

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 01/08/2008 Revision date: 21/09/2023 Supersedes version of: 05/09/2017 Version: 2.0

SECTION 1: Identification of the subs	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form Product name UFI CAS-No. Product code Product group Other means of identification	<ul> <li>Mixture</li> <li>Rescocast 3-20R</li> <li>H9V0-905R-800U-EMD3</li> <li>Mixture</li> <li>0318</li> <li>Finished Good</li> <li>Alumina-Silicate Cement Bonded Castable</li> </ul>
1.2.1. Relevant identified uses	ance of mixture and uses advised against
Industrial/Professional use spec Use of the substance/mixture 1.2.2. Uses advised against No additional information available	: Industrial use : Refractory
1.3. Details of the supplier of the safety d	ata sheet
Resco Products (UK) Limited Newbold Works, Melbourne Road, Lount LE65 1PL Ashby-de-la-Zouch England T 44 (0) 1530 222694 UK.SDS@RescoProducts.com - www.RescoProd	lucts.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: Hazards identification	
2.1. Classification of the substance or mi	xture
	6
Labelling according to Regulation (EC) No. 12	72/2008 [CL P]
Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP)	<ul> <li>GHS08 GHS07</li> <li>Warning</li> <li>H373 - May cause damage to organs (respiratory system) through prolonged or repeated exposure (if inhaled).</li> <li>P260 - Do not breathe dust.</li> <li>P280 - Wear eye protection, protective gloves.</li> <li>P284 - In case of inadequate ventilation wear respiratory protection.</li> <li>P314 - Get medical advice/attention if you feel unwell.</li> </ul>
2.3. Other hazards	
Other hazards which do not result in classification Contains no PBT/vPvB substances ≥ 0.1% assess	
Component	
quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
properties, or is not identified as having endocrine	ed in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting e disrupting properties in accordance with the criteria set out in Commission Delegated Regulation 2018/605 at a concentration equal to or greater than 0,1 %
SECTION 3: Composition/information	n on ingredients
3.1. Substances	

#### Not applicable

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3.2. Mixtures			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Calcium Aluminate Cement	CAS-No.: 65997-16-2 EC-No.: 266-045-5	20 – 50	Not classified
quartz, 1%≤conc respirable crystalline silica<10%	CAS-No.: 14808-60-7 EC-No.: 238-878-4	1 – 5	STOT RE 1, H372
Full text of H- and EUH-statements: see section 16		•	
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Never give anything by mo	uth to an uncon	scious person. If you feel unwell, seek medical
First sid messages often inholation	advice (show the label whe		
First-aid measures after inhalation First-aid measures after skin contact	<ul><li>Allow affected person to br</li><li>Gently wash with plenty of</li></ul>		
First-aid measures after eye contact	: IF IN EYES: Rinse cautious	sly with water fo	r several minutes. Remove contact lenses, if
First-aid measures after ingestion	present and easy to do. Co	ntinue rinsing.	tain emergency medical attention.
4.2. Most important symptoms and effects		loc voniting. Ob	an energency model attention.
Symptoms/effects after inhalation		ation. Danger of	serious damage to health by prolonged
	exposure through inhalatio		5 71 5
Symptoms/effects after skin contact Symptoms/effects after eye contact	<ul><li>Causes skin irritation.</li><li>Causes eye irritation.</li></ul>		
4.3. Indication of any immediate medical a		ent needed	
No additional information available			
SECTION 5: Firefighting measures			
5.1. Extinguishing media Suitable extinguishing media	Llos outinguishing modio o	opropriato for a	urounding fire
Unsuitable extinguishing media	: Use extinguishing media a : In case of fire, all extinguis		
5.2. Special hazards arising from the subs		3	
Fire hazard	: Not flammable.		
5.3. Advice for firefighters			
Firefighting instructions		ting any chemic	al fire. Prevent fire fighting water from entering
Protection during firefighting	the environment.	ut proper protec	ctive equipment, including respiratory protection.
SECTION 6: Accidental release measure			
6.1. Personal precautions, protective equi	pment and emergency pro	cedures	
6.1.1. For non-emergency personnel Protective equipment	: Safety glasses. [In case of	inadequate ven	tilation] wear respiratory protection. Gloves.
Emergency procedures	: Do not breathe dust. Avoid		
Measures in case of dust release 6.1.2. For emergency responders	: Ventilate area.		
Protective equipment	: Equip cleanup crew with pr		
Emergency procedures	: Ventilate area. On land, sw	eep or shovel ir	nto suitable containers.
6.2. Environmental precautions			
Prevent entry to sewers and public waters.	t and algorithm un		
6.3. Methods and material for containmen	· · · · · · · · · · · · · · · · · · ·	ato quitable acc	toingre Minimica generation of dust
Methods for cleaning up 6.4. Reference to other sections	. On land, sweep of shovel I	no suitable con	tainers. Minimise generation of dust.
See Section 8. Exposure controls and personal pro	ntection.		
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling			ave been read and understood. Avoid raising
Hygiene measures	dust. Avoid contact with sk : Wash hands and other exp smoking and when leaving	osed areas with	not breathe dust. mild soap and water before eating, drinking or
7.2. Conditions for safe storage, including			
Storage conditions Incompatible products	<ul> <li>Store this product in a dry l</li> <li>Strong bases. Strong acids</li> </ul>		can be protected from the elements.
7.3. Specific end use(s)			
No additional information available			

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SECTION 8: Exposure controls/persona	I protection
8.1. Control parameters	
8.1.1 National occupational exposure and biologic	al limit values
quartz, 1%≤conc respirable crystalline silica	
EU - Indicative Occupational Exposure Limit (IOEL	
IOEL TWA	0.1 mg/m <sup>3</sup> (Respirable fraction)
Belgium - Occupational Exposure Limits	0.4
OEL TWA France - Occupational Exposure Limits	0.1 mg/m <sup>3</sup>
VME (OEL TWA)	0.1 mg/m <sup>3</sup> (La valeur limite concerne la fraction alvéolaire)
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	0.075 mg/m <sup>3</sup> (respirabele fractie)
United Kingdom - Occupational Exposure Limits	0.4
WEL TWA (OEL TWA) [1] USA - ACGIH - Occupational Exposure Limits	0.1 mg/m <sup>3</sup>
ACGIH OEL TWA	0.025 mg/m <sup>3</sup> (Respirable fraction)
8.1.2. Recommended monitoring procedures	
No additional information available	
8.1.3. Air contaminants formed No additional information available	
8.1.4. DNEL and PNEC	
No additional information available	
8.1.5. Control banding	
No additional information available	
8.2. Exposure controls	
8.2.1. Appropriate engineering controls	
Appropriate engineering controls: Provide adequate ventilation to minimize dust concent	rations
8.2.2. Personal protection equipment	induoris.
Personal protective equipment:	
Avoid all unnecessary exposure.	
8.2.2.1. Eye and face protection Eye protection:	
Chemical goggles or safety glasses	
8.2.2.2. Skin protection	
Skin and body protection:	
Wear suitable protective clothing Hand protection:	
Wear protective gloves.	
8.2.2.3. Respiratory protection	
Respiratory protection:	
Wear appropriate mask 8.2.2.4. Thermal hazards	
No additional information available	
8.2.3. Environmental exposure controls	
Other information:	
Do not eat, drink or smoke during use.	
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical and chem	
<b>)</b>	: Solid
Colour	: brown. : Granular mixture.
Appearance Odour	earthy.
Odour threshold	: Not available
Melting point	: > 1100 °C
Freezing point	: Not available
Boiling point Flammability	: Not available : Not flammable
Lower explosion limit	: Not applicable
Upper explosion limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature Decomposition temperature	: Not applicable : Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not Applicable
Solubility Partition coefficient n-octanol/water (Log Kow)	: Slightly soluble. : Not available
Vapour pressure	Not available
Vapour pressure at 50°C	: Not available

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Density	Not available
Relative density :	Not available
Relative vapour density at 20°C	Not applicable
Particle size : 9.2. Other information	Not available
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9.2.1. Information with regard to physical hazard cl Critical temperature	Not applicable
9.2.2. Other safety characteristics	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Hydraulic setting.	
10.2. Chemical stability	
Stable under normal conditions of use.	
10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid	
Avoid dust formation.	
10.5. Incompatible materials	
Strong acids. Strong bases.	
10.6. Hazardous decomposition products	
No additional information available	
<b>SECTION 11: Toxicological information</b>	
11.1. Information on hazard classes as define	ed in Regulation (EC) No 1272/2008
Acute toxicity (oral) :	Not classified
Acute toxicity (dermal) :	Not classified
Acute toxicity (inhalation) : Skin corrosion/irritation :	Not classified Not classified
Additional information	Causes skin irritation.
Calcium Aluminate Cement (65997-16-2)	
pH	≤ 13
 quartz, 1%≤conc respirable crystalline silica<	:10% (14808-60-7)
pH	6-7
Serious eye damage/irritation :	Not classified
Calcium Aluminate Cement (65997-16-2)	
	< 12
pH	≤ 13
quartz, 1%≤conc respirable crystalline silica<	
рН	6 - 7
Respiratory or skin sensitisation :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity : Reproductive toxicity :	Not classified Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	May cause damage to organs (respiratory system) through prolonged or repeated exposure
	(if inhaled).
quartz, 1%≤conc respirable crystalline silica<	(14808-60-7)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure (if inhaled).
Aspiration hazard :	Not classified
Rescocast 3-20R (Mixture)	
Viscosity, kinematic	Not Applicable
quartz, 1%≤conc respirable crystalline silica<	:10% (14808-60-7)
Viscosity, kinematic	Not applicable (solid)
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties	
No additional information available	

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11.2.2. Other information Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met
SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term : (acute)	Not classified
	Not classified
12.2. Persistence and degradability	
Rescocast 3-20R (Mixture)	
Persistence and degradability	Not established.
quartz, 1%≤conc respirable crystalline silica<	:10% (14808-60-7)
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
12.3. Bioaccumulative potential	
Rescocast 3-20R (Mixture)	
Bioaccumulative potential	Not established.
quartz, 1%≤conc respirable crystalline silica<	:10% (14808-60-7)
Bioaccumulative potential	No bioaccumulation data available.
12.4. Mobility in soil	
quartz, 1%≤conc respirable crystalline silica<	:10% (14808-60-7)
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.
12.5. Results of PBT and vPvB assessment	
Component	
quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects Additional information	No other effects known
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
	Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : HP Code :	Avoid release to the environment. HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.
SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA / RID	
14.1. UN number or ID number Not regulated for transport	
14.2. UN proper shipping name	
	Not regulated
Proper Shipping Name (IMDG) : Proper Shipping Name (IATA) :	Not regulated Not regulated
Proper Shipping Name (RID) :	Not regulated
14.3. Transport hazard class(es) ADR	
	Not regulated

Transport hazard class(es) (IMDG)

IMDG

: Not regulated

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IATA Transport hazard class(es) (IA <sup>-</sup>	TA)	: Not regulated
RID Transport hazard class(es) (RI	D)	: Not regulated
14.4. Packing group	-,	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (RID)		<ul> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> </ul>
14.5. Environmental haza	rds	
Dangerous for the environment Marine pollutant Other information	t	: No : No : No supplementary information available
14.6. Special precautions	for user	
Overland transport Not regulated Transport by sea Not regulated Air transport Not regulated Rail transport Not regulated		
14.7. Maritime transport in	n bulk according to	o IMO instruments
Not applicable SECTION 15: Regulato	ry information	
15.1. Safety, health and e	nvironmental regu	lations/legislation specific for the substance or mixture
POP Regulation (Persistent C Contains no substance(s) listed Ozone Regulation (1005/2009 Contains no substance(s) listed Explosives Precursors Regul Contains no substance(s) listed Drug Precursors Regulation Contains no substance(s) listed	d on REACH Annex XV ation List) d on REACH Annex XI C) d on the REACH Cand ed Consent) d on the PIC list (Regu Drganic Pollutants) d on the POP list (Regu B) d on the Ozone Depleti lation (2019/1148) d on the Explosives Pro (273/2004) d on the Drug Precurso	V (Authorisation List)
Occupational diseases		
Code De	escription	
		the inhalation of mineral dust containing crystalline silica (quartz, cristobalite, tridymite), in, talc), graphite or coal.
Germany Employment restrictions		: Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK)		: Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV).
Hazardous Incident Ordinance Netherlands	(12. BlmSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
SZW-lijst van kankerverwekker	nde stoffen	: Calcium Aluminate Cement,quartz, 1%≤conc respirable crystalline silica<10%,cristobalite EU are listed
SZW-lijst van mutagene stoffer SZW-lijst van reprotoxische sto SZW-lijst van reprotoxische sto Vruchtbaarheid SZW-lijst van reprotoxische sto	offen – Borstvoeding offen –	<ul> <li>Calcium Aluminate Cement is listed</li> <li>None of the components are listed</li> <li>None of the components are listed</li> <li>None of the components are listed</li> </ul>
Denmark	Since of the second sec	
Danish National Regulations		: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product
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Switzerland		
Storage class (LK)	: LK 6.1 - Toxic materials	
15.2. Chemical safety assessment		
No chemical safety assessment has been carried out		
SECTION 16: Other	information	
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- and EUH-statements:		
H372	Causes damage to organs through prolonged or repeated exposure.	
H373	May cause damage to organs through prolonged or repeated exposure.	
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1	
Safaty Data Shoot (SDS)		

Safety Data Sheet (SDS), EU Although reasonable care has been taken in the preparation of the information contained herein, Resco extends no warranties, makes no representation and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.