1 . IDENTIFICATION

Product Identifier: SIMIX - SMX 8800-01 SIMIX MULTI-SURFACE CERAMIC CLEAR COAT

Other Means of Identification: None

Recommended Use: All proper and legal purposes

Recommended restrictions: None known

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name SIMIX, LLC

Address 9180 Prairie Village Drive
Kenosha, WI 53142 USA

Website simixusa.com

Telephone 262-705-2585

Email jeff@simixusa.com

Emergency number 262-705-2585

2 . HAZARDS IDENTIFICATION

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

Label Elements

OSHA HCS 2012 **WARNING**

Hazard statements H315 May cause skin irritation

Precautionary statements P103 Read label before use.
P102 Keep out of reach of children

Prevention P280 Wear protective gloves

Response	P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330 Rinse mouth P302+P352 IF ON SKIN: Wash with plenty of water. P332+P313 If skin irritation occurs: Get medical advice/attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage/Disposal	P233 Keep container tightly closed. P501 Dispose of contents/container in accordance with local/ regional/national/international regulation
Other hazards	
OSHA HCS 2012	Under United States Regulations (29 CFR 1910.1200 Hazard Communication Standard), this product is not considered hazardous.

CanadaCanada

Canada

According to WHMIS

Classification of the substance or mixture

WHMIS D2B Other toxic effects
E Corrosive material

Label elements

WHMIS

D2B Other toxic effects: Skin Sensitization — Allergic skin reaction and Skin/Eye Irritation — Reversible damage

Other hazards

WHMIS **In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).**

Other information

NFPA

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances Material does not meet the criteria of a substance.

Mixtures

Chemical name	Identifiers	% weight	LD50/LC50	Classifications According to Regulation/Directive	Comments
Potassium silicate	CAS 1312-76-1	10-40%	Oral LD50 > 5000 mg/kg (rat)	H318: Eye damage 1 H315: Skin Irritation 2 H335 STOT SE 3	NDA
Lithium silicate	CAS 12627-14-4	3-30%	Oral LD50 > 5000 mg/kg (rat)	H315: Skin Irrit. 2 H319: Eye Irrit. 2 H335: STOT SE 3	NDA
Potassium methyl siliconate	CAS 31795-24-1	1-10%	Oral LD50: > 2000 mg/kg (rat)	H314: Skin burns, eye damage	NDA
Titanium dioxide	CAS 13463-67-7	<.1%	Oral, rat: LD50 > 10 g/kg	Skin Irrit, 2, H317	NDA

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, with the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to the health or to the environment, and hence require reporting in this section.

4. FIRST-AID MEASURES

Description of first-aid measures

Inhalation	**Not Applicable.** Does not contain Volatile Organic Compounds (VOC)
Skin	In case of skin contact, wash affected areas with water and soap.
Eye	In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention if needed.
Ingestion	If swallowed, do not induce vomiting. Drink a glass of water. Do not give anything by mouth to an unconscious person. If need seek immediate medical attention.

Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

5. FIRE FIGHTING MEASURES – This product will not burn.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear chemically resistant gloves.

Emergency procedures:

In the event of a major spill, prevent spillage from entering drains or water courses.

Environmental precautions:

Avoid runoff to waterways and sewers.

Methods and Materials for Containment and Cleaning Up:

Containment/Clean-up Measures

Collect the spilled material and place into a suitable container for disposal.Flush area with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Use of safe work practices are recommended to avoid eye or skin contact.
Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

Conditions for safe storage, including any incompatibilities

Storage

Store in a cool, dry area. Keep in original container tightly closed when not in use. Do not store in aluminum, fiberglass, copper, brass, zinc, or galvanized containers. Keep from freezing.

Incompatible Materials.

Avoid contact with acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

	ACGIH	Canada Ontario	Canada Quebec	NIOSH	OSHA
Titanium dioxide 13463-67-7	10 mg/m^3 TWA	10 mg/m^3	10 mg/m^3	5,000 mg/m^3	15 mg/m^3 TWA

Exposure Standards:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Exposure in the workplace limited and controlled

General protection and hygiene measures:

Avoid contact with eyes and skin.
Do not inhale vapors.
Do not eat or drink when handling.
Remove contaminated, soaked clothing immediately.
Ensure adequate ventilation of the working area.

Exposure Controls

Engineering Measures

Only Applicable in Manufacturing areas.

Personal Protective Equipment

Eye Protection

Distribution, Workplace and Household Settings: No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Use appropriate eye protection

Hand Protection

Distribution, Workplace and Household Settings: For sensitive skin or prolonged use, wear gloves

Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Protective gloves

Skin and Body Protection

Distribution, Workplace and Household Settings: No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Wear suitable protective clothing

Respiratory Protection

Distribution, Workplace and Household Settings: No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY): In case of insufficient ventilation wear suitable respiratory equipment

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical form: Liquid
Appearance/Description: Slightly hazy liquid
Colour: Slightly hazy
Odor: Mild
Odor threshold: Not determined
Taste: Not relevant
Particulate size: Not determined
Aerosol type: Not relevant

General properties:
Initial Boiling Point/Boiling Range: Not determined
Melting point/Melting range: Not determined
Decomposition temperature: Data lacking
Heat of decomposition: Data lacking
pH-Value (1 g/l) : 12.4
Specific gravity: Data lacking
Relative density: Data lacking
Density: Not determined
Bulk density: Not determined
Water solubility: Soluble
Solvent solubility: Data lacking
Viscosity: Not relevant
Explosive properties: Classification criteria not met
Oxidizing properties: Classification criteria not met

Volatility
Vapor Pressure: Not Applicable
Vapor density: Not Applicable
Evaporation Rate: Not Applicable
VOC: Not Applicable
Volatiles: Not Applicable

Flammability
Flash Point: Not applicable
UEL: Not applicable
LEL: Not applicable
Self-Accelerating Decomposition Temperature (SADT): Data lacking
Heat of Combustion (ΔHc): Not applicable
Burning Time: Not applicable
Flame Duration: Not applicable
Flame height: Not applicable
Flame extension: Not applicable
Ignition distance: Not applicable
Flammability: Not applicable

Environmental
Half-Life: Data lacking
Octanol/Water Partition: Data lacking
Coefficient of water/oil distribution: Data lacking
Bioaccumulation Factor: Data lacking
Bioconcentration Factor: Data lacking
Biochemical Oxygen Demand: Data lacking
Chemical Oxygen Demand: Data lacking
Persistence: Data lacking
Degradation: Data lacking

10. STABILITY AND REACTIVITY

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable at ambient temperature and under normal conditions of use.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	No further relevant information available.
Incompatible materials	Strong acids
Hazardous decomposition products	Not applicable

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Component name	CAS	Data
Potassium silicate	1312-76-1	Oral LD50 = 1300 mg/kg (rat)
Titanium dioxide	13463-67-7	Oral LD50 > 10 g/kg (rat)
Lithium silicate	12627-14-4	Oral LD50 > 5000mg/kg (rat)

GHS Properties	Classification
Acute toxicity	Classification criteria not met
Aspiration hazard	Classification criteria not met
Carcinogenicity	No data available
Germ Cell Mutagenicity	No data available
Respiratory sensitization	May cause respiratory irritation
Serious eye damage/Irritation	Causes serious eye damage
Skin corrosion/Irritation	May cause skin irritation
Skin sensitization	May cause skin irritation
STOT-RE	No data available
STOT-SE	May cause respiratory irritation
Toxicity for Reproduction	No data available

Route(s) of entry/exposure Inhalation, Skin, Eye, Ingestion

Potential Health Effects

Inhalation

Acute (Immediate)	May cause irritation to mouth, throat and respiratory tract.
Chronic (Delayed)	No data available.

Skin

Acute (Immediate)	Causes skin irritation.
Chronic (Delayed)	No data available.

Eye

Acute (Immediate)	Causes eye irritation, pain, tearing, reddening and swelling and serious eye damage.
Chronic (Delayed)	No data available.

Ingestion

Acute (Immediate)	Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic (Delayed)	No data available.

12. ECOLOGICAL INFORMATION

Toxicity	Material data lacking.
Persistence and degradability	Material data lacking.
Bioaccumulative potential	Material data lacking.
Mobility in Soil	Material data lacking.
Other adverse effects	No studies have been found.
Other Information	No data is available on the adverse effects of this material on the environment.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product waste	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Packaging waste	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

14. TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	Not regulated	Not regulated	Not regulated	Not regulated	NDA
TDG	Not regulated	Not regulated	Not regulated	Not regulated	NDA
IMO/IMDG	Not regulated	Not regulated	Not regulated	Not regulated	NDA
IATA/ICAO	Not regulated	Not regulated	Not regulated	Not regulated	NDA

Special precautions for user None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Product only provided in non-bulk containers.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

National and local regulations must be observed.
For information on labelling please refer to section 2 of this document.

State Right To Know

Component	CAS	MA	NJ	PA	CA
Potassium silicate	1312-76-1	No	No	No	No
Titanium oxide (TiO2)	13463-67-7	No	Yes	Yes	Yes

Component	CAS	Canada DSL	Canada NDSL	TSCA
Potassium silicate	1312-76-1	Yes	No	Yes
Titanium oxide (TiO2)	13463-67-7	Yes	No	No

Australian Inventory of Chemical Substances:

Substance	CAS
Silicic acid, potassium salt	1312-76-1
Titanium oxide (TiO2)	13463-67-7

Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

South Korea (Republic of Korea) ECL (Existing Chemicals List):

This product is listed in, or complies with, the substance inventory.

Japan ENCS (Handbook of Existing and New Chemical Substances):

This product is listed in, or complies with, the substance inventory.

Australia AICS (Australian Inventory of Chemical Substances):

This product is listed in, or complies with, the substance inventory.

People's Republic of China ECSC (Inventory of Existing Chemical Substances in China):

This product is listed in, or complies with, the substance inventory.

Canada DSL (Domestic Substance List):

This product is listed in, or complies with, the substance inventory.

Philippines PICCS (Philippine Inventory of Chemicals and Chemical Substances):

This product is listed in, or complies with, the substance inventory.

USA TSCA (Toxic Substance Control Act Chemical Substance Inventory):

This product is listed in, or complies with, the substance inventory.

European Economic Area (EEA) REACH (Regulation (EC))

General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

16. OTHER INFORMATION

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.