



SAFETY DATA SHEET - SIMIX AIR CONDITIONER CERAMIC COATING

1 . IDENTIFICATION

Product Identifier: SIMIX - SMX 3450-01 SIMIX AIR CONDITIONER CERAMIC COATING

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	262-948-0567
Email	jeff@simixusa.com
Emergency number	262-948-0567

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

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Response P312 IF SWALLOWED: Call a poison center if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water.
Remove contact lenses, if present and easy to do. Continue rinsing.

Storage/Disposal P233 Keep container 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.

Canada
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).

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances Material does not meet the criteria of a substance.

Mixtures

Chemical name	Identifiers	% weight	LD50/LC50	Comments
Potassium silicate	CAS 1312-76-1	10-40%	Oral LD50 > 5000 mg/kg (rat)	NDA
Lithium silicate	CAS 12627-14-4	3-30%	Oral LD50 > 5000 mg/kg (rat)	NDA
Titanium dioxide	CAS 13463-67-7	<.1%	Oral, rat: LD50 > 10 g/kg	NDA

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

4. FIRST-AID MEASURES

Description of first-aid measures

Inhalation If inhaled, remove to fresh air.

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.

Ingestion If swallowed, give a glass of water.

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5 . FIRE FIGHTING MEASURES

This product will not burn.

Hazardous Combustion Products: None known.

6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear 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.

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 and inhalation of vapours.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry and well ventilated 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.

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

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Exposure Standards:

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

Engineering Measures

Distribution, Workplace and Household Settings: Ensure adequate ventilation

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

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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

Vapour Pressure: Not applicable

Vapor density: Not applicable

Evaporation Rate: Not applicable

VOC: Not applicable

Volatiles: Data lacking

Flammability

Flash Point: Not applicable

UEL: Not applicable

LEL: Not applicable

Self-Accelerating Decomposition Temperature (SADT): Data lacking

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Heat of Combustion (ΔH_c): 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 polymerisation will not occur.

Conditions to avoid

No further relevant information available.

Incompatible materials

None known

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)

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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	No data available
Serious eye damage/Irritation	May cause eye irritation
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.

Chronic (Delayed) No data available.

Skin

Acute (Immediate) May cause skin irritation.

Chronic (Delayed) No data available.

Eye

Acute (Immediate) May cause eye irritation.

Chronic (Delayed) No data available.

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Ingestion

Acute (Immediate) 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

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Special precautions for user
Transport in bulk according
to Annex II of MARPOL 73/78
and the IBC Code

None specified.
 Product only provided in non-bulk containers.

15 . REGULATORY INFORMATION

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

State Right To Know

Component	CAS	MA	NJ	PA	CA
Potassium silicate	1312-76-1	No	No	No	No
Titanium oxide (TiO ₂)	13463-67-7	No	Yes	Yes	Yes

Component	CAS	Canada DSL	Canada NDSL	TSCA
Potassium silicate	1312-76-1	Yes	No	Yes
Titanium oxide (TiO ₂)	13463-67-7	Yes	No	No

Australian Inventory of Chemical Substances:

Substance	CAS
Silicic acid, potassium salt	1312-76-1
Titanium oxide (TiO ₂)	13463-67-7

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Details of international registration status

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.