

## Safety Data Sheet

**Section 1: Identification****Product identifier****Product Name** • **ENGINE SEALANT RTV SILICONE RUBBER ADHESIVE****Synonyms** • 04883971AB**Relevant identified uses of the substance or mixture and uses advised against****Recommended use** • Sealant**Restrictions on use** • No information available**Details of the supplier of the safety data sheet****Manufacturer** • Mopar (FCA US LLC Service & Customer Care Division)26311 Lawrence Ave.  
Center Line, MI 48015  
United States

MoparSDS@fcagroup.com

**Telephone (General)** • 1-800-84-Mopar**Emergency telephone number****Manufacturer** • 248-512-8002**Section 2: Hazard Identification****United States (US)**

According to: OSHA 29 CFR 1910.1200 HCS

**Classification of the substance or mixture****OSHA HCS 2012**

- H317 Skin Sensitization Category 1
  - H351 Carcinogenicity 2
- This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Label elements****OSHA HCS 2012****WARNING**

- Hazard statements**
- H317 May cause an allergic skin reaction
  - H351 Suspected of causing cancer

**Precautionary statements**

- Prevention**
- P202 - Do not handle until all safety precautions have been read and understood
  - P280 - Use personal protective equipment as required
  - P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
  - P272 Contaminated work clothing should not be allowed out of the workplace.
  - P280: Wear protective gloves.

- Response**
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
  - P302 + P352 IF ON SKIN: Wash with plenty of soap and water
  - P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
  - P363 Wash contaminated clothing before reuse.

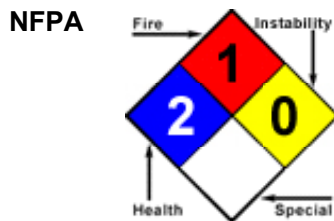
- Storage/Disposal**
- P405 Store locked up.
  - P501 Dispose of contents/ container to an approved waste disposal plant

- HCS 2012 Other Information**
- Unknown acute toxicity 4.7939% of the mixture consists of ingredient(s) of unknown toxicity.

**Other hazards**

- OSHA HCS 2012**
- Hazards not otherwise classified (HNOC): Not applicable.

**Other information**



- Health hazards 2 Flammability 1 Instability 0

- HMIS**
- Health hazards = 2; Flammability = 1; Physical hazards = 0; Personal protection = B.

**Key to abbreviations**

= NFPA (National Fire Protection Association) HMIS (Hazardous Material Information System)

**Section 3 - Composition/Information on Ingredients**

**Substances**

**Mixtures**

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
POLY (DIMETHYLSILOXANE), HYDROXY TERMINATED	CAS:70131-67-8	15% TO 40%		OSHA HCS 2012:	NDA
VINYL OXIMINOSILANE	CAS:2224-33-1 EINECS:218-747-8	1% TO 5%		OSHA HCS 2012:	NDA
2-BUTANONE OXIME	CAS:96-29-7 EINECS:202-496-6	0.1% TO 1%		OSHA HCS 2012:	NDA

CALCIUM CARBONATE	CAS:471-34-1 EINECS:207-439-9	30% TO 60%		OSHA HCS 2012:	NDA
CARBON BLACK	CAS:1333-86-4 EINECS:215-609-9	0.1% TO 1%		OSHA HCS 2012:	NDA
STEARIC ACID	CAS:57-11-4 EINECS:200-313-4	1% TO 5%		OSHA HCS 2012:	NDA

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

## Section 4: First-Aid Measures

### Description of first aid measures

#### Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.

#### Skin

- IF ON SKIN: Wash with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

#### Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Ingestion

- IF SWALLOWED. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

### Most important symptoms and effects, both acute and delayed

- See Section 2 for more information.

### Indication of any immediate medical attention and special treatment needed

#### Notes to Physician

- Treat symptomatically.

#### Other information

- General advice Get medical advice/attention if you feel unwell. Self-protection of the first aider: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

## Section 5: Fire-Fighting Measures

### Extinguishing media

**Suitable Extinguishing Media** ● Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam.

#### Unsuitable Extinguishing Media

- None.

### Special hazards arising from the substance or mixture

#### Unusual Fire and Explosion Hazards

- Specific hazards arising from the chemical: None in particular. Explosion data: Sensitivity to Mechanical Impact: None. Sensitivity to Static Discharge: None.

#### Hazardous Combustion Products

- None in particular.

### Advice for firefighters

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

## Section 6 - Accidental Release Measures

## Personal precautions, protective equipment and emergency procedures

### Personal Precautions

- Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin. Use personal protective equipment as required.

### Emergency Procedures

- No data available

### Environmental precautions

- Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

## Methods and material for containment and cleaning up

### Containment/Clean-up Measures

- Methods for containment Prevent further leakage or spillage if safe to do so. Methods for cleaning up Ensure adequate ventilation. Flood with water to complete polymerization and scrape off floor. Sweep up and shovel into suitable containers for disposal.  
Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations. Slippery, can cause falls if walked on.

## Section 7 - Handling and Storage

### Precautions for safe handling

#### Handling

- Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

### Conditions for safe storage, including any incompatibilities

#### Storage

- Keep container tightly closed in a dry and well-ventilated place. Protect from moisture.

#### Incompatible Materials or Ignition Sources

- Strong oxidizing agents, Acids, Water, Polymerization can occur.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

#### Exposure Limits/Guidelines

- CARBON BLACK (1333-86-4): NIOSH IDLH: 1750 mg/m<sup>3</sup>.

Exposure Limits/Guidelines					
	Result	ACGIH	NIOSH	OSHA	OSHA Vacated
CARBON BLACK (1333-86-4)	TWAs	3 mg/m <sup>3</sup> TWA (inhalable fraction)	3.5 mg/m <sup>3</sup> TWA; 0.1 mg/m <sup>3</sup> TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons, as PAH)	3.5 mg/m <sup>3</sup> TWA	3.5 mg/m <sup>3</sup> TWA
CALCIUM CARBONATE (471-34-1)	TWAs	Not established	10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust)	Not established	Not established

### Exposure Control Notations

#### ACGIH

- CARBON BLACK (1333-86-4): **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans)

### Exposure controls

#### Engineering Measures/Controls

- Showers Eyewash stations Ventilation systems.

#### Personal Protective Equipment

##### Respiratory

- Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.

##### Eye/Face

- Wear safety glasses with side shields (or goggles)

- Skin/Body**
- Wear protective gloves and protective clothing.
- General Industrial Hygiene Considerations**
- Handle in accordance with good industrial hygiene and safety practice.
- Environmental Exposure Controls**
- No data available

## Other Information

- Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### Key to abbreviations

= NIOSH IDLH Immediately Dangerous to Life or Health

## Section 9 - Physical and Chemical Properties

### Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Paste
Color	Black	Odor	Mild
Taste	No data available	Particulate Type	No data available
Particulate Size	No data available	Aerosol Type	No data available
Odor Threshold	No data available	Physical and Chemical Properties	No data available
General Properties			
Boiling Point	Not applicable.	Melting Point	No data available
Decomposition Temperature	No data available	Heat of Decomposition	No data available
pH	7 to 8	Specific Gravity/Relative Density	= 1.34
Density	No data available	Bulk Density	No data available
Water Solubility	No data available	Solvent Solubility	No data available
Viscosity	No data available	Explosive Properties	No data available
Oxidizing Properties:	No data available		
Volatility			
Vapor Pressure	< 5 mmHg (torr) @ 80 F(26.6667 C)	Vapor Density	3 Air=1
Evaporation Rate	< 1 n-Butyl Acetate = 1	VOC (Wt.)	< 5 %
VOC (Vol.)	No data available	Volatiles (Wt.)	No data available
Volatiles (Vol.)	No data available		
Flammability			
Flash Point	> 93 C(> 199.4 F) (Tag closed cup)	UEL	No data available
LEL		Flame Duration	No data available
Heat of Combustion ( $\Delta H_c$ )	No data available	Burning Time	No data available
Flame Height	No data available	Flame Extension	No data available
Ignition Distance	No data available	Self-Accelerating Decomposition Temperature (SADT)	No data available
Autoignition	No data available	Flammability (solid, gas)	No data available
Environmental			
Half-Life	No data available	Octanol/Water Partition coefficient	2-BUTANONE OXIME (96-29-7): 0.65
Coefficient of water/oil distribution	No data available	Bioaccumulation Factor	No data available

Bioconcentration Factor	No data available	Biochemical Oxygen Demand BOD/BOD5	No data available
Chemical Oxygen Demand	No data available	Persistence	No data available
Degradation	No data available		

## Section 10: Stability and Reactivity

### Reactivity

- No data available.

### Chemical stability

- Stable under recommended storage conditions.

### Possibility of hazardous reactions

- None under normal processing.

### Conditions to avoid

- Excessive heat.

### Incompatible materials

- Strong oxidizing agents, Acids, Water, Polymerization can occur.

### Hazardous decomposition products

- Carbon oxides, Nitrogen oxides (NOx), Formaldehyde, May release 2-butanone oxime (ethyl methyl ketoxime) at elevated temperature.

## Section 11 - Toxicological Information

### Information on toxicological effects

Components		
POLY (DIMETHYLSILOXANE), HYDROXY TERMINATED (15% TO 40%)	70131-67-8	<b>Acute Toxicity:</b> Inhalation-Rat LC50 • >8750 mg/m <sup>3</sup> 7 Hour(s); Skin-Rabbit LD50 • >16 mL/kg
2-BUTANONE OXIME (0.1% TO 1%)	96-29-7	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 930 mg/kg; Inhalation-Rat LC50 • 20 mg/L 4 Hour(s); Skin-Rabbit LD50 • 0.2 mg/kg
CALCIUM CARBONATE (30% TO 60%)	471-34-1	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 6450 mg/kg
CARBON BLACK (0.1% TO 1%)	1333-86-4	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • >15400 mg/kg; Skin-Rabbit LD50 • >3 g/kg
STEARIC ACID (1% TO 5%)	57-11-4	<b>Acute Toxicity:</b> Skin-Rabbit LD50 • >5 g/kg

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Data lacking
Aspiration Hazard	OSHA HCS 2012 • Data lacking
Carcinogenicity	OSHA HCS 2012 • Data lacking
Germ Cell Mutagenicity	OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	OSHA HCS 2012 • Data lacking
Skin sensitization	OSHA HCS 2012 • Data lacking
STOT-RE	OSHA HCS 2012 • Data lacking
STOT-SE	OSHA HCS 2012 • Data lacking

<b>Toxicity for Reproduction</b>	OSHA HCS 2012 • Data lacking
<b>Respiratory sensitization</b>	OSHA HCS 2012 • Data lacking
<b>Serious eye damage/Irritation</b>	OSHA HCS 2012 • Data lacking

**Target Organs**

- Eyes, Respiratory system, Skin.

**Potential Health Effects****Inhalation****Acute (Immediate)**

- May cause irritation of respiratory tract.

**Chronic (Delayed)**

- No data available

**Skin****Acute (Immediate)**

- May cause skin irritation and/or dermatitis. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

**Chronic (Delayed)**

- No data available

**Eye****Acute (Immediate)**

- Contact with eyes may cause irritation. May cause redness and tearing of the eyes.

**Chronic (Delayed)**

- No data available

**Ingestion****Acute (Immediate)**

- Ingestion may cause irritation to mucous membranes.

**Chronic (Delayed)**

- No data available

**Mutagenic Effects**

- No data available.

**Carcinogenic Effects**

- CARBON BLACK (1333-86-4): IARC Group 2B; OSHA Present. ACGIH: A3 - Animal Carcinogen.

**Other information**

- Sensitization No information available. The following values are calculated based on chapter 3.1 of the GHS document . ATEmix (oral) 14025 mg/kg ATEmix (dermal) 10524 mg/kg. Symptoms: No information available.

**Key to abbreviations**

= ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen 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) X - Present

**Section 12 - Ecological Information****Toxicity**

ENGINE SEALANT RTV SILICONE RUBBER ADHESIVE					
Dosage	Species	Duration	Results	Exposure Conditions	Comments
5600 mg/L	<b>Crustacea:</b> Daphnia magna	24 Hour(s)	EC50	NDA	Carbon Black (1333-86-4)
83 mg/L	<b>Algae:</b> Desmodesmus subspicatus	72 Hour(s)	EC50	NDA	2-Butanone oxime (96-29-7)
777-914 mg/L	<b>Fish:</b> Pimephales promelas	96 Hour(s)	LC50	Flow- through	2-Butanone oxime (96-29-7)
320-1000 mg/L	<b>Fish:</b> Leuciscus idus	96 Hour(s)	LC50	NDA	2-Butanone oxime (96-29-7)
760 mg/L	<b>Fish:</b> Poecilia reticulata	96 Hour(s)	LC50	Static	2-Butanone oxime (96-29-7)
750 mg/L	<b>Crustacea:</b> Daphnia magna	48 Hour(s)	EC50	Static	2-Butanone oxime (96-29-7)

- Ecotoxicity: None known. 99.8498% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

**Persistence and degradability**

- No information available.

**Bioaccumulative potential**

- No information available.

**Mobility in Soil**

- 2-BUTANONE OXIME 96-29-7: Partition coefficient - 0.65.

**Other adverse effects**

- No information available.

**Section 13 - Disposal Considerations****Waste treatment methods****Product waste**

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

**Packaging waste**

- Do not reuse container.

**Other Information**

- US EPA Waste Number Not applicable.

**Section 14 - Transport Information**

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	NDA	NDA	NDA	NDA	NDA
TDG	NDA	NDA	NDA	NDA	NDA
IMO/IMDG	NDA	NDA	NDA	NDA	NDA
ADN	NDA	NDA	NDA	NDA	NDA
ADR/RID	NDA	NDA	NDA	NDA	NDA
IATA/ICAO	NDA	NDA	NDA	NDA	NDA

**Special precautions for user**

- No data available

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

- No data available

**Other information**

- DOT ● Proper shipping name: Not regulated.
- IMO/IMDG ● Proper shipping name: Not regulated.
- IATA/ICAO ● Proper shipping name: Not regulated.

**Section 15 - Regulatory Information****Safety, health and environmental regulations/legislation specific for the substance or mixture****SARA Hazard Classifications**

- SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. SARA 311/312 Hazard Categories Acute health hazard Yes



Chronic Health Hazard Yes Fire hazard No Sudden release of pressure hazard No  
Reactive Hazard No

State Right To Know			
Component	CAS	NJ	PA
2-BUTANONE OXIME	96-29-7	No	No
CALCIUM CARBONATE	471-34-1	No	No
CARBON BLACK	1333-86-4	Yes	Yes
POLY (DIMETHYLSILOXANE), HYDROXY TERMINATED	70131-67-8	No	No
VINYL OXIMINOSILANE	2224-33-1	No	No

Inventory					
Component	CAS	Canada DSL	EU EINECS	EU ELNICS	TSCA
2-BUTANONE OXIME	96-29-7	Yes	Yes	No	Yes
CALCIUM CARBONATE	471-34-1	Yes	Yes	No	Yes
CARBON BLACK	1333-86-4	Yes	Yes	Yes	Yes
POLY (DIMETHYLSILOXANE), HYDROXY TERMINATED	70131-67-8	Yes	No	No	Yes
VINYL OXIMINOSILANE	2224-33-1	Yes	Yes	No	Yes

## Canada

### Labor

#### Canada - WHMIS - Classifications of Substances

• POLY (DIMETHYLSILOXANE), HYDROXY TERMINATED	70131-67-8	Not Listed
• 2-BUTANONE OXIME	96-29-7	Not Listed
• VINYL OXIMINOSILANE	2224-33-1	Not Listed
• CALCIUM CARBONATE	471-34-1	Uncontrolled product according to WHMIS classification criteria D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Carbon Black, non-respirable on Health Canada's WHMIS Division website.)
• CARBON BLACK	1333-86-4	

#### Canada - WHMIS - Ingredient Disclosure List

• POLY (DIMETHYLSILOXANE), HYDROXY TERMINATED	70131-67-8	Not Listed
• 2-BUTANONE OXIME	96-29-7	Not Listed
• VINYL OXIMINOSILANE	2224-33-1	Not Listed
• CALCIUM CARBONATE	471-34-1	Not Listed
• CARBON BLACK	1333-86-4	1 %

**United States - California****Environment****U.S. - California - Proposition 65 - Carcinogens List**

• POLY (DIMETHYLSILOXANE), HYDROXY TERMINATED	70131-67-8	Not Listed
• 2-BUTANONE OXIME	96-29-7	Not Listed
• VINYL OXIMINOSILANE	2224-33-1	Not Listed
• CALCIUM CARBONATE	471-34-1	Not Listed
• CARBON BLACK	1333-86-4	carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size)

**Other Information**

- CWA (Clean Water Act) This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)
- CERCLA This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material. U.S. State Right-to-Know Regulations: CARBON BLACK (1333-86-4): MA; Aluminium Powder (7429-90-5): NJ, MA, PA. U.S. EPA Label Information EPA Pesticide Registration Number Not applicable. International Inventories TSCA Complies DSL/NDSL Complies EINECS/ELINCS Does not comply ENCS Does not comply IECSC Complies KECL Complies PICCS Complies AICS Complies. California Proposition 65: This product contains the following Proposition 65 chemicals Chemical Name: CARBON BLACK - 1333-86-4, California Proposition 65: Carcinogen.

**Key to abbreviations**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

**Section 16 - Other Information**

<b>Last Revision Date</b>	● 04/May/2015
<b>Preparation Date</b>	● 04/May/2015
<b>Disclaimer/Statement of Liability</b>	● No data available