

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/15/2015 Revision date: 7/9/2025 Supersedes: 7/27/2022

SECTION 1: Identification	
1.1. Identification	
Product form Product name CAS-No. Product code Other means of identification	: Mixture : Lid Seal Winter : Mixture : 3280 : Alumina-Silicate Wet Air Set Mortar-Slurry
1.2. Recommended use and restrictions or	
Use of the substance/mixture Recommended use	: Refractory : Industrial use
1.3. Supplier RHI Magnesita One Robinson Plaza, Suite 300 6600 Steubenville Pike Pittsburgh, PA, 15205 United States T 412-494-4491 <u>Resco_SDS.TDS@rhimagnesita.com</u> - <u>WWW.Resco</u>	:oProducts.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 mix	ture
GHS-US classification Flammable liquids, Category 3 Acute toxicity (oral), Category 4 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2B Carcinogenicity, Category 1A Specific target organ toxicity – Single exposure, Ca Full text of H-statements: see section 16	H226Flammable liquid and vapour.H302Harmful if swallowed.H315Causes skin irritation.H320Causes eye irritationH350May cause cancer (After drying or heating, Inhalation).tegory 1H370Causes damage to organs.
2.2. GHS Label elements, including precau	tionary statements
GHS US labelling Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US)	 Danger 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. P370+P378 - In case of fire: Use media other than water to extinguish.
2.3. Other hazards which do not result in c	
2.3. Other hazards which do not result in classification	: Although methanol is practically non-toxic to animals, it is very toxic to humans.

Safety Data Sheet

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	20 - 50	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%, a	•	CAS-No.: 1344-09-8	1 – 5	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
Full text of hazard classes and H-statements : see s	section 16			
SECTION 4: First-aid measures				
4.1. Description of first aid measures				
First-aid measures general	: Never give anythin	g by mouth to an uncons	cious person. If	you feel unwell, seek medical advice
First-aid measures after inhalation First-aid measures after skin contact		on to breathe fresh air. A		o rest. ninated clothing and wash it before
First-aid measures after eye contact	and easy to do. Co	ntinue rinsing.		s. Remove contact lenses, if present
First-aid measures after ingestion		OT induce vomiting. Obt	ain emergency i	medical attention.
4.2. Most important symptoms and effects				
Potential adverse human health effects and symptoms Symptoms/effects after inhalation	: After drying or heat	data, the classification classificati classification classification classification classificati		et. by prolonged exposure through
Symptoms/effects after skin contact Symptoms/effects after eye contact	inhalation. May cau : Causes skin irritatio : Causes serious eyo			
4.3. Immediate medical attention and speci	ial treatment, if neco	essary		
No additional information available				
SECTION 5: Fire-fighting measures				
5.1. Suitable (and unsuitable) extinguishing	g media			
Suitable extinguishing media Unsuitable extinguishing media	: Carbon dioxide. Dr : Do not use a heavy			
5.2. Specific hazards arising from the chem	nical			
Fire hazard	will be sustained d	ue to high water and clay	content.	of LEL. It is unlikely that combustion
Explosion hazard		e to fire may cause conta	ainers to rupture	/explode.
5.3. Special protective equipment and prec				Drovent fire fighting water from
Firefighting instructions Protection during firefighting	entering the enviro	nment.		ce. Prevent fire fighting water from including respiratory protection.
SECTION 6: Accidental release measu			ave equipment,	
6.1. Personal precautions, protective equip	oment and emergen	cy procedures		
6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders	: If spilled, may caus	e the floor to be slippery		
Protective equipment Emergency procedures	: Equip cleanup crev : Stop release.	with proper protection.		
6.2. Environmental precautions				
Prevent entry to sewers and public waters. Notify au	uthorities if liquid enters	sewers or public waters.		
6.3. Methods and material for containment	and cleaning up			
For containment	: Plug the leak, cut o	ff the supply.		

Safety Data Sheet

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 protect	.01.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
	Avoid contact with eyes. Avoid contact with skin. 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 an	y incompatibilities
Storage conditions :	Store in original container. Keep container closed when not in use.
	Strong bases. Strong acids.
SECTION 8: Exposure controls/personal	protection
8.1. Control parameters	
methanol (67-56-1)	
USA - ACGIH - Occupational Exposure Limits	
	200 ppm
ACGIH® TLV® STEL	250 ppm
quartz (14808-60-7) USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	0.025 mg/m ³ (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	0.05 mg/m ³ 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:	
Wear protective gloves.	
Eye protection:	
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 app	ropriate mask
Other information: Do not eat, drink or smoke during use.	
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical and chemi	
	Liquid
Appearance : Colour :	Slurry. light brown
Odour :	alcohol odour
Odour threshold	No data available
pH :	> 10
Melting point :	> 2000 °F ≈ 20 °F
Freezing point :	
Boiling point	
Boiling point : Flash point :	No data available
Boiling point : Flash point : Relative evaporation rate (butylacetate=1) :	

Safety Data Sheet

Flammability (solid, gas) Vapour pressure Relative vapour density at 20°C Relative density Solubility Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature Decomposition temperature Viscosity, kinematic Viscosity, dynamic Explosive limits Explosive properties Oxidising properties	 Not flammable. No data available No data available ≈ 1.5 Moderately soluble in water. No data available No data available No data available Not Applicable 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, hazardo	bus decomposition products should not be produced.
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Harmful if swallowed. : Not classified : Not classified
Lid Seal Winter (Mixture)	
ATE US (oral)	500 mg/kg bodyweight
	500 mg/kg bodyweight
sodium silicate, alkaline 1.6/2.6, 35%≤concs	≤55%, aqueous solutions (1344-09-8)
sodium silicate, alkaline 1.6/2.6, 35%≤conce LD50 oral rat	≤55%, aqueous solutions (1344-09-8) > 2000 mg/kg (Rat, Oral)
LD50 oral rat	
LD50 oral rat methanol (67-56-1)	 > 2000 mg/kg (Rat, Oral) 1187 – 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Experimental value, 15-35 %
LD50 oral rat methanol (67-56-1) LD50 oral rat	> 2000 mg/kg (Rat, Oral) 1187 – 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Experimental value, 15-35 % aqueous solution, Oral, 7 day(s))
LD50 oral rat methanol (67-56-1) LD50 oral rat LD50 dermal rabbit	 > 2000 mg/kg (Rat, Oral) 1187 - 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Experimental value, 15-35 % aqueous solution, Oral, 7 day(s)) 17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal) 128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14
LD50 oral rat methanol (67-56-1) LD50 oral rat LD50 dermal rabbit LC50 Inhalation - Rat	 > 2000 mg/kg (Rat, Oral) 1187 – 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Experimental value, 15-35 % aqueous solution, Oral, 7 day(s)) 17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal) 128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
LD50 oral rat methanol (67-56-1) LD50 oral rat LD50 dermal rabbit LC50 Inhalation - Rat ATE US (oral)	 > 2000 mg/kg (Rat, Oral) 1187 - 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Experimental value, 15-35 % aqueous solution, Oral, 7 day(s)) 17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal) 128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) 100 mg/kg bodyweight
LD50 oral rat methanol (67-56-1) LD50 oral rat LD50 dermal rabbit LC50 Inhalation - Rat ATE US (oral) ATE US (dermal)	 > 2000 mg/kg (Rat, Oral) 1187 - 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Experimental value, 15-35 % aqueous solution, Oral, 7 day(s)) 17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal) 128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) 100 mg/kg bodyweight 300 mg/kg bodyweight
LD50 oral rat methanol (67-56-1) LD50 oral rat LD50 dermal rabbit LC50 Inhalation - Rat ATE US (oral) ATE US (dermal) ATE US (gases)	 > 2000 mg/kg (Rat, Oral) 1187 - 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Experimental value, 15-35 % aqueous solution, Oral, 7 day(s)) 17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal) 128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) 100 mg/kg bodyweight 300 mg/kg bodyweight 700 ppmv/4h
LD50 oral rat methanol (67-56-1) LD50 oral rat LD50 dermal rabbit LC50 Inhalation - Rat ATE US (oral) ATE US (dermal) ATE US (gases) ATE US (vapours)	 > 2000 mg/kg (Rat, Oral) 1187 - 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Experimental value, 15-35 % aqueous solution, Oral, 7 day(s)) 17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal) 128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) 100 mg/kg bodyweight 300 mg/kg bodyweight 700 ppmv/4h 3 mg/l/4h
LD50 oral rat methanol (67-56-1) LD50 oral rat LD50 dermal rabbit LC50 Inhalation - Rat ATE US (oral) ATE US (dermal) ATE US (gases) ATE US (vapours) ATE US (dust,mist)	 > 2000 mg/kg (Rat, Oral) 1187 - 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Experimental value, 15-35 % aqueous solution, Oral, 7 day(s)) 17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal) 128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) 100 mg/kg bodyweight 300 mg/kg bodyweight 300 mg/kg bodyweight 3 mg/l/4h 0.5 mg/l/4h causes skin irritation. pH: > 10

Safety Data Sheet

methanol (67-56-1)	
рН	No data available in the literature
quartz (14808-60-7)	
рН	6 - 7
Serious eye damage/irritation	: Causes eye irritation. pH: > 10
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤	
pH	11 – 13
methanol (67-56-1)	
pH	No data available in the literature
quartz (14808-60-7)	
pH	6 – 7
	: 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 STOT-single exposure	: Not classified : 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 Potential adverse human health effects and	: Not Applicable : 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 Symptoms/effects after eye contact	: Causes skin irritation. : 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]	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, Semi- static system, Fresh water, Experimental value, Locomotor effect)
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	
Lid Seal Winter (Mixture)	
Persistence and degradability	Not established.
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤	55%, aqueous solutions (1344-09-8)
Persistence and degradability	Biodegradability: not applicable.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

sodium silicate, alkaline 1.6/2.6, 35%≤conc≤5	55%, aqueous solutions (1344-09-8)
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)	$0.6 - 1.12 \text{ g O}_2/\text{g substance}$
Chemical oxygen demand (COD)	1.42 g O ₂ /g substance
ThOD	1.5 g O ₂ /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
12.3. Bioaccumulative potential	
Lid Seal Winter (Mixture)	
Bioaccumulative potential	Not established.
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤5	55%, aqueous solutions (1344-09-8)
Bioaccumulative potential	No bioaccumulation data available.
methanol (67-56-1)	
BCF - 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).
quartz (14808-60-7)	
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤5	55%, aqueous solutions (1344-09-8)
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.
12.5. Other adverse effects	
Effect on global warming : Other information :	None known Avoid release to the environment.
SECTION 13: Disposal considerations	
13.1. Disposal methods	
	Dispose in a safe manner in accordance with local/national regulations.
SECTION 14: Transport information	
In accordance with DOT / TDG / IMDG / IATA	

In accordance with DOT / TDG / IMDG / IATA

Safety Data Sheet

14.1. UN number	
UN-No. (DOT)	: UN1993
UN-No. (TDG) UN-No. (IMDG)	: Not applicable : Not applicable
UN-No. (IATA)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s.
Proper Shipping Name (TDG)	: Not applicable
Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	: Not applicable : Not applicable
14.3. Transport hazard class(es)	
DOT	
Transport hazard class(es) (DOT)	: 3
Hazard labels (DOT)	: 3
TDG	
Transport hazard class(es) (TDG)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
Transport hazard class(es) (IATA)	: 3 (6.1)
Danger labels (IATA)	: 3, 6.1
	6
14.4. Packing group	
Packing group (DOT)	: 111
Packing group (TDG)	: Not applicable
Packing group (TDG) Packing group (IMDG) Packing group (IATA)	
Packing group (IMDG)	: Not applicable : Not applicable
Packing group (IMDG) Packing group (IATA)	: Not applicable : Not applicable
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards	: Not applicable : Not applicable : II
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information	: Not applicable : Not applicable : II
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT)	 Not applicable Not applicable II No supplementary information available. UN1993
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT) DOT Special Provisions (49 CFR 172.102) DOT Special Provisions (49 CFR 173.xxx)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HN2, 31HN2 and 31H2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT) DOT Special Provisions (49 CFR 172.102) DOT Special Provisions (49 CFR 173.xxx) DOT Packaging Exceptions (49 CFR 173.xxx)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21 and 31H42, 31HB2, 31HN2, 31HD2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT) DOT Special Provisions (49 CFR 172.102) DOT Special Provisions (49 CFR 173.xxx) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
Packing group (IMDG) Packing group (IATA) 14.5. Environmental hazards Other information 14.6. Special precautions for user DOT UN-No. (DOT) DOT Special Provisions (49 CFR 172.102) DOT Special Provisions (49 CFR 173.xxx) DOT Packaging Exceptions (49 CFR 173.xxx)	 Not applicable Not applicable II No supplementary information available. UN1993 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal

Safety Data Sheet

DOT Quantity Limitations (Cargo aircraft only (49 :	220 L
CFR 175.75) DOT Vessel Stowage Loca	ition :	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
TDG No data available IMDG No data available IATA		
PCA Excepted quantities (IA PCA Limited quantities (IA PCA limited quantity max r PCA packing instructions (PCA max net quantity (IAT CAO packing instructions (CAO max net quantity (IAT Special provisions (IATA) ERG code (IATA)	TA) ´ : het quantity (IATA) : IATA) : A) : IATA) : A) : A) : A) :	E2 Y341 1L 352 1L 364 60L A104, A113 3L
14.7. Transport in bull	c according to Annex II o	of MARPOL 73/78 and the IBC Code
Not applicable SECTION 15: Regula	atory information	
15.1. US Federal regul		
Lid Seal Winter (Mixtu	ıre)	This product contains Mathemal CAS 67.56 1 subject to the reporting rules
Note		This product contains Methanol CAS 67-56-1 subject to the reporting rules.
All components of this pro (TSCA) inventory	duct are present and listed a	s Active on the United States Environmental Protection Agency Toxic Substances Control Act
Chemical(s) subject to the and 40 CFR Part 372.	e reporting requirements of Se	ection 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986
methanol		CAS-No. 67-56-1 5 – 10%
methanol (67-56-1)		
CERCLA RQ		5000 lb
15.2. International reg	ulations	
CANADA No additional information a EU-Regulations No additional information a National regulations		
quartz (14808-60-7)		
Listed on IARC (Internatio	nal Agency for Research on	Cancer)
15.3. US State regulation	ions	
Lid Seal Winter (Mixtu	ıre)	
U.S California - Proposi	tion 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
		ou to chemicals including quartz, which is known to the State of California to cause cancer, and to the State of California to cause birth defects or other reproductive harm. For more information a.gov.
Component		State or local regulations
methanol(67-56-1)		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	
		y, March 26, 2012 / Rules and Regulations
Revision date Other information		7/9/2025 Report language name. English. In the event of any conflict between the English and other language versions, the English version shall prevail.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of hazard 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.