

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 6/1/2016 Revision date: 7/9/2025 Supersedes: 7/27/2022

## **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture

Product name : Lid Seal LW2 Winter

CAS-No. : Mixture Product code : 4451

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

RHI Magnesita

T 412-494-4491

One Robinson Plaza, Suite 300

6600 Steubenville Pike Pittsburgh, PA, 15205 United States

Resco SDS.TDS@rhimagnesita.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

Flammable liquids, Category 3

Acute toxicity (oral), Category 4

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2B

Haze

Haze

Haze

Harmful if swallowed.

Causes skin irritation.

Causes eye irritation.

Causes eye irritation

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

Specific target organ toxicity – Single exposure, Category 1 H370 Causes damage to organs.

Full text of H-statements: see section 16

## 2.2. GHS Label elements, including precautionary statements

#### **GHS US labelling**

Hazard pictograms (GHS US)







Signal word (GHS US) : Danger

Hazard statements (GHS US) : H226 - Flammable liquid and vapour.

H302 - Harmful if swallowed. H315 - Causes skin irritation. H320 - Causes eye irritation

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

H370 - Causes damage to organs.

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

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P243 - Take precautionary measures against static discharge.
P260 - Do not breathe vapours, After drying or heating, dust.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear eye protection, protective gloves, protective clothing.
P301+P312 - If swallowed: Call a POISON CENTER if you feel unwell.

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

contact lenses, if present and easy to do. Continue rinsing.

P330 - Rinse mouth.

P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P370+P378 - In case of fire: Use media other than water to extinguish.

## 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Although methanol is practically non-toxic to animals, it is very toxic to humans.

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## 2.4. Unknown acute toxicity (GHS US)

No additional information available

## **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
quartz	CAS-No.: 14808-60-7	10 – 20	Carc. 1A, H350
methanol	CAS-No.: 67-56-1	5 – 10	Flam. Liq. 2, H225
			Acute Tox. 3 (Oral), H301
			Acute Tox. 3 (Dermal), H311
			Acute Tox. 3 (Inhalation), H331
			STOT SE 1, H370
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions	CAS-No.: 1344-09-8	1 – 5	Skin Irrit. 2, H315
			Eye Irrit. 2B, H320

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

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

symptoms
Symptoms/effects after inhalation : After drying or heating. Danger of serious damage to health by prolonged exposure through

inhalation. May cause cancer by 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

## **SECTION 5: Fire-fighting measures**

## 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder.
Unsuitable extinguishing media : Do not use a heavy water stream.

## 5.2. Specific hazards arising from the chemical

Fire hazard : Flammable liquid and vapour. Contains methanol in excess of LEL. It is unlikely that combustion

will be sustained due to high water and clay content.

Explosion hazard : Prolonged exposure to fire may cause containers to rupture/explode.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Prevent fire fighting water from

entering the 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

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.

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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 Section 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.

Strong bases. Strong acids. Incompatible products

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

methanol (67-56-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	200 ppm
ACGIH® TLV® STEL	250 ppm
quartz (14808-60-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® 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

## Remark (OSHA) 8.2. Appropriate engineering controls

Emergency eye wash fountain with clean water. Dust on tear out. Provide adequate ventilation to Appropriate engineering controls minimize dust concentrations.

0.05 mg/m3 respirable dust

(3) See Table Z-3.

## 8.3. Individual protection measures/Personal protective equipment

## Personal protective equipment:

Avoid all unnecessary exposure.

# Hand protection:

Wear protective gloves.

## Eye protection:

Local name OSHA PEL TWA

Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing

## Respiratory protection:

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. Colour light brown Odour alcohol odour Odour threshold No data available

рΗ > 10 > 2000 °F Melting point ≈ 20 °F Freezing point Boiling point No data available

≈ 120 °F Flash point

Relative evaporation rate (butylacetate=1) : No data available

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Flammability (solid, gas) : Not flammable.

Vapour pressure : No data available
Relative vapour density at 20°C : No data available

Relative density :  $\approx 1.5$ 

Solubility : Moderately soluble in water.

Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity, kinematic Not Applicable Viscosity, dynamic No data available Explosive limits No data available Explosive properties No data available No data available Oxidising properties

#### 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) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

#### **Lid Seal LW2 Winter (Mixture)**

ATE US (oral) 500 mg/kg bodyweight

#### sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)

LD50 oral rat > 2000 mg/kg (Rat, Oral)

#### methanol (67-56-1)

ATE US (dust, mist)

LD50 oral rat	1187 – 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Experimental value, 15-35 % aqueous solution, Oral, 7 day(s))
LD50 dermal rabbit	17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
LC50 Inhalation - Rat	128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
ATE US (oral)	100 mg/kg bodyweight
ATE US (dermal)	300 mg/kg bodyweight
ATE US (gases)	700 ppmv/4h
ATE US (vapours)	3 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

pH: > 10

0.5 mg/l/4h

## sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)

pH 11 – 13

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water, Experimental value, Lethal)		
guartz (14808-60-7) pH   6 − 7 Serious eye damage/irritation   : Causes eye irritation. pH: > 10  sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8) pH   11 − 13  methanol (67-56-1) pH   No data available in the literature  quartz (14808-60-7) pH   6 − 7  Respiratory or skin sensitisation   : Not classified Germ cell mutagenicity   : Not classified Germ cell mutagenicity   : May cause cancer (After drying or heating, Inhalation).  quartz (14808-60-7)    IARC group   1 − Carcinogenic to humans   Reproductive toxicity   : Not classified   : Causes damage to organs.  methanol (67-56-1)  STOT-single exposure   : Causes damage to organs.  methanol (67-56-1)  STOT-single exposure   : Not classified   :	methanol (67-56-1)	
pH   6 - 7  Serious eye damage/irritation   Causes eye irritation. pH: > 10  sodium silicate, alkaline 1.6/2.6, 35%SconcS55%, aqueous solutions (1344-09-8) pH   11 - 13  methanol (67-56-1) pH   No data available in the literature  quartz (14808-60-7) pH   6 - 7  Respiratory or skin sensitisation   Not classified	pH	No data available in the literature
Serious eye damage/irritation  : Causes eye irritation.  pH	quartz (14808-60-7)	
pH: > 10  sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)  pH	На	6 – 7
methanol (67-56-1) pH   No data available in the literature  quartz (14808-60-7) pH   6 - 7 Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : May cause cancer (After drying or heating, Inhalation).  quartz (14808-60-7) LARC group   1 - Carcinogenic to humans Reproductive toxicity : Not classified STOT-single exposure : Causes damage to organs.  methanol (67-56-1) STOT-single exposure   Causes damage to organs.  STOT-respirate dexposure : Not classified STOT-respirate exposure : Not classified Viscosity, kinematic : Not classified Viscosity, kinematic : Not classified Viscosity, kinematic : Saed on available data, the classification criteria are not met. symptoms/effects after inhalation : After drying or heating. Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.  Symptoms/effects after eye contact : Causes skin irritation.  SECTION 12: Ecological information  12.1. Toxicity  sodium silicate, alkaline 1.6/2.6, 35% ≤conc≤55%, aqueous solutions (1344-09-8) LC50 - Fish [1]		
methanol (67-56-1) pH No data available in the literature  quartz (14808-60-7) pH 6-7 Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : May cause cancer (After drying or heating, Inhalation).  quartz (14808-60-7)  IARC group 1- Carcinogenic to humans Reproductive toxicity : Not classified STOT-single exposure : Causes damage to organs.  methanol (67-56-1) STOT-single exposure   Causes damage to organs.  STOT-repeated exposure   Not classified   Not dassified   Not applicable   Sased on available data, the classification criteria are not met. Symptoms/effects after inhalation   After drying or heating. Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.  Sprection 12: Ecological information   SECTION 12: Ecological information   12.1. Toxicity   Sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)   LC50 - Fish [1]   210 mg/l (96 h, Brachydanio rerio, Pure substance)   methanol (67-56-1)   LC50 - Fish [1]   15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)   EC50 - Crustacea [1]   18260 mg/l (6ECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, 8e	sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55	%, aqueous solutions (1344-09-8)
pH No data available in the literature    Quartz (14808-60-7)	рН	11 – 13
pH   6 − 7 Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : May cause cancer (After drying or heating, Inhalation).  quartz (14808-60-7)  IARC group   1 - Carcinogenic to humans Reproductive toxicity : Not classified STOT-single exposure : Causes damage to organs.  methanol (67-56-1) STOT-single exposure   Causes damage to organs.  STOT-repeated exposure   Not classified Aspiration hazard : Not classified Viscosity, kinematic : Not classified   Not Applicable   Symptoms/effects after inhalation : After drying or heating, Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.  Symptoms/effects after eye contact : Causes serious eye irritation.  SECTION 12: Ecological information  12.1. Toxicity  sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8) LC50 - Fish [1]	methanol (67-56-1)	
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Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : May cause cancer (After drying or heating, Inhalation).  quartz (14808-60-7)  IARC group	quartz (14808-60-7)	
Germ cell mutagenicity : Not classified Carcinogenicity : May cause cancer (After drying or heating, Inhalation).  quartz (14808-60-7)  IARC group	рН	6 – 7
I - Carcinogenic to humans	Germ cell mutagenicity : I	Not classified
Reproductive toxicity : Not classified STOT-single exposure : Causes damage to organs.    Methanol (67-56-1)	quartz (14808-60-7)	
methanol (67-56-1)  STOT-single exposure   Causes damage to organs.  STOT-repeated exposure   Causes damage to organs.  STOT-repeated exposure   Not classified   Aspiration hazard   Stot classified   Aspiration hazard   S	IARC group	1 - Carcinogenic to humans
STOT-single exposure  Causes damage to organs.  STOT-repeated exposure  STOT-repeated exposure  Aspiration hazard  Stot classified  Viscosity, kinematic  Not classified  Viscosity, kinematic  Not Applicable  Potential adverse human health effects and symptoms  Symptoms/effects after inhalation  After drying or heating. Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.  Symptoms/effects after eye contact  SECTION 12: Ecological information  12.1. Toxicity  Sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)  LC50 - Fish [1]  210 mg/l (96 h, Brachydanio rerio, Pure substance)  EC50 - Crustacea [1]  15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)  EC50 - Crustacea [1]  18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Se	1	
STOT-repeated exposure  Aspiration hazard  Aspiration hazard  Stot classified  Stot classi	methanol (67-56-1)	
Aspiration hazard  Viscosity, kinematic  Potential adverse human health effects and symptoms  Symptoms/effects after inhalation  Symptoms/effects after skin contact  Symptoms/effects after eye contact  Symptoms/effects after eye contact  SECTION 12: Ecological information  12.1. Toxicity  sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)  LC50 - Fish [1]  210 mg/l (96 h, Daphnia magna, Pure substance)  methanol (67-56-1)  LC50 - Fish [1]  15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)  EC50 - Crustacea [1]  18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Se	STOT-single exposure	Causes damage to organs.
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after eye contact SECTION 12: Ecological information  12.1. Toxicity  sodium silicate, alkaline 1.6/2.6, 35%≤conc≤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)  methanol (67-56-1)  LC50 - Fish [1]  15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)  EC50 - Crustacea [1]  18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Se	Aspiration hazard : I Viscosity, kinematic : I Potential adverse human health effects and symptoms Symptoms/effects after inhalation : I	Not classified Not Applicable Based on available data, the classification criteria are not met.  After drying or heating. Danger of serious damage to health by prolonged exposure through
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤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)  methanol (67-56-1)  LC50 - Fish [1] 15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)  EC50 - Crustacea [1] 18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Se	Symptoms/effects after skin contact : ( Symptoms/effects after eye contact : (	Causes skin irritation.
LC50 - Fish [1]  210 mg/l (96 h, Brachydanio rerio, Pure substance)  EC50 - Crustacea [1]  216 mg/l (96 h, Daphnia magna, Pure substance)  methanol (67-56-1)  LC50 - Fish [1]  15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)  EC50 - Crustacea [1]  18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Se	12.1. Toxicity	
EC50 - Crustacea [1]  216 mg/l (96 h, Daphnia magna, Pure substance)  methanol (67-56-1)  LC50 - Fish [1]  15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)  EC50 - Crustacea [1]  18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Se	sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55	%, aqueous solutions (1344-09-8)
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water, Experimental value, Lethal)  EC50 - Crustacea [1]	methanol (67-56-1)	
	LC50 - Fish [1]	15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)
	EC50 - Crustacea [1]	18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, Locomotor effect)
EC50 96h - Algae [1]  22000 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Sta system, Fresh water, Experimental value, Growth rate)	EC50 96h - Algae [1]	22000 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)
12.2. Persistence and degradability	12.2. Persistence and degradability	
Lid Seal LW2 Winter (Mixture)	Lid Seal LW2 Winter (Mixture)	
Persistence and degradability Not established.	Persistence and degradability	Not established.
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)	sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55	%, aqueous solutions (1344-09-8)
Persistence and degradability Biodegradability: not applicable.	Persistence and degradability	Biodegradability: not applicable.

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Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
methanol (67-56-1)	
Persistence and degradability	Readily biodegradable in the soil, Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.6 − 1.12 g O₂/g substance
Chemical oxygen demand (COD)	1.42 g O <sub>2</sub> /g substance
ThOD	1.5 g O <sub>2</sub> /g substance
quartz (14808-60-7)	
Persistence and degradability	Not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
2.3. Bioaccumulative potential	
Lid Seal LW2 Winter (Mixture)	
Bioaccumulative potential	Not established.
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤	
Bioaccumulative potential	No bioaccumulation data available.
methanol (67-56-1)	
3CF - Fish [1]	1 – 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	-0.77 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<u> </u>	
quartz (14808-60-7)	No data available
Bioaccumulative potential	No data available.
2.4. Mobility in soil	FF0/
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤	
Ecology - soil	No data available.
methanol (67-56-1)	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	-0.89 – -0.21 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.
2.5. Other adverse effects	
S S	None known
Other information	Avoid release to the environment.
SECTION 13: Disposal considerations	
73.1. Disposal methods Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.
	Avoid release to the environment.

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## 14.1. UN number

UN-No. (DOT) UN1230 UN-No. (TDG) Not regulated UN-No. (IMDG) Not regulated UN-No. (IATA) Not regulated

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) Methanol Proper Shipping Name (TDG) Not regulated Proper Shipping Name (IMDG) Not regulated Proper Shipping Name (IATA) Not regulated

## 14.3. Transport hazard class(es)

Transport hazard class(es) (DOT) : 3 (6.1) Hazard labels (DOT) : 3, 6.1





**TDG** 

Transport hazard class(es) (TDG) : Not regulated **IMDG** Transport hazard class(es) (IMDG) : Not regulated **IATA** Transport hazard class(es) (IATA) : Not regulated

#### 14.4. Packing group

Packing group (DOT)

Packing group (TDG) Not regulated Packing group (IMDG) Not regulated Packing group (IATA) Not regulated

## 14.5. Environmental hazards

Other information No supplementary information available.

UN1230

## 14.6. Special precautions for user

UN-No. (DOT)

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite DOT Special Provisions (49 CFR 172.102)

(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59

F) and 50 C (122 F), respectively.

DOT Packaging Exceptions (49 CFR 173.xxx) 150 DOT Packaging Non Bulk (49 CFR 173.xxx) 202 DOT Packaging Bulk (49 CFR 173.xxx) 242 DOT Quantity Limitations Passenger aircraft/rail (49 1 L CFR 173.27) : 60 L

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

**DOT Vessel Stowage Location** : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

**DOT Vessel Stowage Other** 40 - Stow "clear of living quarters"

Not regulated **IMDG** Not regulated **IATA** Not regulated

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

Not applicable

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

1110	I MAIO MAIL . C.	/B#1 4
i id Seai	LW2 Winter	(WIIXTURE)

Note This product contains Methanol CAS 67-56-1 subject to the reporting rules.

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

#### methanol (67-56-1)

Subject to reporting requirements of United States SARA Section 313

CERCLA RQ 5000 lb

## 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

## **Lid Seal LW2 Winter (Mixture)**

U.S California - Proposition 65 - Other information	This product contains crystalline silica, a chemical known to the state of California to cause
cancer. For more information go to WWW.P65Warnings.ca.gov	



This product can expose you to chemicals including quartz, which is known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance 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 the English and other

language versions, the English version shall prevail.

Full text of h	nazard classes and H-statements
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H320	Causes eye irritation
H331	Toxic if inhaled.
H350	May cause cancer.
H370	Causes damage to organs.

Safety Data Sheet (SDS), USA

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein, however, RHI Magnesita makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.

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