

SAFETY DATA SHEET



Thermo Manufacturing Inc.

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Revision Date: 6/08/2015

ThermoSealant HIGH TEMPERATURE RTV SILICONE SEALANT

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Brand Name: ThermoSealant HIGH TEMP RTV SILICONE SEALANT
Other Names/Synonyms: None
Recommended Use: Sealant - Other
Uses advised against: No information available

Company Contact Information

Thermo Manufacturing Inc.
3709 Columbus Road NE
Canton, OH 44705
Telephone: (888) 678-3709

Emergency Telephone Number

CHEMTREC: 1-800-424-9300 (24 hours) or 1-703-527-3887

2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Precautionary Statements - Prevention

P271: Use only outdoors or in a well-ventilated area

Other Hazards

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Mixture

Chemical Nature: Silicone

<u>CAS Number</u>	<u>*Wt %</u>	<u>Component Name</u>
64742-46-7	20 - 30	Distillates (petroleum), hydrotreated middle
7631-86-9	5 - 10	Silicone Dioxide
1333-86-4	0.1 - 1	Carbon Black
13463-67-7	0.1 - 1	Titanium Dioxide (if needed)

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*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General Advice: Show this safety data sheet to the doctor in attendance.

Eye Contact

Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.

Skin Contact

Wash with water and soap as a precaution. Get medical attention if symptoms occur.

Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion

If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Self-protection of the first aider

First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

Most important symptoms and effects, both acute and delayed

None known

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically and supportively

Additional Information

In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Water spray; Alcohol-resistant foam; Dry chemical; Carbon Dioxide

Unsuitable extinguishing media

None

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Specific Extinguishing Methods

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use spray water to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so.

Hazardous Combustion Products

Carbon oxides; Silicon oxides; Formaldehyde

Specific Hazards during Fire Fighting

Exposure to combustion products may be a hazard to health

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Follow safe handling advice. Ensure adequate ventilation. Use personal protective equipment as required.

Other Information

Refer to protective measures listed in Sections 7 and 8.

Environmental Precautions

Environmental Precautions

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for Containment and Cleaning Up

Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to

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determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling

Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment. Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage

Keep in properly labeled containers; Store in accordance with the particular national regulations

Incompatible Products

Strong oxidizing agents

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	Value type (Form of exposure)	Control parameters/Permissible concentration	Basis
Distillates (Petroleum), Hydro treated middle (CAS# 64742-46-7)	TWA (Mist)	5 mg/m ³	OSHA Z-1
	TWA (Mist)	5 mg/m ³	OSHA PO
	TWA (Mist)	5 mg/m ³	NIOSHE REL
	ST (Mist)	10 mg/m ³	NIOSHE REL
Silicon dioxide (CAS# 7631-86-9)	TWA (Dust)	20 million particles per cubic foot (Silica)	OSHA Z-3
	TWA (Dust)	80 mg/m ³ / %SiO ₂ (Silica)	OSHA Z-3
	TWA	6 mg/m ³ (Silica)	NIOSH REL

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Titanium dioxide (CAS# 13463-67-7)	TWA (total dust)	15 mg/m ³	OSHA Z-1
	TWA	10 mg/m ³ (TiO ₂)	ACGIH
Carbon black CAS# (1333-86-4)	TWA	3.5 mg/m ³	NIOSH REL
	TWA	3.5 mg/m ³	OSHA Z-1
	TWA (inhalable fraction)	3 mg/m ³	ACGIH

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Wear safety glasses

Skin and Body Protection

Impervious gloves; Skin should be washed after contact

Respiratory Protection

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hygiene Measures

Ensure that eye flushing systems and safety showers are located close to the working place. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

Remarks

Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

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9. PHYSICAL & CHEMICAL PROPERTIES

Physical Form: Paste, Liquid
Color: Red
Odor: Acetic
Odor Threshold: No information available
Appearance: Varies

<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
pH	UNKNOWN	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	100°C	Closed cup method
Evaporation Rate	No data available	None known
Flammability (solid, gas)	Not classified as a flammability hazard	
Flammability Limit in Air		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	0.97	None known
Water Solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	Not explosive	
Oxidizing Properties	Not oxidizing	

Other Information

Softening Point	No data available
VOC Content (g/L)	<29
Particle Size	No data available
Particle Size Distribution	No data available

10. STABILITY AND REACTIVITY

Reactivity

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Not classified as a reactivity hazard

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Acetic acid is formed upon contact with water or humid air. Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid

None known based on information supplied.

Incompatible materials

Oxidizing agents

Hazardous Decomposition Products

Formaldehyde

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact:

Not classified based on available information.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
XtraBond HT	-	-	8.09 mg/L (4h/dust) Test method: calculation

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Distillates (Petroleum), Hydro treated middle (CAS# 64742-46-7)	> 5,000 mg/kg (rat)	> 2,000 mg/kg (rat)	1.78 mg/L (rat/4h/dust)
Silicon dioxide (CAS# 7631-86-9)	> 3300 mg/kg (rat) Assessment: The substance or mixture has no acute oral toxicity Remarks: Information taken from reference works and the literature.	> 5,000 mg/kg (rabbit) Assessment: The substance or mixture has no acute dermal toxicity Remarks: Information taken from reference works and the literature.	>2.08 mg/L (rat/4h/dust) Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Information taken from reference works and the literature.
Titanium dioxide (CAS# 13463-67-7)	> 5000 mg/kg (rat)	-	>6.82 mg/L (rat/4h/dust) Assessment: The substance or mixture has no acute inhalation toxicity
Carbon black CAS# (1333-86-4)	> 5000 mg/kg (rat)	-	>0.0046 mg/L (rat/4h/dust) Assessment: The substance or mixture has no acute inhalation toxicity

Skin corrosion/irritation

Not classified based on available information.

Ingredients

Silicon dioxide:

Species: Guinea pig

Result: No skin irritation

Remarks: Information taken from reference works and the literature.

Titanium dioxide:

Species: Rabbit

Result: No skin irritation

Carbon black:

Species: Rabbit

Result: No skin irritation

Serious eye damage/ eye irritation

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Not classified based on available information

Ingredients

Silicon dioxide:

Result: No eye irritation

Remarks: Information taken from reference works and the literature.

Titanium dioxide:

Species: Rabbit

Result: No eye irritation

Carbon black:

Species: Rabbit

Result: No eye irritation

Respiratory or skin sensitization:

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Ingredients

Silicon dioxide:

Result: Does not cause skin sensitization

Test type: Skin

Species: Guinea pig

Remarks: No known sensitizing effect

Remarks: Information taken from reference works and the literature.

Titanium dioxide:

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse

Result: negative

Carbon black:

Test Type: Buehler Test

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

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Germ cell mutagenicity

Not classified based on available information

Ingredients

Silicon dioxide:

Genotoxicity in vitro: Result: negative
Remarks: Information taken from reference works and the literature.

Genotoxicity in vivo: Application Route: Ingestion
Result: negative
Remarks: Information taken from reference works and the literature.

Germ cell mutagenicity: Assessment: Animal testing did not show any mutagenic effects.

Titanium dioxide:

Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Genotoxicity in vivo: Test Type: In vivo micronucleus test
Species: Mouse
Result: negative

Carbon black:

Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Carcinogenicity

Not classified based on available information

Titanium dioxide:

Species: Rat

Application Route: inhalation (dust/mist/fume)

Exposure time: 24 Months

Method: OECD Test Guideline 453

Result: positive

Remarks: The mechanism or mode of action may not be relevant in humans. The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.

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Carcinogenicity - Assessment:

Limited evidence of carcinogenicity in inhalation studies with animals.

Carbon black:

Species: Rat

Application Route: Inhalation

Exposure time: 2 Years

Result: positive

Target Organs: Lungs

Remarks: The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.

Carcinogenicity - Assessment: Sufficient evidence of carcinogenicity in inhalation studies with animals

Ingredients

Carbon black:

Routes of exposure: inhalation (dust/mist/fume)

Assessment: No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

Repeated Dose Toxicity

Ingredients

Titanium dioxide:

Species: Rat

NOAEL: 24,000 mg/kg

Application Route: Ingestion

Exposure time: 28 d

Species: Rat

NOAEL: 10 mg/m³

Application Route: inhalation (dust/mist/fume)

Exposure time: 2 y

Remarks: The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.

Carbon black:

Species: Rat

NOAEL: 1 mg/m³

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LOAEL: 7 mg/m³

Application Route: Inhalation

Test atmosphere: dust/mist

Exposure time: 90 d

Remarks: The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.

Aspiration Toxicity

Not classified based on available information

Ingredients

Distillates (petroleum), hydrotreated middle:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide (CAS# 13463-67-7)	-	Group 2B	-	-
Carbon black CAS# (1333-86-4)	-	Group 2B	-	-

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive Toxicity

Not classified based on information available.

STOT - single exposure

Not classified based on information available.

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STOT - repeated exposure

Not classified based on information available.

Carbon black

Routes of exposure: inhalation (dust/mist/fume)

Assessment: No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

Repeated dose toxicity

Titanium dioxide

Species: Rat

NOAEL: 24,000 mg/kg

Application Route: Ingestion

Exposure time: 28 d

Species: Rat

NOAEL: 10 mg/m³

Application Route: inhalation (dust/mist/fume)

Exposure time: 2 y

Remarks: The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.

Carbon black

Species: Rat

NOAEL: 1 mg/m³

LOAEL: 7 mg/m³

Application Route: Inhalation

Test atmosphere: dust/mist

Exposure time: 90 d

Remarks: The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.

Aspiration toxicity: Not classified based on available information.

Distillates (petroleum), hydrotreated middle

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

12. ECOLOGICAL CONSIDERATIONS

Ecotoxicity

The environmental impact of this product has not been fully investigated.

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Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Bacteria	Toxicity to Daphnia & other aquatic invertebrates
Titanium dioxide (CAS# 13463-67-7)	EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l Exposure time: 72 h	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203	EC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Carbon black CAS# (1333-86-4)	NOEC (Desmodesmus subspicatus (green algae)): 10,000 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	LC0 (Danio rerio (zebra fish)): 1,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203	-	EC50 (Daphnia magna (Water flea)): > 5,600 mg/l Exposure time: 24 h Method: OECD Test Guideline 202

Persistence and Degradability

No information available.

Bioaccumulation

No information available

Other adverse effects

No information available.

Mobility in soil

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods

This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form.

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Waste from residues

Dispose of in accordance with local regulations

Contaminated Packaging

Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

INTERNATIONAL

UNRTDG NOT REGULATED

IATA-DGR Not regulated

IMDG-Code Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

DOMESTIC

49 CFR Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

DSL All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

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SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ

SARA 311/312 Hazard Categories

Acute Health Hazard: No
Chronic Health Hazard: No
Fire Hazard: No
Sudden release of pressure hazard: No
Reactive Hazard: No

CERCLA Reportable Quantity

Ingredients	CAS #	Component RQ (lbs)	Calculated product RQ (lbs)
Acetic anhydride	108-24-7	5000	*
Acetic acid	64-19-7	5000	*

*Calculated RQ exceeds reasonably attainable upper limit

US State Regulations

California Proposition 65

Cobalt titanite green spinel: CAS# 68186-85-6

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Dimethyl siloxane, hydroxy-terminated CAS# 70131-67-8 50 - 70 %	X		X		
Distillates (petroleum), hydrotreated middle	X		X		

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CAS# 64742-46-7 20 - 30 %					
Silicon dioxide CAS# 7631-86-9 5 - 10 %	X		X		
Aluminum CAS# 7429-90-5 0 - 0.1 %			X		
Acetic acid CAS# 64-19-7 0 - 0.1 %			X		
Acetic anhydride CAS# 108-24-7 0 - 0.1 %			X		
Carbon black CAS# 1333-86-4 0.1 - 1 %	X				

16. OTHER INFORMATION

NFPA

Health Hazards: 1
Flammability: 1
Instability: 0
Physical/Chemical Haz. -

HMIS III

Health Hazards: 1
Flammability: 1
Physical Hazard: 0
Personal Protection: X

Full text of other abbreviations:

ACGIH: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL: USA. NIOSH Recommended Exposure Limits
OSHA P0: USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3: USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts

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ACGIH / TWA:	8-hour, time-weighted average
NIOSH REL / TWA:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA:	8-hour time weighted average
OSHA Z-1 / TWA:	8-hour time weighted average
OSHA Z-3 / TWA:	8-hour time weighted average

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

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