

# SAFETY DATA SHEET

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Revision: 1  
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## Mahle Clevite JV Series

Section 1: Product and Company Identification		
Product Identifier:	Mahle Clevite JV Series	Emergency Phone Number
Recommended Use:	Adhesive	Infotrac: +1-800-535-5053 (Within US)
Restrictions on Use:	None known	Infotrac: +1-352-323-3500 (Outside US)

Section 2: Hazard(s) Identification	
GHS Classification:	Not a hazardous substance or mixture.
Acute Effects:	No information on significant adverse effects.
Delayed Effects:	No information on significant adverse effects.
Indication of Immediate Medical Attention and Special Treatment Needed, If Needed:	Treat symptomatically and supportively.
<b>GHS Label Elements</b>	
Symbol(s):	None.
Signal Word:	None.
Hazard Statement(s):	None known.
Precautionary Statement(s)	
Prevention:	Use only outdoors or in a well-ventilated area. Avoid release to the environment.
Response:	None known.
Storage:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Disposal:	Dispose of contents/container in accordance with local/regional/national/international regulations.

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## Section 3: Composition/Information on Ingredients

<u>CAS</u>	<u>Component</u>	<u>Percent</u>
7631-86-9	Silicon dioxide	5 - <10
64742-46-7	Distillates (petroleum), hydrotreated middle	5 - <10
13463-67-7	Titanium dioxide	1 - <5
7429-90-5	Aluminum	1 - <5
1333-86-4	Carbon black	0.1 - <1

## Section 4: First-Aid Measures

Inhalation:	IF INHALED: Remove to fresh air. Get medical attention if symptoms occur.
Skin Contact:	IF ON SKIN: Wash with soap and water as a precaution. Get medical advice/attention if symptoms occur.
Eye Contact:	IF IN EYES: Flush eyes with water as a precaution. If eye irritation develops and persists: Get medical advice/attention.
Ingestion:	If swallowed, DO NOT induce vomiting. Get immediate medical attention if symptoms occur. Rinse mouth thoroughly with water.

## Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:	Use carbon dioxide, regular dry chemical, alcohol-resistant foam or water.
Unsuitable Extinguishing Media:	None known.
<b>Specific Hazards Arising from the Chemical</b>	
Hazardous Decomposition Products:	Upon decomposition, this product emits carbon oxides, silicon oxides, formaldehyde, and metal oxides.
Special Protective Equipment and Precautions for Firefighters:	Exposure to combustion products may be a hazard to health. Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.
Specific extinguishing methods:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

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<b>Section 6: Accidental Release Measures</b>	
Personal Precautions, Protective Equipment and Emergency Procedures:	Follow safe handling advice and personal protective equipment recommendations.
Environment Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminate wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and Materials for Containment and Cleaning Up:	Absorb 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.

<b>Section 7: Handling and Storage</b>	
<b>Precautions for Safe Handling</b> Protective Measures:	Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment.
Advice on General Occupational Hygiene:	Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Wash contaminate clothing before reuse.
Conditions for Safe Storage, including any Incompatibilities:	Store and handle in accordance with all current regulations and standards. Keep in properly labeled containers. Keep separated from incompatible substances.
Incompatibilities:	Strong oxidizing materials

<b>Section 8: Exposure Controls/Personal Protection</b>		
<b>Component Exposure Limits</b>		
CAS	Component	Exposure Limits
7631-86-9	Silicon dioxide	<b>OSHA Z-3:</b> 20 million particles/ft <sup>3</sup> (Silica) TWA (dust); 80 mg/m <sup>3</sup> / %SiO <sub>2</sub> (Silica) TWA (dust) <b>NIOSH REL:</b> 6 mg/m <sup>3</sup> (Silica) TWA

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64742-46-7	Distillates (petroleum), hydrotreated middle	<b>OSHA Z-1:</b> 5 mg/m <sup>3</sup> TWA (mist) <b>OSHA P0:</b> 5 mg/m <sup>3</sup> TWA (mist)
		<b>NIOSH REL:</b> 5 mg/m <sup>3</sup> TWA (mist); 10 mg/m <sup>3</sup> ST (mist)
13463-67-7	Titanium dioxide	<b>ACGIH:</b> 10 mg/m <sup>3</sup> TWA
		<b>OSHA Z-1:</b> 15 mg/m <sup>3</sup> TWA (total dust)
7429-90-5	Aluminum	<b>ACGIH:</b> 1 mg/m <sup>3</sup> TWA (respirable fraction)
		<b>OSHA Z-1:</b> 15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)
		<b>NIOSH REL:</b> 5 mg/m <sup>3</sup> TWA (respirable fraction); 10 mg/m <sup>3</sup> TWA (total); 5 mg/m <sup>3</sup> TWA (pyro powders)
1333-86-4	Carbon black	<b>ACGIH:</b> 3 mg/m <sup>3</sup> TWA (inhalable fraction)
		<b>OSHA Z-1:</b> 3.5 mg/m <sup>3</sup> TWA
		<b>NIOSH REL:</b> 3.5 mg/m <sup>3</sup> TWA

<p>Appropriate Engineering Controls:</p>	<p>Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Ensure compliance with applicable exposure limits. Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at work-places have to be considered in workplace risk assessment. Relevant limits include: OSHA PEL for Particulates Not Otherwise Regulated of 15 mg/m<sup>3</sup> - total dust, 5 mg/m<sup>3</sup> - respirable fraction; and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m<sup>3</sup> - respirable particles, 10 mg/m<sup>3</sup> - inhalable particles.</p>
<p><b>Individual Protection Measures</b></p> <p>Eye/Face Protection:</p>	<p>Wear safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.</p>
<p>Skin Protection:</p>	<p>Skin should be washed after contact.</p>
<p>Hand Protection:</p>	<p>Wash hands before breaks and at the end of workday.</p>
<p>Respiratory Protection:</p>	<p>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.</p>

<b>Section 9: Physical and Chemical Properties</b>			
<b>Physical State:</b>	Liquid	<b>Appearance:</b>	Paste
<b>Color:</b>	In accordance with product description	<b>Physical Form:</b>	Paste
<b>Odor:</b>	Acetic Acid	<b>Odor Threshold:</b>	Not available
<b>pH:</b>	Not applicable	<b>Melting Point:</b>	Not available
<b>Boiling Point:</b>	Not applicable	<b>Decomposition:</b>	Not available

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<p><b>Flash Point:</b> &gt;100 °C (closed cup)</p> <p><b>OSHA Flammability Class:</b> Not classified as a flammability hazard</p> <p><b>Vapor Density (air = 1):</b> Not available</p> <p><b>Specific Gravity (water = 1):</b> Not available</p> <p><b>Log KOW:</b> Not available</p> <p><b>KOC:</b> Not available</p> <p><b>Viscosity:</b> Not applicable</p> <p><b>Volatility:</b> Not available</p>	<p><b>Evaporation Rate:</b> Not applicable</p> <p><b>Vapor Pressure:</b> Not applicable</p> <p><b>Density:</b> 1.007</p> <p><b>Water Solubility:</b> Not available</p> <p><b>Coeff. Water/Oil Dist:</b> Not available</p> <p><b>Auto Ignition:</b> Not available</p> <p><b>VOC:</b> Not available</p> <p><b>Molecular Formula:</b> Not available</p>
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<b>Section 10: Stability and Reactivity</b>	
Reactivity:	Not classified as a reactivity hazard.
Chemical Stability:	Stable at normal temperatures and pressure.
Possibility of Hazardous Reactions:	<p>Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents.</p> <p>Acetic acid is formed upon contact with water or humid air.</p> <p>When heated to temperatures above 150 °C (300 °F) in the presence of air, trace quantities of formaldehyde may be released.</p> <p>See OSHA formaldehyde standard, 29 CFR 1910.1048</p> <p>Hazardous decomposition products will be formed at elevated temperatures.</p>
Conditions to Avoid:	None known.
Incompatible Materials:	Strong oxidizing materials
Hazardous Decomposition Products:	Upon decomposition, this product emits carbon oxides, silicon oxides, formaldehyde, and metal oxides.

<b>Section 11: Toxicological Information</b>					
<b>Acute Toxicity</b>					
<b>Component Analysis – LD50/LC50</b>					
CAS	Component	Result	Species	Dose	Exposure
7631-86-9	Silicon dioxide	LD50 Oral	Rat	>3300 mg/kg	N/A
		LC50 Inhalation	Rat	>2.08 mg/L	4 hr
		LD50 Dermal	Rabbit	>5000 mg/kg	N/A
64742-46-7	Distillates (petroleum), hydrotreated middle	LD50 Oral	Rat	>5000 mg/kg	N/A
		LC50 Inhalation	Rat	1.78 mg/L	4 hr
		LD50 Dermal	Rat	>2000 mg/kg	N/A
13463-67-7	Titanium dioxide	LD50 Oral	Rat	>10000 mg/kg	N/A
		LC50 Inhalation	Rat	>5000 mg/kg	4 hr
7429-90-5	Aluminum	LD50 Oral	Rat	>5000 mg/kg	N/A

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		LC50 Inhalation	Rat	>0.888 mg/L	4 hr
1333-86-4	Carbon black	LD50 Oral	Rat	>5000 mg/kg	N/A
		LC50 Inhalation	Rat	>0.0046 mg/L	4 hr

**Information on Likely Routes of Exposure**

Inhalation: Not classified based on available information.

Ingestion: Not classified based on available information.

Skin Contact: Not classified based on available information.

Eye Contact: Not classified based on available information.

Immediate Effects: Not classified based on available information.

Delayed Effects: No information is available.

Medical Conditions Aggravated by Exposure: No information is available.

Irritation/Corrosivity Data: Not classified based on available information.

Respiratory Sensitization: Not classified based on available information.

Dermal Sensitization: Not classified based on available information.

Germ Cell Mutagenicity: Not classified based on available information.

Carcinogenicity: Not classified based on available information.

**Component Carcinogenicity**

CAS	Component	Result
13463-67-7	Titanium dioxide	<b>IARC:</b> Group 2B (possibly carcinogenic to humans)
		<b>OSHA:</b> Not present at levels greater than or equal to 0.1% to be identified as a carcinogen or potential carcinogen
		<b>NTP:</b> Not present at levels greater than or equal to 0.1% to be identified as a carcinogen or potential carcinogen
1333-86-4	Carbon Black	<b>IARC:</b> Group 2B (possibly carcinogenic to humans)
		<b>OSHA:</b> Not present at levels greater than or equal to 0.1% to be identified as a carcinogen or potential carcinogen
		<b>NTP:</b> Not present at levels greater than or equal to 0.1% to be identified as a carcinogen or potential carcinogen

Reproductive Toxicity: Not classified based on available information.

Specific Target Organ Toxicity – Single Exposure: No target organs identified.

Specific Target Organ Toxicity – Multiple Exposure: No target organs identified.

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Repeated Exposure:	
Aspiration Hazard:	Not classified based on available information.

<b>Section 12: Ecological Information</b>						
<b>Ecotoxicity</b>						
No information available for the product.						
<b>Component Analysis – Aquatic Toxicity</b>						
CAS	Component	Aquatic	Result	Species	Dose	Exposure
13463-67-7	Titanium dioxide	Fish	LC50	Rainbow trout ( <i>Oncorhynchus mykiss</i> )	>100 mg/L	96 hr
		Invertebrates	EC50	Water flea ( <i>Daphnia magna</i> )	>100 mg/L	48 hr
		Algae	EC50	Marine diatom ( <i>Skeletonema costatum</i> )	>10,000 mg/L	72 hr
		Bacteria	EC50	N/A	>1000 mg/L	3 hr
7429-90-5	Aluminum	Fish	LC50	Rainbow trout ( <i>Oncorhynchus mykiss</i> )	14.6 mg/L	96 hr
		Invertebrates	EC50	Water flea ( <i>Daphnia magna</i> )	>0.135 mg/L	48 hr
		Algae	EC50	Green algae ( <i>Pseudokirchneriella subcapitata</i> )	>0.004 mg/L	72 hr
		Fish (Chronic toxicity)	NOEC	Fathead minnow ( <i>Pimephales promelas</i> )	7.1 mg/L	28 d
1333-86-4	Carbon Black	Fish	LC50	Zebrafish ( <i>Danio rerio</i> )	1000 mg/L	96 hr
		Invertebrates	EC50	Water flea ( <i>Daphnia magna</i> )	>5600 mg/L	24 hr
		Algae	NOEC	Green algae ( <i>Desmodesmus subspicatus</i> )	10,000 mg/L	72 hr
Persistence and Degradability: No information available for the product.						
Bioaccumulative Potential: No information available for the product.						
Mobility in Soil: No information available for the product.						
Biodegradation: No information available for the product.						

<b>Section 13: Disposal Considerations</b>
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Disposal Methods:	Dispose in accordance with all applicable federal, state/regional and local laws and regulations. This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form.
Disposal of Contaminated Packaging:	Dispose of unused product properly. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Component Waste Numbers:	The U.S. EPA has not published waste numbers for this product's components.

<b>Section 14: Transport Information</b>	
<b>International Regulation</b>	
UNRTDG:	Not regulated as a dangerous good.
IATA-DGR:	Not regulated as a dangerous good.
IMDG-Code:	Not regulated as a dangerous good.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not applicable for product as supplied.
<b>Domestic Regulation</b>	
49 CFR:	Not regulated as a dangerous good.

<b>Section 15: Regulatory Information</b>			
<b>US Federal Regulations</b>			
SARA 302 Extremely Hazardous Substances:			
		None contained in product.	
SARA 304:			
		Not applicable.	
SARA 311/312:			
		None known.	
SARA 313:			
		Aluminium (7429-90-5) 1.6%	
TSCA:			
		All components of this product are listed on TSCA Inventory.	
CERCLA Reportable Quantity:			
CAS	Component	Component RQ (lbs)	Calculated Product RQ (lbs)
108-24-7	Acetic anhydride	5000	Exceeds reasonably attainable upper limit.
64-19-7	Acetic acid	5000	Exceeds reasonably attainable upper limit.
<b>US State Regulations</b>			
Pennsylvania Right To Know			
	<b>CAS</b>	<b>Component</b>	<b>Percent</b>
	70131-67-8	Dimethyl siloxane, hydroxy-terminated	70-90%
	7631-86-9	Silicon dioxide	5-10%
	64742-46-7	Distillates (petroleum), hydrotreated middle	5-10%

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1332-37-2	Iron oxide	1-5%
13463-67-7	Titanium oxide	1-5%
7429-90-5	Aluminum	1-5%
64-19-7	Acetic acid	0-0.1%
108-24-7	Acetic anhydride	0-0.1%

**New Jersey Right To Know**

<b>CAS</b>	<b>Component</b>	<b>Percent</b>
70131-67-8	Dimethyl siloxane, hydroxy-terminated	70-90%
7631-86-9	Silicon dioxide	5-10%
64742-46-7	Distillates (petroleum), hydrotreated middle	5-10%
1332-37-2	Iron oxide	1-5%
13463-67-7	Titanium oxide	1-5%
7429-90-5	Aluminum	1-5%
1333-86-4	Carbon Black	0.1-1%

California Proposition 65: This product does not contain any chemicals known by the State of California to cause cancer or reproductive harm.

**Component Analysis – International Inventories**

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
Silicon dioxide	7631-86-9	Yes	DSL	REACH	Yes	Yes	Yes	Yes	Yes	Yes
Distillates (petroleum), hydrotreated middle	64742-46-7	Yes	DSL	REACH	Yes	Yes	Yes	Yes	Yes	Yes
Titanium dioxide	13463-67-7	Yes	DSL	REACH	Yes	Yes	Yes	Yes	Yes	Yes
Aluminum	7429-90-5	Yes	DSL	REACH	Yes	Yes	N/A	Yes	Yes	Yes
Carbon black	1333-86-4	Yes	DSL	REACH	Yes	Yes	Yes	Yes	Yes	Yes

**Section 16: Other Information**

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 NFPA Ratings:

Health: 1  
 Fire: 1  
 Reactivity: 0



Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS III:

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = Not Significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, \* = Chronic

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## Key/Legend:

AICS (Australia); DSL (Canada); IECSC (China); REACH (European Union); ENCS (Japan); ISHL (Japan); KECI (Korea); NZIoC (New Zealand); PICCS (Philippines); TCSI (Taiwan); TSCA (USA); 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 Contaminates; OSHA Z-3 – USA. Occupational Exposure Limits (OSHA) – Table Z-3 Mineral Dusts; 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

## Disclaimer:

The information contained herein is based on data considered accurate which has been obtained from other companies and organizations.

**End of Document**