	3 - 5	106264-79-3
carbon black	0.2 - 0.8	1333-86-4

Comments: The actual concentration is withheld as a trade secret.
There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the product and hence require reporting in this section.
dimethylthiotoluenediamine is a complex substance i.e. a complex mixture of known or unknown composition. It is

composed of a mixture of the following two major isomers:

1,3-benzenediamine, 4-methyl-2,6-bis(methylthio)- CAS# 102093-69-5
1,3-benzenediamine, 2-methyl-4,6-bis(methylthio)- CAS# 104983-85-9

4. First-aid measures

Eye: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention, if irritation persists.

Skin: Wash with soap and water. Get medical attention if irritation develops or persists. Remove contaminated clothing and wash before reuse.

Ingestion: Do not induce vomiting. Rinse mouth with water. Give 1 to 2 glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use. If you experience eye watering, headaches or dizziness, increase fresh air or leave the area.

Most important symptoms and effects, both acute and delayed

Eye: Contact causes serious eye irritation. Symptoms may include pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Skin: Substance does not generally irritate and is only mildly irritating to the skin. Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

Ingestion: Substance may be harmful if swallowed. May cause irritation. Symptoms of ingestion may include abdominal pain, nausea, vomiting and diarrhea.

Inhalation: At room temperature, exposure to vapor is minimal due to low volatility.

Additional information: No data available.

5. Fire-fighting measures

General hazard: Will burn if involved in a fire.

Suitable extinguishing media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material. Use an extinguishing agent suitable for the surrounding fire.

Hazardous combustion products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Fire fighting procedures: Containers can build up pressure if exposed to heat (fire).

Fire fighting equipment: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

Sensitivity to static discharge: Product is not sensitive to static discharge.

Sensitivity to mechanical impact: Product is not sensitive to mechanical impact.

6. Accidental release measures

Small spill: Ensure adequate ventilation. Cover spill area with suitable absorbent material (e.g., sand, earth, sawdust, vermiculite, Oil-Dri, Kitty Litter, etc.). Sweep up material being careful not to raise dust. Place in an appropriate disposal container and seal tightly. Avoid contact with eyes, skin, and clothing.

Environmental precautions

Water spill: Do not flush to sewer.

Land spill: Avoid runoff into storm sewers and ditches which lead to waterways.

Special protective equipment: Clean up spills immediately, observing precautions in Protective Equipment section 8.

7. Handling and storage

General procedures: Ensure thorough ventilation of stores and work areas.

Precautions for safe handling: Do not use in the presence of open flame or spark. Wear recommended personal protective equipment. Avoid contact with eyes, skin, and clothing. After handling, always wash hands thoroughly with soap and water.

Conditions for safe storage: Store away from heat, sparks, open flames, strong oxidizing agents and direct sunlight. Protect from physical damage. Keep containers tightly closed, when not in use. Store in a cool place.

8. Exposure controls/personal protection

Exposure controls

Control parameters				
	Occupational exposure limit values			
Chemical name	**Type**		**ppm**	**mg/m³**
diethyltoluenediamine	**USA OEL**	**-**	-- [1]	-- [1]
dimethylthiotoluenediamine	**USA OEL**	**-**	-- [1]	-- [1]
carbon black	**OSHA PEL**	**TWA**	--	3.5
	ACGIH TLV	**TWA**	-- [2]	3.5 [2]
	NIOSH REL	**TWA**	--	3.5

Footnotes:
1. This material does not have established exposure limits in the USA under OSHA, NIOSH, ACGIH.
2. Inhalable particulate matter.

Appropriate engineering controls: Good general ventilation should be sufficient to control airborne levels.

Individual protection measures, such as personal protective equipment

Eye / face protection: Wear safety glasses with side shields (or goggles). Contact lenses should not be worn when working with this product. Eye wash fountains should be readily available to areas of use and handling.

Skin: Wear chemical resistant gloves.

Respiratory protection: Generally not required. Wear respiratory protection if ventilation is inadequate.

Skin protection - other: Wear protective clothing as necessary to prevent contact.

Occupational hygiene practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse.

9. Physical and chemical properties

Physical State: Liquid

Odour: Mild, amine

Odour threshold: No data available.

Appearance: Thixotropic liquid

Colour: Black

pH: No data available.

% Volatiles: < 2% w/w (<20 g/l), as supplied

Flash point: > 100°C (212°F) Closed Cup

Explosion limit / flammability limit notes: No data available.

Auto-ignition temperature: No data available.

Vapour pressure: No data available.

Relative vapour density: No data available.

Initial boiling point and boiling range: No data available.

Freezing point: No data available.

Melting point: No data available.

Decomposition temperature: No data available.

Solubility: Slightly soluble

Partition coefficient n-octanol/water (logarithmic value): No data available.

Evaporation rate (n-butyl acetate = 1): No data available.

Density: 1.025-1.035 g/ml at 20°C

Particle characteristics: No data available.

Relative density: No data available.

Viscosity (kinematic or dynamic): 3000 to 15000 cps at 23°C (73°F)

VOC content: < 3.5 g/l (< 0.3% w/w), as applied

Flammability: Flammable Liquids

Comments:

VOC Compliance Statement

VOC Content:	Less Exempts: < 3.5 g/l (0.03 lb/gal), Part A + B as applied Total Material: < 3.5 g/l (0.03 lb/gal), Part A + B as applied
Density:	1.10 to 1.12 g/ml, Part A + B as applied
Total Volatiles:	< 0.3% w/w, Part A + B as applied
Exempt Content:	0 % w/w; 0 % v/v
VOC Regulation:	SCAQMD Rule 1168 -Adhesives & Sealants - California
Coating Category:	Adhesive, All Other Adhesives

The product VOC content meets the 250 g/l limit for Adhesive, All Other Adhesives.
The product also meets the small container exemption in the various Adhesives and Sealants district rules - packaged in ≤ 475 ml (16 fl oz) cartridges.
California compliant.

VOC Regulation:	CARB, OTC – Consumer Product Regulations Canada – Certain Products Regulations
Coating Category:	General Purpose Adhesive

This product VOC content meets the 10% w/w limit for the General Purpose Adhesive category under the above Regulations.
USA 50 State compliant & Canada compliant.

10. Stability and reactivity

Reactivity: No

Dangerous polymerization: Not expected to occur.

Chemical stability: Stable.

Conditions to avoid: Keep away from flames and incompatible materials. Keep away from flames and any object that sparks.

Possibility of hazardous reactions: No data available.

Hazardous decomposition products: Carbon Monoxide and other toxic vapors.

Incompatible materials: Oxidizing materials.

11. Toxicological information

Acute Toxicity

Chemical name	LD_{50} (oral) mg/kg(rat)	LD_{50} (dermal) mg/kg(rabbit)	LC_{50} (inhalation) mg/l
diethyltoluenediamine	472 542	> 1000	>2.45(rat;1h)
dimethylthiotoluenediamine	1515	> 2000	No data available.
carbon black	> 15,400	> 3000	Not Applicable

Acute dermal toxicity LD_{50}: Based on available ingredient data, the classification criteria for Acute Dermal Toxicity are not met for this mixture. The calculated ATE is >2000 mg/kg. Slightly toxic. May be harmful in contact with skin.

Acute oral toxicity LD_{50}: Based on available ingredient data, the classification criteria for Acute Oral Toxicity are not met for this mixture. The calculated ATE is >2000 mg/kg. Slightly toxic. May be harmful if swallowed.

Acute inhalation toxicity LC_{50}: Based on available ingredient data, the classification criteria for Acute Toxicity - inhalation are not met for this mixture. At room temperature, exposure to vapor is minimal due to low volatility. This product is not sprayed during application; no spray mist can be generated so this route of exposure does not apply.

Notes: No additional toxicology information is available for this product itself.
(See Component Toxicity Information).
Information on likely routes of exposure:
Eye contact. Skin contact. Skin absorption. Ingestion.

Skin corrosion / irritation: Based on available data, the classification criteria for skin irritation are not met for this mixture. Substance does not generally irritate and is only mildly irritating to the skin.

Serious eye damage / irritation: Contains: diethyltoluenediamine. Contact causes serious eye irritation. The mixture is classified as: Eye Irritant, category 2, based on summation of ingredient data (>10% ingredients classified as eye irritant, category 2). Symptoms may include pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Respiratory or skin sensitization: Contains: dimethylthiotoluenediamine. May cause sensitization by skin contact. The mixture is classified as: Skin Sensitizer, category 1 based on ingredient data (≥ 0.1% ingredients classified as a skin sensitizer, category 1 or sub-category 1A or ≥ 1.0% ingredients classified as a skin sensitizer, sub-category 1B). Prolonged contact with this product can cause reddening, swelling, rash scaling or blistering. In those who have developed skin sensitization, these symptoms can develop as a result of contact with very small amount of the liquid material.
Based on available data, the classification criteria for respiratory sensitization are not met for this mixture (< 0.1% ingredients classified as a respiratory sensitizer, category 1 or sub-category 1A and < 1.0% ingredients classified as a respiratory sensitizer, sub-category 1B).

Germ cell mutagenicity: Based on available data, the classification criteria for Germ Cell Mutagenicity are not met for this mixture (< 0.1% ingredients classified as Germ Cell Mutagen, category 1A or 1B and < 1.0% ingredients classified as Germ Cell Mutagen, category 2).

Carcinogenicity

Chemical name	NTP	IARC	OSHA	Status - other
diethyltoluenediamine	--	--	--	--
dimethylthiotoluenediamine	--	--	--	--
carbon black	--	2B	--	A3 (ACGIH)

Notes: carbon black is listed as Group 2B (possibly carcinogenic to humans) by IARC. The mixture is classified as: Carcinogenicity, category 2 based on ingredient data using the applicable cut-off/concentration limits (≥ 0.1%

ingredients classified as a Carcinogen, category 2).

Reproductive toxicity: Based on available data, the classification criteria for Reproductive Toxicity are not met for this mixture (< 0.1% ingredients classified as Reproductive Toxicity, category 1 or 2).

Specific Target Organ Toxicity - single exposure: Based on available data, the classification criteria for Specific Target Organ Toxicity - Single Exposure are not met for this mixture (< 1.0% ingredients classified as Specific Target Organ Toxicity - Single Exposure, category 1 or 2 and < 20% summation of all ingredients classified as Specific Target Organ Toxicity - Single Exposure, category 3).

Specific Target Organ Toxicity - repeated exposure: Contains: diethyltoluenediamine. The mixture is classified as: Specific Target Organ Toxicity - Repeated Exposure, category 2, based on ingredient data using the applicable cut-off/concentration limits (≥ 1.0% ingredients classified as Specific Target Organ Toxicity - Repeated Exposure, category 2). Prolonged or repeated exposure may cause pancreas and liver damage.

Aspiration hazard: Based on available data, the classification criteria for Aspiration Hazard are not met for this mixture (< 10% ingredients classified as an Aspiration Hazard, category 1 and/or mixture viscosity > 20.5 mm^2/s at 40 °C).

12. Ecological information

Ecotoxicological information: No data available.

Aquatic toxicity, both acute and chronic: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Other adverse effects: No data available.

Mobility in soil: No data available.

13. Disposal considerations

Disposal methods: Comply with applicable local, state or international regulations concerning solid or hazardous waste disposal and/or container disposal. Do not discharge substance/product into sewer system.

Product disposal: Empty containers retain product residue; observe all precautions for product. Decontaminate containers prior to disposal.

14. Transport information

USA Department of Transport Regulations (DOT)

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Technical Name: diethyltoluenediamine and dimethylthiotoluenediamine

Transport hazard class(es): 9

UN number: 3082

Packing group, if applicable: III

Environmental hazards - marine pollutant: Yes

DOT other shipping information:
These Regulations do not apply to the handling, offering for transport or transporting of less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., on a road vehicle or a railway vehicle.

IMDG - sea

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Technical Name: diethyltoluenediamine and dimethylthiotoluenediamine

UN number: 3082

Transport hazard class(es): 9

Packing group, if applicable: III

Environmental hazards - marine pollutant: Yes

Hazard label: None

Notes: With an inner packaging < 5.0 L, this product may be shipped as a Limited Quantity.

Canadian Transport of Dangerouse Goods Regulations (TDG)

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Technical Name: diethyltoluenediamine and dimethylthiotoluenediamine

UN number: 3082

Transport hazard class(es): 9

Packing group, if applicable: III

Hazard label: None

TDG other shipping information:
These Regulations do not apply to the handling, offering for transport or transporting of less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., on a road vehicle or a railway vehicle.

15. Regulatory information

UNITED STATES

SARA Section 311/312 Hazard Categories

311/312 Health hazards: Carcinogenicity, Eye Irritation, Skin Sensitization, Target Organ Toxicity (Repeated exposure)

311/312 Physical hazards: None

EPCRA Section 313 Toxic Chemicals:
This product does not contain any listed toxic chemicals that exceed the threshold reporting levels established by SARA Title III, Section 313.

EPCRA Section 302 Extremely Hazardous Substances

EPCRA Status:
This product contains no listed extremely hazardous substances that are subject to the reporting requirements of SARA Title III, Section 302.

CERCLA Hazardous Substances and Reportable Quantities (RQ)

CERCLA Status:
This product contains no CERCLA listed hazardous substances.

TSCA (The Toxic Substances Control Act)

TSCA Status:
All components are included or are otherwise exempt from inclusion on this inventory.

CAA 112(b) Hazardous Air Pollutants

CAA 112(r) List of Substances for Accidental Release Prevention:

This product contains no chemicals subject to CAA 112(b) or CAA 112(r).

California Proposition 65:

⚠ **WARNING**: This product can expose you to chemicals including the chemical(s) listed below, which is [are] known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Chemical name	% w/w	Listed
carbon black	0.2 - 0.8	• Cancer

USA OSHA Hazard Communication Standard (29CFR 1910.1200):
OSHA Status: Hazardous Product (See Section 2 for details).
This product has been classified in accordance with the hazard criteria of the USA OSHA Hazard Communication Standard (29CFR 1910.1200) and the Safety Data Sheet contains all the information required by the OSHA Hazard Communication Standard (HazCom 2024).

CANADA

WHMIS Hazard Symbol and Classification

See Section 2 for details.

WHMIS Regulatory Status:
This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2023).

WHMIS Classification:
WHMIS 2023 (Canada) Status: Hazardous Product (See Section 2 for details).

CEPA - National Pollutant Release Inventory (NPRI):
This product contains no chemicals subject to CEPA - NPRI.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL):
All components are included or are otherwise exempt from inclusion on this inventory.

Comments VOC Content -- See section 9.

16. Other information

Reason for issue: The Safety Data Sheet was updated.

Approved by: Jim Gordon **Title:** R&D Chemist

Prepared by : Regulatory Compliance

Date revised: 02/26/2025

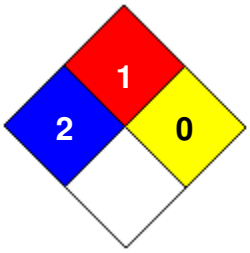
Information contact: 905-670-5411

Revision summary: This SDS replaces the 02/26/2025 SDS.

HMIS RATING

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		B

NFPA CODES



NFPA 30 / 30B Storage Classification: Combustible Liquid IIIB

Manufacturer supplemental notes: None

Data sources: Not Available

Additional SDS Information: N/AV Not Available
N/AP Not Applicable
ND Not yet determined
ACGIH American Conference of Governmental Industrial Hygienists

CAA The Clean Air Act
CCCR The Consumer Chemicals and Containers Regulations
CEPA The Canadian Environmental Protection Act
CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
EPCRA The Emergency Planning and Community Right-To-Know Act
IARC International Agency for Research on Cancer
MSHA Mine Safety and Health Administration
NIOSH National Institute for Occupational Safety and Health
NTP National Toxicology Program
OSHA The Occupational Safety and Health Administration
SARA The Superfund Amendments and Reauthorization Act
WHMIS Workplace Hazardous Materials Information System

General statements: No data available.

Comments: None

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