

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 5/1/2015 Revision date: 7/16/2025 Supersedes: 8/3/2022

SECTION 1: Identification					
1.1. Identification					
Product form Product name CAS-No. Product code Other means of identification	: Mixture : Denspak : Mixture : 3020 : Chrome Sand R	amming Mix			
1.2. Recommended use and restrictions	on use				
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.R</u> 1.4. Emergency telephone number	escoProducts.com				
Emergency number	: EMERGENCY (ONLY (CHEMT	REC) USA &	Canada 1-800	-424-9300
	Outside USA &				
SECTION 2: Hazard(s) identification					
2.1. Classification of the substance or m	nixture				
GHS US classification Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Specific target organ toxicity – Single exposure, Respiratory tract irritation Full text of H statements : see section 16		H315 H319 H335		n irritation ious eye irritatio respiratory irrita	
2.2. GHS Label elements, including prec	autionary statemen	ts			
GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)		serious eye irrit se respiratory in itable respirato 38 - IF IN EYES if present and e eye irritation pe	rritation ry equipmen S: Rinse cau easy to do. Ce ersists: Get m	tiously with wate ontinue rinsing. edical advice/a	
	Do not breathe o				
2.3. Other hazards which do not result in	n classification				
No additional information available					
2.4. Unknown acute toxicity (GHS US) No additional information available					
SECTION 3: Composition/Informatic	on on ingredients				
3.1. Substances					
3.1. Substances Not applicable					
3.1. Substances Not applicable 3.2. Mixtures Name			identifier	%	GHS US classification
3.1. Substances Not applicable 3.2. Mixtures		CAS-No.:	identifier 1308-31-2 1317-71-1	<mark>%</mark> 75 – 95 5 – 10	GHS US classification Not classified Not classified

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Full text of hazard classes and H-statements : see see	stion 16
SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures after skin contact	 Allow affected person to breathe fresh air. Gently wash with plenty of soap and water. 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	: Do NOT induce vomiting. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and effects (a	
	: Cough. : Causes serious eye burns.
4.3. Immediate medical attention and special	I treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	media
	: Use extinguishing media appropriate for surrounding fire. : In case of fire, all extinguishing media allowed.
5.2. Specific hazards arising from the chemi	cal
Fire hazard	: Not flammable.
5.3. Special protective equipment and preca	utions for fire-fighters
	 Fight fire with normal precautions from a reasonable distance. Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measure	es a la companya de l
6.1. Personal precautions, protective equipment	nent and emergency procedures
Emergency procedures	 Protective gloves. Safety glasses. Dust on tear out. Wear appropriate mask. Avoid contact with skin. Avoid contact with eyes.
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment.
6.2. Environmental precautions	
No additional information available	
6.3. Methods and material for containment a	nd cleaning up
	: Collect spillage. : On land, sweep or shovel into suitable containers.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash skin thoroughly with mild soap and water.
7.2. Conditions for safe storage, including a	ny incompatibilities
Storage conditions Incompatible products	 Store this product in a dry location where it can be protected from the elements. Strong acids. Chromic oxide may react with alkali at high temperatures under oxidizing conditions.
SECTION 8: Exposure controls/persona	I protection
8.1. Control parameters	
Transvaal Chrome Ore (1308-31-2)	
USA - ACGIH - Occupational Exposure Limits ACGIH® TLV® TWA	0.05 mg/m³ inhalable dust
8.2. 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/Persona	
Personal protective equipment:	i protocti o oquipinont
Avoid all unnecessary exposure.	

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Hand protection:	
Wear protective gloves.	
Eye protection:	
Chemical goggles or safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
Dust on tear out. Wear appropriate mask	
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical and chem	ical properties
Physical state Appearance Color Odor Odor threshold pH Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) Vapor pressure Relative vapor density at 20°C Relative density Solubility Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature Decomposition temperature Decomposition temperature Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidizing properties	 Solid Damp granular mixture. Black None No data available > 10 > 3000 °F No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Fire conditions may produce small amounts of hexava	lent chromium and other oxidation products.
10.2. Chemical stability	
No additional information available	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified : Not classified

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sodium silicate, alkaline 1.6/2.6, 35%≤conc≤5	5%, aqueous solutions (1344-09-8)			
LD50 oral rat	> 2000 mg/kg (Rat, Oral)			
Skin corrosion/irritation :	Causes skin irritation. pH: > 10			
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)				
pН	11 – 13			
Serious eye damage/irritation :	Causes serious eye irritation. pH: > 10			
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤5	5%, aqueous solutions (1344-09-8)			
рН	11 – 13			
	Not classified			
- 5,	Not classified			
Carcinogenicity : Reproductive toxicity :	Not classified Not classified			
	May cause respiratory irritation.			
STOT-repeated exposure :	Not classified			
Aspiration hazard :	Not classified			
5.	No data available Cough.			
	Causes serious eye burns.			
SECTION 12: Ecological information				
12.1. Toxicity				
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤5	5%, 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)			
12.2. Persistence and degradability				
Denspak (Mixture)				
Persistence and degradability	Rapidly degradable			
Transvaal Chrome Ore (1308-31-2)				
Persistence and degradability	Not established.			
Chemical oxygen demand (COD)	Not applicable			
ThOD	Not applicable			
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤5				
Persistence and degradability	Biodegradability: not applicable.			
Chemical oxygen demand (COD)	Not applicable			
ThOD	Not applicable			
BOD (% of ThOD)	Not applicable			
Olivine (1317-71-1)				
Persistence and degradability	Rapidly degradable			
12.3. Bioaccumulative potential				
Transvaal Chrome Ore (1308-31-2)				
Bioaccumulative potential	No data available.			
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤5				
Bioaccumulative potential	No bioaccumulation data available.			

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12.4. Mobility in soil		
Transvaal Chrome Ore (1308-31-2)		
Ecology - soil	No data available.	
sodium silicate, alkaline 1.6/2.6, 35%≤co	onc≤55%, aqueous solutions (1344-09-8)
Ecology - soil	No data available.	
12.5. Other adverse effects		
No additional information available		
SECTION 13: Disposal consideration	ns	
13.1. Disposal methods		
Product/Packaging disposal recommendations	: Chromite (Cr*+3) may in nor chromium (Cr*+6) is conside	mal use be converted chemically to a chromate (Cr*+6). Hexavalent ered a hazardous material.
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	n	
15.1. US Federal regulations		
	listed as Active on the United States	Environmental Protection Agency Toxic Substances Control Act
(TSCA) inventory, except for:		
Transvaal Chrome Ore	CAS-No. 1308-31-2	75 – 95%
Olivine	CAS-No. 1317-71-1	5 – 10%
CFR §372.38(a) subject to the reporting require CFR Part 372.		ess of the applicable de minimis concentration as specified in 40 e Superfund Amendments and Reauthorization Act of 1986 and 40
15.2. International regulations CANADA		
Transvaal Chrome Ore (1308-31-2)		
Not listed on the Canadian DSL (Domestic Subs	stances List//NDSL (Non Domostic S	Substances List)
Olivine (1317-71-1)	stances List/MDSL (Non-Domestic C	
Not listed on the Canadian DSL (Domestic Subs	stances List)/NDSL (Non-Domestic S	Substances List)
EU-Regulations No additional information available National regulations		
Olivine (1317-71-1)		
Exempt-Naturally Occurring Substances in acco	ordance with 40 CFR 710.4(b)	
15.3. US State regulations		
Denspak (Mixture)		
U.S California - Proposition 65 - Other information		*+3) which may in normal use, be converted chemically to a ne, a chemical known to the State of California to cause cancer.
Transvaal Chrome Ore (1308-31-2)		
U.S California - Proposition 65 - Other		*+3) which may in normal use, be converted chemically to a
information	chromate (Cr*+6) hexavalent chror	me, a chemical known to the State of California to cause cancer.
Component	State or local regulatio	
		ns List; U.S New Jersey - Right to Know Hazardous Substance List
Component Transvaal Chrome Ore(1308-31-2) U.S SECTION 16: Other information according to Federal Register / Vol. 77, No. 58 /	3 Massachusetts - Right To Know L	ist; U.S New Jersey - Right to Know Hazardous Substance List.

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Revision date		
Other information		

: 7/16/2025

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 hazard	classes and H-statements
H315	Causes skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation
H335	May cause respiratory irritation

Safety Data Sheet (SDS), USA

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