CRL WATER CLEAR SILICONE SEALANT

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Brand Name: Water Clear Silicone Sealant
Catalog Numbers: WCS5, WCS1
Recommended Use: Sealant - Other
Uses advised against: No information available

Company Contact Information

C.R. Laurence Co., Inc.
2503 E. Vernon Ave.
Los Angeles, CA 90058-1826
Telephone: 323-588-1281

Emergency Telephone Number

CHEMTREC: 1-800-424-9300 (24 hours)

2. HAZARDS IDENTIFICATION

GHS Classification: This material is not classified according to GHS

Hazards: This product reacts with water, moisture or humid air to evolve following compounds:
Acetic Acid

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Mixture
Chemical Nature: Silicone mixture

Formula Components

CAS Number	*Wt %	Component Name
Proprietary	15 - 20	Crystalline free silica
Proprietary	5 - 10	Methylphenylpolysiloxane
Proprietary	1 - 5	Acetoxysilane
67-56-1	0.1- 0.5	Methanol

Decomposition Components

CAS Number	*Wt %	Component Name
64-19-7	N/A	Acetic Acid

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*All components are listed on ENCS under CSCL

4. FIRST AID MEASURES

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

Eye Contact
Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing and get medical attention if irritation develops and persists.

Skin Contact
Wash skin with soap and water. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops and persists.

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

Ingestion
Rinse mouth. Get medical attention immediately. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into lungs.

Notes to Physician
Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media
Water fog, foam, dry chemical powder, Carbon Dioxide (CO_2).

Extinguishing Media to Avoid
None

Specific Hazards
By heating and fire, harmful vapors/gases may be formed.

Protection of Fire-Fighters
Fire-fighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.

Special Fire Fighting Procedure
Move containers from fire area if you can do so without risk.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency measures
Wear appropriate personal protective equipment.

Environmental precautions
Prevent further leakage or spillage if safe to do so.

Methods or materials for containment and cleaning up
Eliminate sources of ignition. Large spills: Dike the spilled material. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

Technical measures (e.g. local and general ventilation)
Provide adequate ventilation.

Safe Handling Advice
Use care in handling/storage. Do not breathe mist or vapor. Avoid prolonged exposure.

Contact Avoidance Measures
Refer to Section 10: stability and reactivity.

Hygiene Measures
Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

Safe Storage Conditions
Keep container tightly closed. Store in a cool, dry place out of direct sunlight.

Safe Packaging Materials
Keep in original container.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Occupational exposure limits

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Japan. OEL's - ISHL. (Workplace Environment Assessment Standards)

Components	Type	Value
METHANOL (CAS 67-56-1)	TLV	200 ppm

Japan. OEL's - JSOH (Japan Society of Occupational Health: Recommendation of Occupational Exposure Limits)

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	260 mg/m^3
		200 ppm

Decomposition	Type	Value
Acetic acid (CAS 64-19-7)	TWA	25 mg/m^3
		10 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm

US. ACGIH Threshold Limit Values

Decomposition	Type	Value
Acetic acid (CAS 64-19-7)	STEL	15 ppm
	TWA	10 ppm

Biological limit values

Japan. BELs - JSOH (Japan Society of Occupational Health: Recommendation of Occupational Exposure Limits Based on Biological Monitoring)

Components	Value	Determinant	Specimen	Sampling Time
Methanol (CAS 67-56-1)	20 mg/l	Methanol	Urine	*

* - For sampling details, please see the source document.

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*

Exposure guidelines

Japan JSOH OEL's: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

US. ACGIH Threshold Limit Values

Methanol (CAS 67-56-1) Can be absorbed through the skin.

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Engineering Controls
Provide adequate general and local exhaust ventilation. Provide eyewash station. Pay attention to ventilation such as local exhaust, mechanical and/or door open for at least 24 hours after application.

PERSONAL PROTECTIVE EQUIPMENT

Eye Protection
Wear safety glasses with side shields (or goggles).

Hand Protection
Wear protective gloves.

Respiratory Protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Skin and Body Protection
Wear suitable protective clothing.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical Form: Paste, solid
Color: Colorless, transparent
Odor: Acetic acid
Odor Threshold: No information available

Property	Values	Remarks Method
pH	UNKNOWN	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	>143.6°F (>62°C)	Closed cup
Evaporation Rate	<1	(Butyl Acetate=1)
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	Negligible	(25°C)
Vapor density	>1	None known
Specific Gravity	1.05	(25°C)
Water Solubility	Not soluble	None known

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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	No data available	
Oxidizing Properties	No data available	

Other Information

Softening Point	No data available
VOC Content (g/L)	< 47 (calculated)
Particle Size	No data available
Particle Size Distribution	No data available

10. STABILITY AND REACTIVITY

Reactivity
Reacts with water, moisture or humid air.

Chemical stability
Stable under recommended conditions.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to avoid
None specific.

Incompatible materials
Strong oxidizing agents. Water or moisture.

Hazardous Decomposition Products
Water, moisture, or humid air can cause acetic acid. Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds; Silicon dioxide; Formaldehyde.

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11. TOXICOLOGICAL INFORMATION

COMPONENTS	ACUTE	SPECIES	TEST RESULTS
Acetoxysilane (CAS Proprietary)	Oral LD50	Rat	2187 mg/kg
			1550 mg/kg
Methanol (CAS# 67-56-1)	Dermal LD50	Rabbit	15,800 mg/kg
	Inhalation LC50	Rat	64,000 ppm, 4 hrs
			87.5 mg/l, 6 hrs
	Oral LD50	Mouse	7300 mg/kg
		Rabbit	14.4 g/kg
		Rat	5628 mg/kg
Methylphenylpolysiloxane (CAS Proprietary)	Dermal LD50	Rat	> 2000 mg/kg
	Oral LD50	Rat	> 2000 mg/kg
DECOMPOSITION			
Acetic Acid (CAS# 64-19-7)	Dermal LD50	Rabbit	1060 mg/kg
	Inhalation LC50	Guinea pig	5000 ppm, 1 hour
		Mouse	5620 ppm, 1 hour
		Rat	11.4 mg/l, 4 hours
	Oral LD50	Mouse	4960 mg/kg
		Rabbit	1200 mg/kg
		Rat	3.31 g/kg

Skin corrosion/irritation
In contact with moisture, the substance produces corrosive acetic acid which has no corrosion nor irritancy below 10% in mixture. [Acetoxysilane] Causes severe skin burns and eye damage. [Acetic Acid; decomposed product]

Serious eye damage/eye irritation
Causes serious eye damage. [Acetic Acid; decomposed product] Causes serious eye irritation. [Methanol]

Serious eye damage/eye irritation
May damage fertility or the unborn child. [Methanol]

Specific target organ toxicity – Single exposure
May cause damage to the following organs: Central nervous system, Systemic toxicity, Visual organ, Narcotic effects. [Methanol] Blood, Respiratory system. [Acetic acid; decomposed product]

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Specific target organ toxicity – Repeated exposure

May cause damage to the following organs through prolonged or repeated exposure: Central nervous system, Visual organs. [Methanol]

Other information
This product reacts with water, moisture or humid air to evolve following compounds: Acetic acid

12. ECOLOGICAL CONSIDERATIONS

Chemical Name	Aquatic	Test	Species	Test Results
Methanol (CAS# 67-56-1)	Crustacea	EC50	Water Flea (Daphnia magna)	>10,000 mg/l, 48 hrs
	Fish	LC50	Fathead minnow (Pimpephales promelas)	>100 mg/l, 96 hrs
Methylphenylpolysiloxane (CAS Proprietary)		IC50	Inhibition of microbial activity	> 1000 mg/l, 3 hrs
		NOEC	Inhibition of microbial activity	1000 mg/l, 3 hrs
	Algae	EbC50	Algae	> 100 mg/l, 72 hr biomass
		ErC50	Algae	> 100 mg/l, 72 hr growth
		NOEC	Algae	100 mg/l, 72 hrs growth/biomass
	Crustacea	EC50	Daphnia	> 100 mg/l, 48 hrs
		NOEC	Daphnia	100 mg/l, 48 hrs
	Fish	LC100	Fish	> 100 mg/l, 96 hrs
		LC50	Fish	> 100 mg/l, 96 hrs
		NOEC	Fish	100 mg/l, 96 hrs

Decomposition

Chemical Name	Aquatic	Test	Species	Test Results
Acetic Acid (CAS# 64-19-7)	Crustacea	EC50	Water Flea (Daphnia magna)	65 mg/l, 48 hrs
	Fish	LC50	Bluegill (Lepomis macrochirus)	75 mg/l, 96 hrs

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Ecotoxicity
May cause long lasting harmful effects to aquatic life. [Methylphenylpolysiloxane]

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Local Disposal Regulations
Not hardening substance: Incinerate. Incinerator should be appropriately equipped for silica and other fine powder which the product will generate in incineration. Workers should wear appropriate personal protective equipment(s) such as respirator. Hardening substance: Bury or incinerate. Incinerator should be appropriately equipped for silica and other fine powder which the product will generate in incineration. Workers should wear appropriate personal protective equipment(s) such as respirator. Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Dispose of contents/container in accordance with local/regional/national/international regulations.

14. TRANSPORT INFORMATION

International regulations

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not available.

National regulations
Follow regulation in section 15 for domestic transportation.

15. REGULATORY INFORMATION

Industrial Safety and Health Act

Specified substances regulation

Class 1 designated chemical substances
Not regulated.

Class 2 designated chemical substances
Not regulated.

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Class 3 designated chemical substances
Not regulated.

Organic solvent regulation

Class 1 organic solvents
Not regulated.

Class 2 organic solvents
Not regulated.

Class 3 organic solvents
Not regulated.

Notifiable substances
Methanol 0.10 - 0.50 %
SILICA 15 - 20 %

Labeling substances
Not applicable

Poisonous and Deleterious Substances Control Act

Specified poisonous substances
Not regulated.

Poisonous substances
Not regulated.

Deleterious substances
METHANOL

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Class I specified chemical substances
Not regulated.

Class II specified chemical substances
Not regulated.

Monitoring chemical substances
Not regulated.

Priority Assessment Chemical Substances (PACs)
METHANOL

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Law concerning Pollutant Release and Transfer Register

Specified class 1 substances (substance name, ordinance number and content)
Not applicable

Class 1 substances (substance name, ordinance number and content)
Not applicable

Class 2 substances (substance name, ordinance number and content)
Not applicable

Fire Service Act
Designated combustible material (Combustible solids)

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule
Not regulated.

Air Law, Enforcement Rule
Not regulated.

Explosives Control Act
Not applicable.

High Pressure Gas Safety Act
Not applicable.

Act on Prevention of Marine Pollution and Maritime Disaster
Not applicable.

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16. OTHER INFORMATION

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.