

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 7/27/2022 Revision date: 7/27/2022 Supersedes: 9/25/2018

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : Ladlelock 50S Dip W

CAS-No. : Mixture Product code : 3065

Other means of identification : Alumina-Silicate Wet Air Set Mortar-Slurry

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Refractory Recommended use : Industrial use

1.3. Supplier

Resco Products, Inc.
One Robinson Plaza, Suite 300
6600 Steubenville Pike
Pittsburgh, PA, 15205
United States
412-494-4491

SDS@RescoProducts.com - WWW.RescoProducts.com

1.4. Emergency telephone number

Emergency number : EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300

Outside USA & Canada +1 703-741-5970

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 2 H315 Causes skin irritation Serious eye damage/eye irritation Category 2B H320 Causes eye irritation

Carcinogenicity Category 1A H350 May cause cancer (After drying or heating, Inhalation)

Full text of H statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)





Signal word (GHS US)

Hazard statements (GHS US) : H315 - Causes skin irritation

H319 - Causes serious eye irritation

H350 - May cause cancer (After drying or heating, Inhalation)

Precautionary statements (GHS US) P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear eye protection, protective gloves, protective clothing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Ethylene glycol is toxic to humans.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions	CAS-No.: 1344-09-8	10 – 20	Skin Irrit. 2, H315
			Eye Irrit. 2B, H320
quartz	CAS-No.: 14808-60-7	5 – 10	Carc. 1A, H350
ethylene glycol	CAS-No.: 107-21-1	1 – 5	Not classified

Full text of hazard classes and H-statements : see section 16

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SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Gently wash with plenty of soap and water. Take off contaminated clothing and wash it before

reuse.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

: After drying or heating. May cause cancer by inhalation. Danger of serious damage to health by

prolonged exposure through inhalation.

Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

Symptoms/effects after inhalation

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : No unsuitable extinguishing media known.

5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering

environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : If spilled, may cause the floor to be slippery.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stop release.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Plug the leak, cut off the supply.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes. Avoid contact with skin.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ladlelock 50S Dip W (Mixture)

No additional information available

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sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)		
No additional information available		
ethylene glycol (107-21-1)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	25 ppm (Vapor fraction)	
ACGIH OEL STEL	10 mg/m³ (Inhalable fraction, Aerosol only)	
ACGIH OEL STEL [ppm]	50 ppm (Vapor fraction)	
quartz (14808-60-7)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	0.025 mg/m³ (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)	
USA - OSHA - Occupational Exposure Limits		
Local name	Silica, crystalline quartz, respirable dust	
OSHA PEL (TWA) [1]	0.05 mg/m³ respirable dust	
Remark (OSHA) (3) See Table Z-3.		
8.2. Appropriate engineering controls		
Appropriate engineering controls	: Emergency eye wash fountain with clean water. Dust on tear out. Provide adequate ventilation to	

minimize dust concentrations.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection.	
Hand protection:	

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Decomposition temperature

Viscosity, kinematic

After air drying or heating. Dust on tear out. Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid Appearance Slurry. Color brown Odor earthy Odor threshold Not applicable Not applicable : > 10 Melting point > 3000 °F Freezing point ≈ 20 °F Boiling point Not applicable Critical temperature Not applicable Critical pressure Not applicable Flash point Not applicable Relative evaporation rate (butyl acetate=1) Not applicable Relative evaporation rate (ether=1) Not applicable Flammability (solid, gas) None Non flammable. Not applicable Vapor pressure Vapor pressure at 50 °C Not applicable Relative vapor density at 20 °C No data available Relative density ≈ 1.2 Solubility No data available Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature Not applicable

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No data available

Not Applicable

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Viscosity, dynamic : Not Applicable **Explosion limits** Not applicable Not applicable Explosive properties No data available Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Air Setting.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) Not classified Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified

sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)		
LD50 oral rat > 2000 mg/kg (Rat, Oral)		
ethylene glycol (107-21-1)		
LD50 oral rat 7712 mg/kg body weight (according to BASF-internal standards, Rat, Male / female, Experimental value, Aqueous solution, Oral, 7 day(s))		
LD50 dermal > 3500 mg/kg body weight (Mouse, Male / female, Experimental value, Dermal)		
LC50 Inhalation - Rat > 2.5 mg/l (6 h, Rat, Male / female, Experimental value, Inhalation (aerosol))		

> 2.5 mg/l (6 h, Rat, Male / female, Experimental value, Inhalation (aerosol))

Skin corrosion/irritation Causes skin irritation.

pH: > 10

print to		
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)		
рН	11 – 13	
ethylene glycol (107-21-1)		
pH	No data available in the literature	
quartz (14808-60-7)		
pH 6-7		
Sorious ava damaga/irritation . Causes ava irritation		

Serious eye damage/irritation : Causes eye irritation.

pH: > 10

sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)		
рН	11 – 13	
ethylene glycol (107-21-1)		
pH No data available in the literature		
quartz (14808-60-7)		
pH 6-7		

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Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	: Not classified: Not classified: May cause cancer (After drying or heating, Inhalation).	
quartz (14808-60-7)		
IARC group	1 - Carcinogenic to humans	
Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard Viscosity, kinematic	 Not classified Not classified Not classified Not classified Not pplicable 	
ethylene glycol (107-21-1)		
Viscosity, kinematic	No data available in the literature	
Potential Adverse human health effects and symptoms Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	 Based on available data, the classification criteria are not met. After drying or heating. May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation. Causes skin irritation. Causes serious eye irritation. 	
SECTION 12: Ecological information		
12.1. Toxicity		
sodium silicate, alkaline 1.6/2.6, 35%≤cond	c≤55%, aqueous solutions (1344-09-8)	
LC50 - Fish [1]	210 mg/l (96 h, Brachydanio rerio, Pure substance)	
EC50 - Crustacea [1]	216 mg/l (96 h, Daphnia magna, Pure substance)	
ethylene glycol (107-21-1)		
LC50 - Fish [1]	> 72860 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)	
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, Daphnia magna, Static system, Fresh water, Experimental value)	
12.2. Persistence and degradability		
Ladlelock 50S Dip W (Mixture)		
Persistence and degradability	Not established.	
sodium silicate, alkaline 1.6/2.6, 35%≤cond	c≤55%, aqueous solutions (1344-09-8)	
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD) ThOD	Not applicable Not applicable	
BOD (% of ThOD)	Not applicable	
ethylene glycol (107-21-1)	The approach	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.47 g O₂/g substance	
Chemical oxygen demand (COD)	1.24 g O ₂ /g substance	
ThOD	1.29 g O ₂ /g substance	
quartz (14808-60-7)	Not applicable	
Persistence and degradability Biochemical oxygen demand (BOD)	Not applicable. Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
12.3. Bioaccumulative potential		
Ladlelock 50S Dip W (Mixture)		
Bioaccumulative potential	Not established.	
sodium silicate, alkaline 1.6/2.6, 35%≤con	c≤55%, aqueous solutions (1344-09-8)	
Bioaccumulative potential	No bioaccumulation data available.	

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ethylene glycol (107-21-1)			
Partition coefficient n-octanol/water (Log Pow)	-1.36 (Experimental value)		
Bioaccumulative potential	Not bioaccumulative.		
quartz (14808-60-7)			
Bioaccumulative potential	No data available.		
12.4. Mobility in soil			
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)			
Ecology - soil	No (test) data on mobility of the component(s) available.		
ethylene glycol (107-21-1)			
Surface tension	48.4 mN/m (20 °C)		
Ecology - soil	Highly mobile in soil.		
12.5. Other adverse effects			
Effect on the global warming :	None known		
Other information :	Avoid release to the environment.		

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations

Ecology - waste materials

: Dispose in a safe manner in accordance with local/national regulations.

: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

ethylene glycol (107-21-1)	
Subject to reporting requirements of United States SAR	A Section 313
CERCLA RQ	5000 lb
Note	This information must be included in all SDS's that are copied and distributed for this material.

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

Ladlelock 50S Dip W (Mixture)

U.S California - Proposition 65 - Other	This product contains crystalline silica, a chemical known to the state of California to cause cancer.
information	This product contains ethylene glycol a chemical known to the State of California to cause birth
	defects or other reproductive harm. For more information go to WWW.P65Warnings.ca.gov

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Ladlelock 50S Dip					
ethylene glycol (10					
U.S California - Proposition 65 - Other		This product contains ethylene glycol a chemical known to the State of California to cause birth			
information		defects or other reproductive harm.			
quartz (14808-60-7)					
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk	Maximum allowable
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)	dose level (MADL)
Carcinogens List	Developmental	Reproductive Toxicity -	Reproductive Toxicity		
-	Toxicity	Female	- Male		
Yes	No	No	No		
Component		State or local regulation	ns		
ethylene glycol (107-21-1) U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazard		ow Hazardous Substand			
	·	List; U.S Pennsylvania -	RTK (Right to Know) List	. •	
Quartz (14808-60-7)		U.S New Jersey - Right to Know Hazardous Substance List			

SECTION 16: Other information

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Other information : Report language name. English. In the event of any conflict between English and other language

	versions, the English version shall prevail.
Full text of H-phrases	

I dil text of II-piliases	
H315	Causes skin irritation
H320	Causes eye irritation
H350	May cause cancer
0-fate Data Object (0D0) 110A	

Safety Data Sheet (SDS), USA

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