

SAFETY DATA SHEET

1. Identification

Product identifier RTV Silicone Sealant

Other means of identification

FIR No. 139293

Recommended use High temperature applications; recommended for use in 7.3L Power Stroke diesel engine.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Supplier

Company Name Ford Motor Company

Address Attention: MSDS Information, P.O. Box 1899

Dearborn, Michigan 48121

USA

1-800-392-3673 **Telephone MSDS Information** 1-800-448-2063

msds@brownart.com

Emergency telephone

numbers

Poison Control Center: USA and Canada: 1-800-959-3673 INFOTRAC (Transportation): USA and Canada 1-800-535-5053

2. Hazard(s) identification

Physical hazards Not classified. Not classified. **Health hazards Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements

None. Hazard symbol Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Precautionary statement

Observe good industrial hygiene practices. Prevention

Response Wash hands after handling.

Store away from incompatible materials. **Storage**

Dispose of waste and residues in accordance with local authority requirements. Disposal

Hazard(s) not otherwise

classified (HNOC)

May be harmful if swallowed. May irritate eyes and skin. May cause irritation of respiratory tract.

May cause an allergic skin reaction.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
CALCIUM CARBONATE		471-34-1	30 - < 40
SILICA, AMORPHOUS, FUMED, CRYSTALLINE FREE		112945-52-5	3 - < 5
Trimethoxy(methyl)silane		1185-55-3	3 - < 5
STEARIC ACID		57-11-4	1 - < 3

Specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Remove contaminated clothing immediately and wash skin with soap and water. Get medical Skin contact

attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Coughing.

Indication of immediate medical attention and special

treatment needed

Treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to General information

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Ensure adequate ventilation. Keep unnecessary personnel away. Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapors. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. Avoid prolonged exposure. Use personal protective equipment as required. Observe good industrial hygiene practices.

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Conditions for safe storage,

Store in original tightly closed container. Store away from incompatible materials (see Section 10

including any incompatibilities of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) **Form** Components Value Type **CALCIUM CARBONATE PEL** 5 mg/m3 Respirable fraction. (CAS 471-34-1) 15 mg/m3 Total dust.

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US. OSHA Table 7-3 (29 CFR 1910.1000)

Components	Type	Value	
SILICA, AMORPHOUS, FUMED, CRYSTALLINE FREE (CAS 112945-52-5)	TWA	0.8 mg/m3	
(= = = = = = = = = = = = = = = = = = =		20 mppcf	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	
STEARIC ACID (CAS 57-11-4)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide to Chemic	cal Hazards		
Components	Туре	Value	Form
CALCIUM CARBONATE (CAS 471-34-1)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
SILICA, AMORPHOUS,	TWA	6 mg/m3	

Biological limit values

Appropriate engineering

FUMED, CRYSTALLINE FREE (CAS 112945-52-5)

controls

No biological exposure limits noted for the ingredient(s).

Use adequate ventilation to control airborne concentrations below the exposure limits/guidelines. If user operations generate a vapor, dust and/or mist, use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

exposure limits/guidelines.

Skin protection

Hand protection The choice of an appropriate glove does not only depend on its material but also on other quality

features and is different from one producer to the other. Suitable chemical protective gloves should be worn when the potential exists for prolonged or repeated skin exposure. Nitrile gloves are recommended. Neoprene gloves are recommended. The use of Silver Shield® gloves is

recommended.

Other Wear suitable protective clothing. Wear appropriate chemical resistant clothing if applicable.

If engineering controls do not maintain airborne concentrations to a level which is adequate to Respiratory protection

protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection

Standard 29 CFR 1910.134 and/or Canadian Standard CSA Z94.4.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene Always observe good personal hygiene measures, such as washing after handling the material considerations

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Solid. Physical state Paste. **Form** Color Grey. Alcoholic. Odor Not available. **Odor threshold** Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available. range Not available. Flash point

Evaporation rate Not available.

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Version: 01 Issue Date: 06-17-2015 Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

(%)

Flammability limit - upper

Flammability limit - lower

(%)

Not available.

Not available.

Explosive limit - lower (%)

nit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 1.32

Relative density temperature 77 °F (25 °C)

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.
(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

VOC (Weight %) 49 g/l CAM310

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Fluorine. Oxidizing agents. Water, moisture.

Hazardous decomposition

products

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular

weight hydrocarbons. Formaldehyde. Sulfur oxides. Nitrogen oxides (NOx).

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful. May cause irritation to the respiratory system.

Skin contact May cause an allergic skin reaction. May be irritating to the skin.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Coughing.

Information on toxicological effects

Acute toxicity

Components Species Calculated/Test Results

CALCIUM CARBONATE (CAS 471-34-1)

Acute Oral

LD50 Mouse 6450 mg/kg

Rat 6450 mg/kg

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Components Species Calculated/Test Results

SILICA, AMORPHOUS, FUMED, CRYSTALLINE FREE (CAS 112945-52-5)

Acute

Oral

LD50 Mouse > 15000 mg/kg

Rat > 22500 mg/kg

STEARIC ACID (CAS 57-11-4)

Acute Oral

LD50 Rat 4.6 g/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

SILICA, AMORPHOUS, FUMED, CRYSTALLINE FREE 3 Not classifiable as to carcinogenicity to humans.

(CAS 112945-52-5)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure
Aspiration hazard

Not classified.

Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Ecotoxicity

Components Species Calculated/Test Results

CALCIUM CARBONATE (CAS 471-34-1)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) > 56000 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

STEARIC ACID 8.23

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

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Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

<Unspecified>

Not regulated as dangerous goods.

IATA

<Unspecified>

Not regulated as dangerous goods.

IMDG

<Unspecified>

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

the IBC Code

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations Not applicable.

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

CALCIUM CARBONATE (CAS 471-34-1)

SILICA, AMORPHOUS, FUMED, CRYSTALLINE FREE (CAS 112945-52-5)

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US. New Jersey Worker and Community Right-to-Know Act

CALCIUM CARBONATE (CAS 471-34-1)

US. Pennsylvania Worker and Community Right-to-Know Law

CALCIUM CARBONATE (CAS 471-34-1)

SILICA, AMORPHOUS, FUMED, CRYSTALLINE FREE (CAS 112945-52-5)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not applicable.

International Inventories

All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

16. Other information, including date of preparation or last revision

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Version # 01

HMIS® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 1
Instability: 0

Preparation Information and

Disclaimer

This document was prepared by FCSD-Toxicology, Ford Motor Company, Diagnostic Service Center II, 1800 Fairlane Drive, Allen Park, MI 48101, USA, based in part on information provided by the manufacturer. The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user. To the extent that there are any differences between this product's Safety Data Sheet (SDS) and the consumer packaged product labels, the SDS should be followed.

Part number(s) TA-31

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