

Material Safety Data Sheet



1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Page: 1

24-Hour Emergency Phone Number: 989-636-4400

Product: SARAN* 520 VAPOR RETARDER TAPE

Product Code: 69980

Effective Date: 01/13/04 Date Printed: 01/14/04 MSD: 006607

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

Copolymer of vinylidene chloride and vinyl chloride	CAS# 009011-06-7	55-85%
Proprietary ingredients		15-45%
Titanium dioxide	CAS# 013463-67-7	<5%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

* White film. Odorless. Toxic fumes may be released in fire *
* situations. *

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: Eye contact is unlikely due to the physical state.

SKIN: Brief contact is essentially non-irritating to skin. No adverse effects anticipated by skin absorption. Material may stick to skin causing irritation upon removal.

INGESTION: Swallowing is unlikely because of the physical state.

INHALATION: Vapors are unlikely due physical properties.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Based on available data, repeated exposures are not anticipated to cause significant adverse effects. Additives are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency.

(Continued on page 2 , over)

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CANCER INFORMATION: No relevant information found.

TERATOLOGY (BIRTH DEFECTS): No relevant information found.

REPRODUCTIVE EFFECTS: No relevant information found.

4. FIRST AID

EYES: No emergency medical treatment necessary.

SKIN: Wash skin with plenty of water.

INGESTION: No emergency medical treatment necessary.

INHALATION: Move person to fresh air; if effects occur, consult a physician.

NOTE TO PHYSICIAN: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: Not applicable

METHOD USED: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

FLAMMABILITY LIMITS

LFL: Not applicable

UFL: Not applicable

HAZARDOUS COMBUSTION PRODUCTS: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: hydrogen chloride, carbon monoxide, carbon dioxide.

OTHER FLAMMABILITY INFORMATION: Dense smoke is produced when product burns.

EXTINGUISHING MEDIA: Water fog or fine spray, dry chemical fire extinguishers, carbon dioxide fire extinguishers, foam.

FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area

(Continued on page 3)

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and deny unnecessary entry. If material is molten, do not apply direct water stream. Use fine water spray or foam. Soak thoroughly with water to cool and prevent reignition. Cool surroundings with water to localize fire zone.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

PROTECT PEOPLE: Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls/Personal Protection.

PROTECT THE ENVIRONMENT: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

CLEANUP: Sweep up. See Section 13, Disposal Considerations for additional information.

7. HANDLING AND STORAGE

HANDLING: See Section 8, Exposure Controls/Personal Protection.

STORAGE: Store in a dry place. Store away from direct sunlight. Keep away from high temperatures and hot pipes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: Use safety glasses.

SKIN PROTECTION: Wear clean, long-sleeved, body-covering clothing. Use gloves chemically resistant to this material.

RESPIRATORY PROTECTION: No respiratory protection should be

(Continued on page 4 , over)

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needed.

EXPOSURE GUIDELINE(S): Although some of the additives used in this product may have exposure guidelines, these additives are encapsulated in the product and no exposure would be expected under normal handling conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: White film
ODOR: Odorless
BOILING POINT: Not applicable
VAPOR PRESS: Not applicable
VAPOR DENSITY: Not applicable
SOLUBILITY IN WATER: Insoluble
SPECIFIC GRAVITY: 1.64

10. STABILITY AND REACTIVITY

STABILITY: Thermally stable at typical use temperatures.

CONDITIONS TO AVOID: Avoid temperatures above 160 C (320 F).
Exposure to elevated temperatures can cause product to decompose.

INCOMPATIBILITY WITH OTHER MATERIALS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: aldehydes, hydrocarbons, hydrogen chloride, organic acids.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

MUTAGENICITY: No relevant information found.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

ENVIRONMENTAL FATE

(Continued on page 5)

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Product: SARAN* 520 VAPOR RETARDER TAPE
Product Code: 69980

Effective Date: 01/13/04 Date Printed: 01/14/04 MSD: 006607

MOVEMENT & PARTITIONING: No bioconcentration is expected because of the relatively high molecular weight (MW>1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment.

DEGRADATION AND PERSISTENCE: This water insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

ECOTOXICITY: Not expected to be acutely toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. THE DOW CHEMICAL COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients).

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destruction device, and landfill.

For additional information, refer to Stability & Reactivity Information, MSDS Section 10.

As a service to its customers, Dow can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastics, and that manage used drums. Telephone Dow's Customers Information Center at 800-258-2436 or 989-832-1556 for further details.

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (D.O.T.): This product is not regulated by D.O.T. when shipped domestically by land.

(Continued on page 6 , over)

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Product: SARAN* 520 VAPOR RETARDER TAPE
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Effective Date: 01/13/04 Date Printed: 01/14/04 MSD: 006607

 CANADIAN TDG INFORMATION: This product is not regulated by TDG
 when shipped domestically by land.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected
 regulations represented)

NOTICE: The information herein is presented in good faith and
 believed to be accurate as of the effective date shown above. However,
 no warranty, express or implied is given. Regulatory requirements
 are subject to change and may differ from one location to another;
 it is the buyer's responsibility to ensure that its activities comply
 with federal, state or provincial, and local laws. The following
 specific information is made for the purpose of complying with
 numerous federal, state or provincial, and local laws and regulations.
 See other sections for health and safety information.

U.S. REGULATIONS

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SARA 313 INFORMATION: To the best of our knowledge, this product
 contains no chemical subject to SARA Title III Section 313 supplier
 notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the
 EPA "Hazard Categories" promulgated under Sections 311 and 312 of the
 Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and
 is considered, under applicable definitions, to meet the following
 categories:

Not to have met any hazard category

CALIFORNIA PROPOSITION 65: The following statement is made in order to
 comply with the California Safe Drinking Water and Toxic Enforcement Act
 of 1986:

WARNING:

This product contains a chemical(s) known to the State of California to
 cause reproductive harm.

TOLUENE	CAS# 000108-88-3	0.01 wt%
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TOXIC SUBSTANCES CONTROL ACT (TSCA):

Product: SARAN* 520 VAPOR RETARDER TAPE
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Effective Date: 01/13/04 Date Printed: 01/14/04 MSD: 006607

REGULATORY INFORMATION (CONTINUED)

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
TITANIUM DIOXIDE	013463-67-7	PA1

PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).

CANADIAN REGULATIONS
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WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

This product is not a "Controlled Product" under WHMIS.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

All substances in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

16. OTHER INFORMATION

MSDS STATUS: Revised Section 15, (CProp65).

For further information, contact the Plastics Customer Information Group at 1-866-583-BLUE(2583).

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The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The Dow Chemical Company For Further Information.