

### 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	: Mixture			
Product name	: Denspak O			
AS-No.	: Mixture			
roduct code	: 3021			
other means of identification	: Olivine Ramming	) Mix		
2. Recommended use and restrictions				
lse of the substance/mixture ecommended use	: Refractory : Industrial use			
.3. Supplier				
HI Magnesita ne Robinson Plaza, Suite 300 600 Steubenville Pike ittsburgh, PA, 15205 nited States 412-494-4491 esco SDS.TDS@rhimagnesita.com - WWW.R	escoProducts.com			
.4. Emergency telephone number				
mergency number	: EMERGENCY O	NLY (CHEMTREC) U	JSA & Canada 1-8	300-424-9300
	Outside USA & C	Canada +1 703-741-5	970	
SECTION 2: Hazard(s) identification				
2.1. Classification of the substance or m	nixture			
GHS US classification				
kin corrosion/irritation Category 2			es skin irritation	
erious eye damage/eye irritation Category 2A			es serious eye irrit	
pecific target organ toxicity – Single exposure,	Category 3,	H335 May o	cause respiratory i	rritation
espiratory tract irritation ull text of H statements : see section 16				
		•		
.2. GHS Label elements, including prec HS US labeling	autionary statement	5		
lazard pictograms (GHS US)				
ignal word (GHS US)	: Warning	kin irritation		
azard statements (GHS US)	: H315 - Causes s			
		erious eye irritation e respiratory irritation		
recautionary statements (GHS US)	: P261 - Avoid bre		1	
			pment, protective	gloves, eye protection.
				water for several minutes. Remove
	contact lenses, if	present and easy to	do. Continue rinsi	ng.
		kin irritation occurs: (		
.3. Other hazards which do not result i		ye irritation persists:	Get medical advic	e/attention.
.3. Other nazards which do not result in o additional information available	in classification			
4. Unknown acute toxicity (GHS US)				
o additional information available				
ECTION 3: Composition/Informatic	on on ingredients			
.1. Substances				
ot applicable				
.2. Mixtures				
Name		Product ident	ifier %	GHS US classification
Dlivine		CAS-No.: 1317-7		Not classified
odium silicate, alkaline 1.6/2.6, 35%≤conc≤55	%, aqueous solutions	CAS-No.: 1344-0		Skin Irrit. 2, H315
				Eye Irrit. 2B, H320
ull text of hazard classes and H-statements : se	ee section 16			
16/2025 (Revision date)	EN	(English US)		
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SECTION 4: First-aid measures			
4.1. Description of first aid measures			
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact	<ul> <li>Allow affected person to breathe fresh air.</li> <li>Gently wash with plenty of soap and water.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul>		
First-aid measures after ingestion	: Do NOT induce vomiting. Get medical advice/attention if you feel unwell.		
4.2. Most important symptoms and effects			
Symptoms/effects after inhalation Symptoms/effects after eye contact	: Cough. : Causes serious eye burns.		
4.3. Immediate medical attention and speci	al treatment, if necessary		
No additional information available			
SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing	g media		
Suitable extinguishing media 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 chem	nical		
Fire hazard	: Not flammable.		
5.3. Special protective equipment and prec	autions for fire-fighters		
Firefighting instructions	<ul> <li>Fight fire with normal precautions from a reasonable distance. Prevent entry to sewers and public waters.</li> </ul>		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.		
SECTION 6: Accidental release measu	res		
6.1. Personal precautions, protective equip	ment and emergency procedures		
<ul> <li>6.1.1. For non-emergency personnel</li> <li>Protective equipment</li> <li>Emergency procedures</li> <li>6.1.2. For emergency responders</li> <li>Protective equipment</li> </ul>	<ul> <li>: [In case of inadequate ventilation] wear respiratory protection. Protective gloves. Safety glasses.</li> <li>: Avoid contact with skin. Avoid contact with eyes.</li> <li>: Do not attempt to take action without suitable protective equipment.</li> </ul>		
6.2. Environmental precautions			
Prevent entry to sewers and public waters.			
6.3. Methods and material for containment	and cleaning up		
For containment	: Collect spillage.		
Methods for cleaning up	: 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			
Storage conditions Incompatible products	<ul> <li>Store this product in a dry location where it can be protected from the elements.</li> <li>Strong acids. Chromic oxide may react with alkali at high temperatures under oxidizing conditions.</li> </ul>		
SECTION 8: Exposure controls/person	al protection		
8.1. Control parameters			
No additional information available			
8.2. Appropriate engineering controls			
Appropriate engineering controls	: Emergency eye wash fountain with clean water. Dust when sawing or tear out. Provide adequate ventilation to minimize dust concentrations.		
8.3. Individual protection measures/Person			
Personal protective equipment:			

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 pro	perties				
9.1. Information on basic physical and chen	nical 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 Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidizing properties	<ul> <li>Solid</li> <li>Damp granular mixture.</li> <li>Off-white</li> <li>None</li> <li>No data available</li> <li>&gt; 10</li> <li>&gt; 2000 °F</li> <li>No data available</li> <li>No flammable.</li> <li>No flammable.</li> <li>No data available</li> </ul>				
9.2. Other information					
No additional information available					
SECTION 10: Stability and reactivity					
10.1. Reactivity					
No additional information available					
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)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>				

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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≤5	5%, aqueous solutions (1344-09-8)		
рН	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		
Respiratory or skin sensitization :	Not classified		
Germ cell mutagenicity : Carcinogenicity :	Not classified Not classified		
Reproductive toxicity :	Not classified		
STOT-single exposure	May cause respiratory irritation.		
STOT-repeated exposure :	Not classified		
Aspiration hazard :	Not classified		
Viscosity, kinematic :	No data available		
Symptoms/effects after inhalation : Symptoms/effects after eye contact :	Cough. Causes serious eye burns.		
SECTION 12: Ecological information	Causes serious eye burns.		
12.1. Toxicity			
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤5			
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 O (Mixture)	1		
Persistence and degradability	Rapidly degradable		
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤5	5%, aqueous solutions (1344-09-8)		
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			
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)			
Bioaccumulative potential	No bioaccumulation data available.		
12.4. Mobility in soil			
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)			
Ecology - soil	No data available.		
12.5. Other adverse effects			
No additional information available			
SECTION 13: Disposal considerations			
13.1. Disposal methods	Dispess in a sofe mapper in accordance with least/national to substitute		
Product/Packaging disposal recommendations :	Dispose in a safe manner in accordance with local/national regulations.		

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SECTION 14: Transport information					
Department of Tu In accordance wit Not regulated Transportation o Not regulated Transport by sea Not regulated Air transport Not regulated	of Dangerous Goods				
SECTION 15: I	Regulatory information				
15.1. US Federa	I regulations				
All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:					
Olivine		CAS-No. 1317-71-1	75 – 95%		
15.2. Internation	nal regulations				
CANADA					
Olivine (1317-7	1-1)				
Not listed on the C	anadian DSL (Domestic Substances	List)/NDSL (Non-Domestic Substances	List)		
EU-Regulations No additional inform National regulatio					
Olivine (1317-7	1-1)				
Exempt-Naturally Occurring Substances in accordance with 40 CFR 710.4(b)					
15.3. US State regulations					
No additional information available					
SECTION 16: Other information					
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date : 7/16/2025 Other information : Report language name. English. In the event of any conflict between English and other lan versions, the English version shall prevail.			event of any conflict between English and other language		
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				

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