



SAFETY DATA SHEET - SIMIX A/C CERAMIC COATING

1 . IDENTIFICATION

Product Identifier: SIMIX SMX 3300 A/C 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 Solutions 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

Physical hazards Not classified.
Health hazards Skin corrosion/irritation Category 2
Serious eye damage/irritation Category 2A
Reproductive toxicity Category 1
Environmental hazards Not classified.
OSHA defined hazards Not classified
Label elements



Signal word Danger
Hazard statement Causes skin irritation.
Causes serious eye irritation.
May damage fertility or the unborn child.
Precautionary statement
Prevention Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

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Response	If on skin, wash with plenty of water. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed/concerned, get medical advice/attention. If skin irritation occurs, get medical advice/attention. If eye irritation persists, get medical advice/attention. Take off all contaminated clothing and wash it before reuse.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazards not otherwise classified (HNOC)	None known
Supplemental information	None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	Common name/synonyms	CAS number	%
Trimethoxymethylsilane		1185-55-3	.1-5%
Acetic acid		64-19-7	.1-5%
Methanol		67-56-1	.1-.8%
2-Propanol		67-63-0	.1-.8%
Titanium dioxide		13463-67-7	<.1%
Proprietary ingredients			5%-10%

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4. FIRST AID MEASURES

Inhalation	Remove victim to fresh air. Call a poison center or doctor.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	If exposed or concerned, get medical advice/attention. If you feel unwell, get medical advice and show label where possible. Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves. Shows this safety data sheet to the doctor in attendance.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

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6. ACCIDENTAL RELEASE MEASURES

Protective precautions, protective equipment and emergency procedures:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during cleanup. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of this SDS.

Methods and materials for containment and cleaning up

Large spills: Stop the flow of material, if you can do this without risk. Dike the spilled material where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand, or earth and place into containers. Follow product recovery, flush area with water.

Small spills: Wipe up with absorbent material (e.g., cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of this SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Pregnant or breastfeeding women must not handle this product. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid prolonged exposure. Should be used in closed systems if possible. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	CAS	Type	Value
2-Propanol	67-63-0	PEL	980 mg/m ³ 400 ppm
Acetic Acid	64-19-7	PEL	25 mg/m ³ 10 ppm
Methanol	67-56-1	PEL	260 mg/m ³ 200 ppm
Titanium Dioxide	13463-67-7	PEL	10 mg/m ³

US ACGIH Threshold Limit Values

Component	CAS	Type	Value
2-Propanol	67-63-0	STEL TWA	400 ppm 200 ppm
Acetic Acid	64-19-7	STEL TWA	15 ppm 10 ppm
Methanol	67-56-1	STEL TWA	250 ppm 200 ppm
Titanium Dioxide	13463-67-7	STEL TWA	— 10 mg/m ³

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US NIOSH Pocket Guide to Chemical Hazards

Component	CAS	Type	Value
2-Propanol	67-63-0	STEL TWA	1225 mg/m3 500 ppm 980 mg/m3 400 ppm
Acetic Acid	64-19-7	STEL TWA	37 mg/m3 15 ppm 25 mg/m3 10 ppm
Methanol	67-56-1	STEL TWA	325 mg/m3 250 ppm 260 mg/m3 200 ppm
Titanium Dioxide	13463-67-7	STEL TWA	— 10 mg/m3

Biological limit values**ACGIH Biological Exposure Indices**

Component	CAS	Value	Determinant	Specimen	Sampling Time
2-Propanol	67-63-0	40 mg/l	Acetone	Urine	*
Methanol	67-56-1	15 mg/l	Methanol	Urine	*

Exposure guidelines**US-California OELs: Skin designation**

Methanol (CAS 67-56-1) Can be absorbed through the skin.

US-Minnesota Haz Subs: Skin designation

Methanol (CAS 67-56-1) Skin designation applies.

US-Tennessee OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

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Appropriate engineering controls

Good ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

The following are recommendations for Personal Protective Equipment (PPE). The employer/user of this product must conduct a hazard assessment of the workplace according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any task involving this product.

Eye/face protection Wear safety goggles.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and or/smoking. Routinely wash work clothing and protective equipment to remove contaminants.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state	Liquid
Form	Liquid
Color	Clear Colorless
Odor	Characteristic
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point/range	211.65 °F (99.81 °C) estimated
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	
Flammability limit - lower	Not available
Flammability limit - upper	Not available
Explosive limit - lower	Not available
Explosive limit - upper	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Other information	
Density	8.36 lbs/gallon
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing
Percent volatile	69.31% estimated
Specific gravity	1
VOC (Weight %)	2.42% estimated

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10. STABILITY AND REACTIVITY

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause redness and pain.

Information on toxicological effects

Acute toxicity Not available.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

IARC Monographs, Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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US National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

Suspected of damaging fertility and/or the unborn child.

Specific target organ toxicity - single exposure

Not classified

Specific target organ toxicity - repeated exposure

Not classified

Aspiration hazard

Not an aspiration hazard

Chronic effects

Prolonged inhalation may be harmful.

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component	CAS	Type		Species	Test Results
2-Propanol	67-63-0	Aquatic Fish	LC50	Bluegill (Iepomis macrochirus)	>1400 mg/l, 96 hours
Acetic Acid	64-19-7	Aquatic Crustacea	EC50	Water flea (Daphnia magna)	65 mg/l, 48 hours
		Fish	LC50	Bluegill (Iepomis macrochirus)	75 mg/l, 96 hours
Methanol	67-56-1	Aquatic Crustacea	EC50	Water flea (Daphnia magna)	>10,000 mg/l, 48 hours
		Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
Titanium Dioxide		Aquatic	EC50	Water flea (Daphnia magna)	> 1000 ml/l
		Fish	LC50		> 1000 MG/L

* Estimates for product may be based on additional component data not shown.

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Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

2-Propanol	.05
Acetic Acid	-0.17
Methanol	-0.77

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues/unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT Not regulated as dangerous goods.
DOT information on packaging may be different from that listed.

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15. REGULATORY INFORMATION

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetic Acid (CAS 64-19-7) Listed

Methanol (CAS 67-56-1) Listed

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting) Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Methanol (CAS 67-56-1)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated

FEMA Priority Substances Respiratory Health and Safety in the Flavor

Manufacturing Workplace

2-Propanol (CAS 67-63-0) Low priority

Acetic Acid (CAS 64-19-7) High priority

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US state regulations

US California Controlled Substances, CA Dept of Justice (Calif. Health and Safety Code Section 11100)

Not listed.

US California. Candidate Chemicals List. Safe Consumer Products Regulations (Cal. Code Regs., tit. 22, 69502.3, subd. (a))

2-Propanol (CAS 67-63-0)

Methanol (CAS 67-56-1)

US Massachusetts RTK - Substance List

2-Propanol (CAS 67-63-0)

Acetic Acid (CAS 64-19-7)

Methanol (CAS 67-56-1)

US New Jersey Worker and Community Right to Know Act

2-Propanol (CAS 67-63-0)

Acetic Acid (CAS 64-19-7)

Methanol (CAS 67-56-1)

US Pennsylvania Worker and Community Right to Know Law

2-Propanol (CAS 67-63-0)

Acetic Acid (CAS 64-19-7)

Methanol (CAS 67-56-1)

US Rhode Island RTK

2-Propanol (CAS 67-63-0)

Acetic Acid (CAS 64-19-7)

Methanol (CAS 67-56-1)

US California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

US California Proposition 65- CRT: Listed date/developmental toxin

Methanol (CAS 67-56-1) Listed March 16, 2012

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International Inventories

Country or Region	Inventory name	Is Simix A/C Ceramic Coating on inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substance List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
US and Puerto Rico	Toxic Substances Control Act Inventory (TSCA)	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the products are not listed or exempt from listing on the inventory by the governing country(s)

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Australian Regulations

Component	CAS	% of mixture	Australian Inventory of Chemical Substances (AICS) (listed yes or no)	Do secondary notification conditions apply?
Trimethoxymethylsilane	1185-55-3	.1-5%	Yes	No
Acetic acid	64-19-7	.1-5%	Yes	No
Methanol	67-56-1	.1-.8%	Yes	No
2-Propanol	67-63-0	.1-.8%	Yes	No
Titanium dioxide	13463-67-7	<.1%	Yes	No

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Issue Date August 23, 2018

Version # 01

HMIS ratings Health: 0
Flammability: 0
Physical hazard: 0

NFPA ratings Health: 0
Flammability: 0
Instability: 0

Disclaimer

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.

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