Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 06/23/2022 Version: 1.0

SECTION 1: Ic	lentification				
1.1. Identific	ation				
Product form	Ν	lixture			
Product name	S	MART SERAMIC* (630)			
Product code	S	S-C630CS			
1.2. Relevan	t identified uses of the substar	nce or mixture and uses ad	vised against		
			-		
1.3. Details	of the supplier of the safety dat	a sheet			
Smart Solutions					
12 Corporate Plaz	a				
Suite 150 Newport Beach, C	A 92660 - LISA				
T (949) 431-2732					
www.smartsolution	<u>is.net</u>				
1.4. Emerge	ncy telephone number				
Emergency number	r :	Chemtrec 1-800-424-9300			
SECTION 2: H	azard(s) identification				
	cation of the substance or mixt				
		ule			
GHS US classific	ation				
Not classified					
2.2. Label el	ements				
GHS US labeling					
Precautionary stat	ements (GHS US)				
2.3. Other h	azards				
2.4. Unknow	n acute toxicity (GHS US)				
SECTION 3: C	omposition/Information	on ingredients			
3.1. Substar					
Not applicable					
3.2. Mixture	5				
Name		Product identifier		%	GHS US classification
butyl glycolether		(CAS-No.) 111-76-2		5 – 10	Flam. Liq. 4, H227
					Acute Tox. 4 (Oral), H302
					Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332
					Skin Irrit. 2, H315
Glycidyloxypropyl ti	Eight Eight <th< td=""></th<>				
	s and H-statements : see section 16			-	
	irst aid measures				
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iret aid maaauroo	ofter inholation	Pomovo porcon to fresh air		his fan huaath:	

 4.1. Description of first aid measures

 First-aid measures after inhalation
 : Remove person to fresh air and keep comfortable for breathing.

 First-aid measures after skin contact
 : Wash skin with plenty of water.

 First-aid measures after eye contact
 : Rinse eyes with water as a precaution.

 First-aid measures after ingestion
 : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

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.3. Advice for firefighters rotection during firefighting : Do not attempt to take action without su apparatus. Complete protective clothing SECTION 6: Accidental release measures .1. Personal precautions, protective equipment and emergency procedures	on dioxide. nal conditions of use, storage and transport. uitable protective equipment. Self-contained breathing
1. Extinguishing media uitable extinguishing media : Water spray. Dry powder. Foam. Carbo 2. Special hazards arising from the substance or mixture teactivity : The product is non-reactive under norm 3. Advice for firefighters rotection during firefighting : Do not attempt to take action without su apparatus. Complete protective clothing ECTION 6: Accidental release measures 1. Personal precautions, protective equipment and emergency procedures	nal conditions of use, storage and transport. uitable protective equipment. Self-contained breathing
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apparatus. Complete protective clothing ECTION 6: Accidental release measures .1. Personal precautions, protective equipment and emergency procedures	
1. Personal precautions, protective equipment and emergency procedures	
.1.1. For non-emergency personnel	
mergency procedures : Ventilate spillage area.	
.1.2. For emergency responders	
rotective equipment : Do not attempt to take action without su refer to section 8: "Exposure controls/pe	uitable protective equipment. For further information ersonal protection".
.2. Environmental precautions	
void release to the environment.	
.3. Methods and material for containment and cleaning up	
Iethods for cleaning up : Take up liquid spill into absorbent mater	
ther information : Dispose of materials or solid residues a	at an authorized site.
.4. Reference to other sections	
or further information refer to section 13.	
ECTION 7: Handling and storage	
.1. Precautions for safe handling	
	tion. Wear personal protective equipment. this product. Always wash hands after handling the
product.	
.2. Conditions for safe storage, including any incompatibilities	
torage conditions : Store in a well-ventilated place. Keep co	cool.
ECTION 8: Exposure controls/personal protection	
.1. Control parameters	
Glycidyloxypropyl trimethoxysilane (2530-83-8)	
Not applicable	
butyl glycolether (111-76-2) ACGIH ACGIH OEL TWA [ppm]	20 ppm
	Eye & URT irr
	240 mg/m ³
	<u> </u>
OSHA OSHA PEL (TWA) [2]	50 ppm

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Skin and body protection	: Wear suitable protective clothing.	
Eye protection	: Safety glasses.	
Hand protection	: Protective gloves.	
Appropriate engineering controls	: Ensure good ventilation of the work station.	

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Respiratory protection Environmental exposure controls	 In case of insufficient ventilation, wear suitable respiratory equipment. Avoid release to the environment.
SECTION 9: Physical and chemi	cal properties
9.1. Information on basic physical	and chemical properties
Physical state	: Liquid : No data available
	: No data available

	:	No data available
Odor threshold	:	No data available
рН	:	≈ 3.5
Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	> 212 °F
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	Not applicable.
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	8.25 lb/gal
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2. Other information

SECTION 10: Stability and reactivity		
10.1. Reactivity		
The product is non-reactive under normal conditions of use, storage and transport.		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal conditions of use.		
10.4. Conditions to avoid		
None under recommended storage and handling conditions (see section 7).		
10.5. Incompatible materials		
No additional information available		
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 : Not classified		
Glycidyloxypropyl trimethoxysilane (2530-83-8)		

Glycidyloxypropyl trimethoxysilane (2530-83-8)		
LD50 oral rat	8025 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Experimental value)	
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Glycidyloxypropyl trimethoxysilane (25	530-83-8)
LD50 dermal rabbit	4250 mg/kg body weight (Rabbit; Experimental value; Equivalent or similar to OECD 402)
ATE US (oral)	8025 mg/kg body weight
ATE US (dermal)	4250 mg/kg body weight
butyl glycolether (111-76-2)	
LD50 oral rat	1746 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
LD50 dermal rabbit	435 mg/kg body weight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity; 435 mg/kg bodyweight; Rabbit; Weight of evidence; Equivalent or similar to OECD 402)
LC50 Inhalation - Rat	> 4.26 mg/l (4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
ATE US (oral)	1746 mg/kg body weight
ATE US (dermal)	435 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
Skin corrosion/irritation	: Not classified
	pH: ≈ 3.5
Serious eye damage/irritation	Not classified
	pH: ≈ 3.5
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
butyl glycolether (111-76-2)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Glycidyloxypropyl trimethoxysilane	
LC50 - Fish [1]	55 mg/l (LC50; EU Method C.1; 96 h; Cyprinus carpio; Semi-static system; Fresh water; Experimental value)
EC50 - Crustacea [1]	< 250 mg/l (NOEC; US EPA; 48 h; Simocephalus vetulus; Static system; Fresh water; Experimental value)
LC50 - Fish [2]	237 mg/l (LC50; 96 h; Salmo gairdneri; Static system)
EC50 - Crustacea [2]	324 mg/l (LC50; US EPA; 48 h; Simocephalus vetulus; Static system; Fresh water; Experimental value)
Threshold limit - Algae [1]	119 mg/l (EC50; US EPA; 7 days; Anabaena flosaquae; Static system; Fresh water; Experimental value)
Threshold limit - Algae [2]	250 mg/l (EbC50; 72 h; Selenastrum capricornutum)
butyl glycolether (111-76-2)	
LC50 - Fish [1]	1474 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	1550 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	911 mg/l (72 Hr.)

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Glycidyloxypropyl trimethoxysilane (2530-83-8)		
Persistence and degradability	Not readily biodegradable in water. Hydrolysis in water. No (test)data on mobility of the substance available.	
butyl glycolether (111-76-2)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.	
Biochemical oxygen demand (BOD)	0.71 g O ₂ /g substance	
Chemical oxygen demand (COD)	2.2 g O ₂ /g substance	
ThOD	2.305 g O ₂ /g substance	
BOD (% of ThOD)	0.31	

12.3. Bioaccumulative potential

Glycidyloxypropyl trimethoxysilane (2530-83-8)		
Partition coefficient n-octanol/water (Log Pow)	-0.92 (Estimated value)	
Bioaccumulative potential	Not bioaccumulative.	
butyl glycolether (111-76-2)		
Partition coefficient n-octanol/water (Log Pow)	0.81 (Experimental value; BASF test; 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

12.4. Mobility in soil

butyl glycolether (111-76-2)		
Surface tension	0.027 N/m (25 °C)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.451 – 0.882 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Highly mobile in soil.	

12.5. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT) In accordance with DOT Not applicable

Transportation of Dangerous Goods Not applicable

Transport by sea Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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Acetic acid (64-19-7)				
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory			
Not subject to reporting requirements of the United States SARA Section 313				
CERCLA RQ	5000 lb			
Glycidyloxypropyl trimethoxysilane (2530-83-	8)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory				
EPA TSCA Regulatory Flag	Regulatory Flag TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule.			
Cocamidopropyl bentaine (61789-40-0)				
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory			
Sodium chloride (7647-14-5)				
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory			
Glycerol (56-81-5)				
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory			
butyl glycolether (111-76-2)				
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory			
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard			
SARA Section 313 - Emission Reporting	1 %			
ethylene glycol (107-21-1)				
Listed on the United States TSCA (Toxic Substa Subject to reporting requirements of United State				
CERCLA RQ	5000 lb			
SARA Section 313 - Emission Reporting	1 %			
Acid Yellow 36 (587-98-4)				
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory			
Isopropyl alcohol (67-63-0)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313				
SARA Section 313 - Emission Reporting	1 %			
Quaternary Ammonium Compounds (Not Ava	ilable)			
Not listed on the United States TSCA (Toxic Sub	stances Control Act) inventory			
Benzyl acetate (140-11-4)				
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory			
CITRAL (5392-40-5)				
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory			
Benzyl Salicylate (118-58-1)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				

15.2. International regulations

SMART SERAMIC

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

ethylene glycol (107-21-1)

Listed on EPA Hazardous Air Pollutant (HAPS)

Polysorbate 20

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

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Quaternary Ammonium Compounds (Not Available)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

15.3. US State regulations

ethylene glycol (107-21-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	Yes	No	No	

Acetic acid (64-19-7)
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
Glycerol (56-81-5) U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - RTK (Right to Know) List
butyl glycolether (111-76-2)
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
ethylene glycol (107-21-1)
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
Isopropyl alcohol (67-63-0)
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
U.U I GIIIISYIVAIIIA - IVIIV (IVIGIILIO MIDW) LISU
Benzyl acetate (140-11-4)
U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Full text of H-phrases:

Acute toxicity (dermal) Category 3	
Acute toxicity (inhalation) Category 4	
Acute toxicity (oral) Category 4	
Hazardous to the aquatic environment - Acute Hazard Category 3	
Serious eye damage/eye irritation Category 2B	
Flammable liquids Category 4	
Skin corrosion/irritation Category 2	

SDS US (GHS HazCom 2012) - Custom

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