

Material Safety Data Sheet VOLVO HIGH STRENGTH THREAD LOCK

1. Product and company identification

Material uses : Industrial applications: Adhesive.

Manufacturer : Chemtool Incorporated

801 West Rockton Road Rockton, IL 61072 U.S.A. Tel: +01 815.957.4140 Fax: +01 815.624.0292

Product code : RMC8426250, RMC8426206

MSDS # : 2097
Validation date : 9/27/2013.
In case of emergency : INFOTRAC

U.S. and Canada - 800.535.5053

Outside the U.S. and Canada - +01 352.323.3500

2. Hazards identification

Emergency overview

Physical state : Liquid
Color : Red.
Odor : Mild.
Signal word : CAUTION!

Hazard statements : MAY CAUSE EYE AND SKIN IRRITATION.

Precautionary measures : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may

be delayed following exposure.

Ingestion : No known significant effects or critical hazards.

Skin : Moderately irritating to the skin.

Eyes : Moderately irritating to eyes.

Potential chronic health effects

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2. Hazards identification

Chronic effects
 : No known significant effects or critical hazards.
 Carcinogenicity
 : No known significant effects or critical hazards.
 Mutagenicity
 : No known significant effects or critical hazards.
 Teratogenicity
 : No known significant effects or critical hazards.
 Developmental effects
 : No known significant effects or critical hazards.
 Fertility effects
 : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation: No specific data.Ingestion: No specific data.

Skin : Adverse symptoms may include the following:

irritation redness

Eyes : Adverse symptoms may include the following:

irritation watering redness

Medical conditions aggravated by overexposure : None known.

See toxicological information (Section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	40-60

Canada

Name	CAS number	%
2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	40-60

Mexico

Classification

Name	CAS number	UN number	%	IDLH	Н	F	R	Special
2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	Not available.	40-60	-	2	1	0	-

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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4. First aid measures

Eye contact

: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5. Fire-fighting measures

Flammability of the product : In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

Special exposure hazards

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides sulfur oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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6. Accidental release measures

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

: Store between the following temperatures: 15 to 32°C (59 to 89.6°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

United States

Ingredient

Exposure limits

No exposure limit value known.

Canada

Occupational exposure limits

No exposure limit value known.

Mexico

Occupational exposure limits

No exposure limit value known.

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Engineering measures

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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8. Exposure controls/personal protection

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Eyes

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Physical state : Liquid

Flash point : Closed cup: 96°C (204.8°F) [Tagliabue.]

Auto-ignition temperature : Not available.

Flammable limits : Not available.

Color : Red.
Odor : Mild.

pH : Not applicable.
 Boiling/condensation point : >149°C (>300.2°F)
 Melting/freezing point : Not available.

Density : 1.1 g/cm³
Vapor pressure : Not available.
Vapor density : Not available.
Volatility : Not available.
Evaporation rate : Not available.
Viscosity : Not available.
Dispersibility properties : Not available.

Solubility : Very slightly soluble in the following materials: cold water.

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10. Stability and reactivity

Chemical stability : The product is stable.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Possibility of hazardous

reactions

products

: Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

United States

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,2'-ethylenedioxydiethyl dimethacrylate	LD50 Oral	Rat	10837 mg/kg	-

Conclusion/Summary

: No known significant effects or critical hazards.

Chronic toxicity

Conclusion/Summary

: No known significant effects or critical hazards.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2'-ethylenedioxydiethyl dimethacrylate	Skin - Moderate irritant	Mouse	-	336 hours 25 Percent Intermittent	-

Conclusion/Summary

Skin : May cause skin irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE

HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE

FOLLOWED.

Eyes : May cause eye irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE

HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE

FOLLOWED.

Respiratory: No known significant effects or critical hazards.

Sensitizer

Conclusion/Summary

Skin : No specific information is available in our database regarding the skin sensitizing

properties of this product. Sensitization not suspected for humans.

Respiratory

: Sensitization not suspected for humans.

Carcinogenicity

Conclusion/Summary: There are no data available on the mixture itself. Carcinogenicity not suspected for

humans.

Mutagenicity

Conclusion/Summary: There are no data available on the mixture itself. Mutagenicity not suspected for

humans.

Teratogenicity

Conclusion/Summary: There are no data available on the mixture itself. Teratogenicity not suspected for

humans.

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11. Toxicological information

Reproductive toxicity

Conclusion/Summary

: There are no data available on the mixture itself. Not considered to be dangerous to humans, according to our database.

Canada

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,2'-ethylenedioxydiethyl dimethacrylate	LD50 Oral	Rat	10837 mg/kg	-

Conclusion/Summary

: No known significant effects or critical hazards.

Chronic toxicity

Conclusion/Summary: No known significant effects or critical hazards.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2'-ethylenedioxydiethyl dimethacrylate	Skin - Moderate irritant	Mouse	-	336 hours 25 Percent Intermittent	-

Conclusion/Summary

Skin

: May cause skin irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Eyes

: May cause eye irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Respiratory

: No known significant effects or critical hazards.

<u>Sensitizer</u>

Conclusion/Summary

Skin

- No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.
- Respiratory

Carcinogenicity

Conclusion/Summary

- : Sensitization not suspected for humans.
- There are no data available on the mixture itself. Carcinogenicity not suspected for humans.

Mutagenicity

Conclusion/Summary

: There are no data available on the mixture itself. Mutagenicity not suspected for humans.

Teratogenicity

Conclusion/Summary

: There are no data available on the mixture itself. Teratogenicity not suspected for humans.

Reproductive toxicity

Conclusion/Summary

: There are no data available on the mixture itself. Not considered to be dangerous to humans, according to our database.

Mexico

Acute toxicity

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11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
2,2'-ethylenedioxydiethyl dimethacrylate	LD50 Oral	Rat	10837 mg/kg	-

Conclusion/Summary

: No known significant effects or critical hazards.

Chronic toxicity

Conclusion/Summary : No known

: No known significant effects or critical hazards.

Irritation/Corrosion

Product/ingredient name	Result	Score	Score	Exposure	Observation
2,2'-ethylenedioxydiethyl dimethacrylate	Skin - Moderate irritant	Mouse		336 hours 25 Percent Intermittent	-

Conclusion/Summary

Skin

: May cause skin irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Eyes

: May cause eye irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Respiratory

: No known significant effects or critical hazards.

Sensitizer

Conclusion/Summary

Skin

: No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.

Respiratory

: Sensitization not suspected for humans.

Carcinogenicity

Conclusion/Summary

: There are no data available on the mixture itself. Carcinogenicity not suspected for humans.

Mutagenicity

Conclusion/Summary

: There are no data available on the mixture itself. Mutagenicity not suspected for humans.

Teratogenicity

Conclusion/Summary

: There are no data available on the mixture itself. Teratogenicity not suspected for humans.

Reproductive toxicity

Conclusion/Summary

: There are no data available on the mixture itself. Not considered to be dangerous to humans, according to our database.

12. Ecological information

Ecotoxicity

: No known significant effects or critical hazards.

United States

Aquatic ecotoxicity

Conclusion/Summary

: There are no data available on the mixture itself.

Persistence/degradability

Conclusion/Summary: This product has not been tested for biodegradation.

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12. Ecological information

Canada

Aquatic ecotoxicity

Conclusion/Summary

: There are no data available on the mixture itself.

Persistence/degradability

Conclusion/Summary

: This product has not been tested for biodegradation.

Mexico

Aquatic ecotoxicity

Conclusion/Summary

: There are no data available on the mixture itself.

Persistence/degradability

Conclusion/Summary : This product has not been tested for biodegradation.

13. Disposal considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		Reportable quantity 3333.3 lbs / 1513.3 kg [363.44 gal / 1375.8 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
TDG Classification	Not regulated.	-	-	-		-
Mexico Classification	Not regulated.	-	-	-		-

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14. Transport information						
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG*: Packing group

15. Regulatory information

United States

HCS Classification : Irritating material

U.S. Federal regulations : TSCA 8(a) PAIR: 1,2-benzisothiazol-3(2H)-one 1,1-dioxide

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304: No products were found.

SARA 311/312 Hazards identification: Immediate (acute) health hazard

Clean Air Act Section 112 : Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not listed

Class I Substances

Clean Air Act Section 602 : Not listed

Class II Substances

DEA List I Chemicals : Not listed

(Precursor Chemicals)

DEA List II Chemicals : Not listed

(Essential Chemicals)

SARA 313

		Product name	CAS number	Concentration
Form R - Reporting requirements	:	1,2-benzisothiazol-3(2H)-one 1,1-dioxide	81-07-2	1-5
Supplier notification	:	1,2-benzisothiazol-3(2H)-one 1,1-dioxide	81-07-2	1-5

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations

Connecticut Carcinogen Reporting: None of the components are listed.Connecticut Hazardous Material Survey: None of the components are listed.Florida substances: None of the components are listed.Illinois Chemical Safety Act: None of the components are listed.

Illinois Toxic Substances Disclosure to Employee

Act

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: None of the components are listed.

15. Regulatory information

Louisiana Reporting
Louisiana Spill

Massachusetts Spill

Massachusetts Substances

Michigan Critical Material

Minnesota Hazardous Substances

New Jersey Spill

New Jersey Toxic Catastrophe Prevention Act

New Jersey Hazardous Substances

New York Acutely Hazardous Substances

New York Toxic Chemical Release Reporting Pennsylvania RTK Hazardous Substances

Rhode Island Hazardous Substances

California Prop. 65

None of the components are listed.

United States inventory

(TSCA 8b)

: All components are listed or exempted.

Canada

WHMIS (Canada)

: Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists

Canadian NPRI
CEPA Toxic substances
Canada inventory; DSL/

None of the components are listed.All components are listed or exempted.

: None of the components are listed.

NDSL

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

Mexico

Classification :



International regulations

International lists : Australia inventory (AICS): Not determined.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: Not determined.

Korea inventory: All components are listed or exempted. **Malaysia Inventory (EHS Register)**: Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

: None of the components are listed.

The following components are listed: 1,

None of the components are listed.

None of the components are listed.

: The following components are listed: SACCHARIN

The following components are listed: SACCHARIN: 1.

: The following components are listed: Saccharin and salts; 1,2-Benzisothiazolin-3-one, 1,1-dioxide and salts

2-BENZISOTHIAZOL-3(2H)-ONE, 1,1-DIOXIDE

2-BENZISOTHIAZOL-3(2H)-ONE, 1,1-DIOXIDE

Philippines inventory (PICCS): Not determined. Taiwan inventory (CSNN): Not determined.

Europe inventory: All components are listed or exempted.

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15. Regulatory information

Chemical Weapons

Convention List Schedule

I Chemicals

Chemical Weapons

Convention List Schedule

II Chemicals

Chemical Weapons

Convention List Schedule

III Chemicals

: Not listed

: Not listed

: Not listed

16. Other information

: MAY CAUSE EYE AND SKIN IRRITATION. Label requirements

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

: 9/27/2013. **Date of issue** Date of previous issue : 9/27/2013. Version : 1.01

Prepared by : Regulatory Department, Chemtool Inc.

Indicates information that has changed from previously issued version.

Notice to reader

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16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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