

3M Canada Company
 1840 Oxford Street East, Post Office Box 5757
 London, Ontario N6A 4T1
 Medical Emergency Telephone: (519) 451-2500, Ext. 2222
 Transportation Emergency Telephone (CANUTEC): (613) 996-6666

=====

Material Safety Data Sheet

=====

Document id : 22-4399-6 Issue date : 2015/07/29
 Version : 6.00 Supersedes date : 2015/06/12

Copyright, 1997, 3M Canada Company. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Prepared by: Corporate Regulatory Services, 3M Canada Company
 Telephone: (800) 364-3577, Fax: (800) 603-7758, Web Site: www.3M.ca

1 Chemical Product and Company Identification

Tradename:

3M(TM) SCOTCH-WELD(TM)THREADLOCKER TL22 (FORMERLY SOLD AS RITE-LOK™
 THREADLOCKER TL22-1, TL22-10, TL22-50, TL22-250, &
 TL22-1L)(INACTIVE)

Product ID:

62-3493-1055-7 CS-0406-7281-1 CS-0406-7292-8 62-3493-3950-7
 62-3493-5050-4 62-3493-8330-7 62-3493-1050-8 62-3493-0150-7

Intended Use of Product:

Structural adhesive

Division:

AD - Industrial Adhesives and Tapes Division

2 Hazards Identification

Critical Hazards:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

Prolonged or repeated exposure may cause: Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

May be absorbed through skin and cause target organ effects.

May be absorbed following inhalation and cause target organ effects.

3M(TM) SCOTCH-WELD(TM)THREADLOCKER TL22 (FORMERLY Page 2 of 11
 SOLD AS RITE-LOK™ THREADLOCKER TL22-1, TL22-10,
 TL22-50, TL22-250, & TL22-1L)(INACTIVE)

 May be absorbed following ingestion and cause target organ effects.
 WARNING: Contains a chemical which can cause cancer. Titanium
 Dioxide (CAS 13463-67-7) (IARC human carcinogen 2B).
 METHYL ALCOHOL (67-56-1): can cause birth defects or other
 reproductive harm.
 Very toxic by inhalation.
 Oxidizing material
 See Sections 7 and 11 for further information.

 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
Polyglycol Dimethacrylate	25852-47-5	30 - 60
TETRAETHYLENE GLYCOL DI-2-ETHYLHEXOATE	18268-70-7	15 - 40
Amorphous Treated Silica	68909-20-6	5 - 10
CUMENE HYDROPEROXIDE	80-15-9	1 - 5
SACCHARIN	81-07-2	1 - 5
METHYL ALCOHOL	67-56-1	0.5 - 1.5
CUMENE	98-82-8	0.1 - 1.0
TITANIUM DIOXIDE	13463-67-7	0.1 - 1.0
2-HYDROXYETHYL METHACRYLATE	868-77-9	0.1 - 1.0
OPTICAL BRIGHTENER	Trade Secret	0.05 - 0.15

NOTE:

Optical Brightener is a Trade Secret material which is not controlled according to WHMIS criteria.

Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

 4 First Aid Measures

Instructions for Eye Contact:

Immediately flush eyes with large amounts of water for at least 30 minutes. Get immediate medical attention.

Instructions for Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water for at least 20 minutes or until chemical is removed. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Instructions for Inhalation:

Remove person to fresh air. If signs/symptoms develop, get medical attention.

Instructions for Ingestion:

3M(TM) SCOTCH-WELD(TM)THREADLOCKER TL22 (FORMERLY Page 3 of 11
 SOLD AS RITE-LOK™ THREADLOCKER TL22-1, TL22-10,

TL22-50, TL22-250, & TL22-1L)(INACTIVE)

Do not induce vomiting unless instructed to do so by medical personnel. Get medical attention.

5 Fire Fighting Measures

Flash point: ≥ 100.0 C TCC

Lower Explosive Limit (%): Not Available

Upper Explosive Limit (%): Not Available

Autoignition temperature: Not Available

Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Exposure Hazards during Fire:

No unusual fire or explosion hazards are anticipated.

Combustion Products from Fire:

Formaldehyde - During Combustion;

Carbon monoxide - During Combustion;

Carbon dioxide - During Combustion;

Oxides of Nitrogen - During Combustion;

Oxides of Sulfur - During Combustion;

Toxic Vapour, Gas, Particulate - During Combustion;

Unusual Fire and Explosion Hazards

None known.

Fire Fighting Procedures:

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Water may be used to blanket the fire. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

NFPA: Health 2

NFPA: Fire 1

NFPA: Reactivity 1

NFPA: Unusual Reaction Hazard

none

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

3M(TM) SCOTCH-WELD(TM)THREADLOCKER TL22 (FORMERLY SOLD AS RITE-LOK™ THREADLOCKER TL22-1, TL22-10, TL22-50, TL22-250, & TL22-1L)(INACTIVE)

Page 4 of 11

6 Accidental Release Measures

Personal Precautions:

Evacuate unprotected and untrained personnel from hazard area. The

spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode.

Environmental Procedures

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Methods for cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with detergent and water.

Spill Response:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill.

7 Handling and Storage

Storage Requirements:

Keep container closed when not in use.

Incompatible Materials:

Store away from heat;
Store out of direct sunlight.
Store away from oxidizing agents.

Ventilation:

Keep container in well-ventilated area.

Use Instructions:

For industrial or professional use only. Keep container tightly closed. Avoid contact with oxidizing agents.

3M(TM) SCOTCH-WELD(TM)THREADLOCKER TL22 (FORMERLY Page 5 of 11
SOLD AS RITE-LOK™ THREADLOCKER TL22-1, TL22-10,
TL22-50, TL22-250, & TL22-1L)(INACTIVE)

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact.
The following should be worn alone or in combination, as appropriate, to prevent eye contact:
Safety glasses with side shields
Indirect vented goggles;

Hand Protection:

Wear appropriate gloves when handling this material.

The following glove material(s) are recommended:

butyl rubber;
polyethylene/ethylene vinyl alcohol;
polyvinyl alcohol;
fluoroelastomer

Skin Protection:

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Respiratory Protection:

Avoid breathing of vapours, mists or spray.

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations: Half facepiece or fullface air-purifying respirator with organic vapour cartridges and N95 particulate prefilters;

Ingestion (Prevention):

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

Recommended Ventilation:

Use with appropriate local exhaust ventilation.

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapour, or spray. If ventilation is not adequate, use respiratory protection equipment.

Ingredient Exposure Data

Polyglycol Dimethacrylate (25852-47-5)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

No data available.

3M(TM) SCOTCH-WELD(TM)THREADLOCKER TL22 (FORMERLY Page 6 of 11
SOLD AS RITE-LOK™ THREADLOCKER TL22-1, TL22-10,
TL22-50, TL22-250, & TL22-1L)(INACTIVE)

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

No data available.

TETRAETHYLENE GLYCOL DI-2-ETHYLHEXOATE (18268-70-7)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

No data available.

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

No data available.

Amorphous Treated Silica (68909-20-6)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

No data available.

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

No data available.

CUMENE HYDROPEROXIDE (80-15-9)

LD50 (rat, oral) 382 mg/kg
 LD50 (dermal, rabbit) 134 mg/kg
 LC50 (rat, inhalation/4 hours) 220 ppm

Exposure Limits

AIHA: TWA 1 ppm (skin contact contributes to exposure)
 AIHA: TWA 6 mg/m3 (skin contact contributes to exposure)

SACCHARIN (81-07-2)

LD50 (rat, oral) No data available.
 LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

METHYL ALCOHOL (67-56-1)

LD50 (rat, oral) 5600 mg/kg
 LD50 (dermal, rabbit) 15800 mg/kg
 LC50 (rat, inhalation/4 hours) 64000 ppm

Exposure Limits

ACGIH-TWA: 200 ppm (skin contact contributes to exposure)
 ACGIH: STEL 250 ppm (skin contact contributes to exposure)

CUMENE (98-82-8)

LD50 (rat, oral) 1400 mg/kg
 LC50 (rat, inhalation/4 hours) 8000 ppm

Exposure Limits

ACGIH-TWA: 50 ppm ACGIH: TWA

TITANIUM DIOXIDE (13463-67-7)

LD50 (rat, oral) > 24000 mg/kg
 LC50 (rat, inhalation/4 hours) > 6820 mg/m3

Exposure Limits

ACGIH: TWA 10 mg/m3
 CMRG: TWA 5 mg/m3 (as respirable dust)

3M(TM) SCOTCH-WELD(TM)THREADLOCKER TL22 (FORMERLY Page 7 of 11
 SOLD AS RITE-LOK™ THREADLOCKER TL22-1, TL22-10,
 TL22-50, TL22-250, & TL22-1L)(INACTIVE)

2-HYDROXYETHYL METHACRYLATE (868-77-9)

Specific Ingredient Data

No data available.

LD50 (rat, oral) 5050 mg/m3
 LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

OPTICAL BRIGHTENER (Trade Secret)

LD50 (rat, oral) No data available.
 LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

9 Physical and Chemical Properties

Physical form,Color,Odour: Liquid; Thixotropic; purple;
 mild odour;
 Odour Threshold: No data available.
 pH: Not applicable

Boiling point/boiling range:	>= 204.4 C
Melting point/melting range:	Not applicable
Vapour pressure:	0.01 mmHg at 20 C
Water Solubility:	Negligible
Partition coefficient (K o/w):	Not Available
Specific gravity:	1.1 - 1.15 Water=1 at 20 C
Vapour density:	1.01 Air=1
Volatile organic compounds:	<= 30 gms/liter EPA24T (EU VOC content)
Evaporation rate:	Negligible
Viscosity:	1200 - 6000 centipoise Brookfield @ 20 C
Percent Volatile:	<= 3 % by weight ACS

10 Stability and Reactivity

Conditions to Avoid:

Heat;
Store out of direct sunlight.

Materials to Avoid:

Strong oxidizing agents;

Hazardous Decomposition:

Formaldehyde - During Combustion;
Carbon monoxide - During Combustion;
Carbon dioxide - During Combustion;
Oxides of Nitrogen - During Combustion;
Oxides of Sulfur - During Combustion;

3M(TM) SCOTCH-WELD(TM)THREADLOCKER TL22 (FORMERLY Page 8 of 11
SOLD AS RITE-LOK™ THREADLOCKER TL22-1, TL22-10,
TL22-50, TL22-250, & TL22-1L)(INACTIVE)

Toxic Vapour, Gas, Particulate - During Combustion;
Stability and Reactivity:
Stable. Hazardous polymerization will not occur.

11 Toxicological Information

Effects from Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Vapours released during curing may cause eye irritation.

Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Effects from Skin Contact:

Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

Prolonged or repeated exposure may cause: Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

May be absorbed through skin and cause target organ effects.

Effects from Inhalation:

Vapours released during curing may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing,

nasal discharge, headache, hoarseness, and nose and throat pain.

Prolonged or repeated exposure may cause:

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure. May be absorbed following inhalation and cause target organ effects.

Effects from Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

Sensitization Information:

Prolonged or repeated exposure may cause: Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Carcinogenicity:

WARNING: Contains a chemical which can cause cancer. Titanium Dioxide (CAS 13463-67-7) (IARC human carcinogen 2B).

Mutagenicity:

No data available.

Reproductive Effects:

METHYL ALCOHOL (67-56-1): can cause birth defects or other reproductive harm.

Component Based Information:

3M(TM) SCOTCH-WELD(TM)THREADLOCKER TL22 (FORMERLY Page 9 of 11
SOLD AS RITE-LOK™ THREADLOCKER TL22-1, TL22-10,
TL22-50, TL22-250, & TL22-1L)(INACTIVE)

Very toxic by inhalation.

Oxidizing material

Product Based Information:

No data available.

Other Effects & Information:

May cause blindness.

Prolonged or repeated exposure may cause: Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

12 Ecological Information

Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

13 Disposal Considerations

Product as Sold:

No data available.

Product Packaging:

No data available.

Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.

14 Transport Information

Transportation of Dangerous Goods

TDG Classification:

Non-Regulated Material

Special Information:: Contact 3M for more information.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M

3M(TM) SCOTCH-WELD(TM)THREADLOCKER TL22 (FORMERLY SOLD AS RITE-LOK™ THREADLOCKER TL22-1, TL22-10, TL22-50, TL22-250, & TL22-1L)(INACTIVE) Page 10 of 11

policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. The original 3M package is certified for Canadian ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

15 Regulatory Information

WHMIS Classification:

C, D1A, D2A, D2B

NOTE:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Product Certifications:

The product on this MSDS, or all its components, is included on the following countries' chemical inventories, as noted:

TSCA - Toxic Substances Control Act (USA)

The components of this product are in compliance with the chemical notification requirements of CEPA.

16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:
Update Tradename (Obsolete product)

The information in this Material Safety Data Sheet (MSDS) is believed

to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

---End---

3M(TM) SCOTCH-WELD(TM)THREADLOCKER TL22 (FORMERLY Page 11 of 11
SOLD AS RITE-LOK™ THREADLOCKER TL22-1, TL22-10,
TL22-50, TL22-250, & TL22-1L)(INACTIVE)
