



SAFETY DATA SHEET

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**1 . IDENTIFICATION**

**Product Identifier:** SIMIX - SMX 2150 MULTI-SURFACE CLEANER  
**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**

**Classification of the substance or mixture**

**OSHA HCS 2012** Oxidizing solid 2 - H272 May intensify fire; oxidizer  
Eye 1 - H315 Causes eye irritation  
Acute Toxicity 4 - H302 Harmful if swallowed  
Skin Irritation 2 - H317 May cause an allergic skin reaction  
STOT SE 3 - H335 May cause respiratory irritation.

**Label Elements**

**OSHA HCS 2012**

**WARNING**



**Hazard statements**

H272 May intensify fire; oxidizer  
H302 Harmful if swallowed.  
H315 Causes eye irritation  
H317 May cause allergic skin reaction

**Precautionary statements**

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

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<b>Prevention</b>	P210 Keep from heat, sparks, open flame, hot surfaces. P235 Keep cool P242 Use only non-sparking tools P261 Avoid breathing dust, fumes, gas, mist, vapors and/or spray
<b>Response</b>	P370+P378 In case of fire, use appropriate media for extinction P312 Call a doctor or POISON CENTER if you feel unwell. P304+P340 IF INHALED: Remove victim to fresh air and place in comfortable position for breathing. P332+P313 If skin irritation occurs, get medical advice/attention.
<b>Storage/Disposal</b>	P501 Dispose of contents/container in accordance with local/regional/national/international regulation
<b>Other hazards OSHA HCS 2012</b>	Under United States Regulations (29 CFR 1910.1200 Hazard Communication Standard), this product is considered hazardous

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**Canada  
According to WHMIS**

**Classification of the substance or mixture**

**WHMIS** D2B Other toxic effects

**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 considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).**

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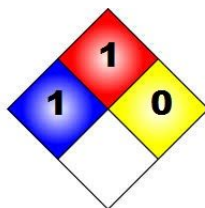
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**Other information**

**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
Sodium carbonate	CAS 497-19-8	10-40%	Inhalation, rat: 2.3mg/l; Oral, rat: LD50 = 4090 mg/kg	<b>OSHA HCS 2012:</b> Eye irritation 2, H319	NDA
Sodium metasilicate (anhydrous)	CAS 6834-92-0	10-40%	Oral, rat: LD50 = 1152-1349 mg/kg bw Inhalation LC50 (rat) >2.06g/m <sup>3</sup> Dermal LD50 (rat) >5000mg/kg bw	<b>OSHA HCS 2012:</b> Skin corrosion 1B, H314; Eye damage 1, H335; STOT SE 3, H290; Metal corrosion 1	NDA
Sodium percarbonate	CAS 15630-89-4	10-30%	Oral, mouse: LD50 = 2200 mg/kg	<b>OSHA HCS 2012:</b> Ox. Liq. 2, H272; Acute Tox. 3, H301; Eye Dam. 1, H318; Skin Irrit. 2, H315	NDA
Titanium dioxide	CAS 13463-67-7	<.1%	Oral, rat: LD50 > 10 g/kg	<b>OSHA HCS 2012:</b> 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.**

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### 4. FIRST-AID MEASURES

#### Description of first-aid measures

<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.
<b>Skin</b>	In case of skin irritation, remove contaminated clothing and wash affected areas with water. Seek medical attention if symptoms occur.
<b>Eye</b>	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.
<b>Ingestion</b>	If swallowed, do not induce vomiting. Give a glass of water. Do not give anything by mouth to an unconscious person. 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

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, foam and water fog.

**Unsuitable Extinguishing Media:** Avoid the use of streaming water, as this may spread the fire.

#### Special hazards arising from the substance or mixture

##### Unusual Fire and Explosion Hazards

This material will not burn, but decomposition will release oxygen which will increase the explosive limits and burning rate of flammable vapours.

**Hazardous Combustion Products:** None known.

**Special Protective Equipment and Precautions for Firefighters:** When fighting a major fire wear self-contained breathing apparatus and protective equipment.

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### 6 . ACCIDENTAL RELEASE MEASURES

#### Personal Precautions:

Wear approved dust/particulate filter respirator and full protective clothing. Evacuate all nonessential personnel from affected area. Do not breathe dust. Ensure adequate ventilation.

#### 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

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Use only non-sparking tools. Use vacuum equipment with HEPA filters or wet sweeping/dust suppressant if sweeping is required. Avoid dust generation. Flush area with water.

### 7 . HANDLING AND STORAGE

#### Precautions for safe handling

Use of safe work practices are recommended to avoid eye contact and inhalation of dust.

Food, beverages and tobacco products should not be stored or consumed where this material is in use.

Always wash hands before smoking, eating, drinking or using the toilet.

Wash contaminated clothing and other protective equipment before storage or re-use.

Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

#### Conditions for safe storage, including any incompatibilities

##### Storage

Store in a cool, dry and well ventilated area. Keep in original container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition.

#### Incompatible Materials or Ignition Sources

Keep away from strong oxidizing and reducing agents and acids.

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**8 . EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure guidelines:

	ACGIH	Canada Ontario	Canada Quebec	NIOSH	OSHA
Titanium dioxide 13463-67-7	10 mg/m <sup>3</sup> TWA	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	5,000 mg/m <sup>3</sup>	15 mg/m <sup>3</sup> TWA
Sodium carbonate 497-19-8	not established	not listed	not listed	none listed	none listed
Sodium metasilicate (anhydrous) 6834-92-0	none listed	not listed	not listed	none listed	Recommended by analogy with sodium hydroxide: 2 mg/m <sup>3</sup>
Sodium percarbonate 15630-89-4	not established	not established	not established	not established	not listed

**Exposure Controls**

**Engineering Measures**

Distribution, Workplace and Household Settings: Ensure adequate ventilation

Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

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### **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:** Powder

**Appearance/Description:** White powder

**Colour:** White

**Odor:** Not determined

**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- 13

**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 ( $\Delta H_c$ ):** Not applicable

**Burning Time:** Not applicable

**Flame Duration:** Not applicable

**Flame height:** Not applicable

**Flame extension:** Not applicable

**Ignition distance:** Not applicable

**Flammability:** Contact with combustible material may cause fire.

**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

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10 . STABILITY AND REACTIVITY

<b>Reactivity</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	Stable at ambient temperature and under normal conditions of use.
<b>Possibility of hazardous reactions</b>	Hazardous polymerisation will not occur.
<b>Conditions to avoid</b>	Heat, sparks, open flames and other sources of ignition.
<b>Incompatible materials</b>	Strong oxidizing and reducing agents and strong acids.
<b>Hazardous decomposition products</b>	No hazardous decomposition products known.

11 . TOXICOLOGICAL INFORMATION

Information on toxicological effects

Component name	CAS	Data
Sodium carbonate	497-19-8	Oral LD50 = 4090 mg/kg (rat) Inhalation LC50 = 2.3 mg/l (rat)
Sodium metasilicate (anhydrous)	6834-92-0	Oral, rat: LD50 = 1152-1349 mg/kg bw Inhalation LC50 (rat) >2.06g/m <sup>3</sup> Dermal LD50 (rat)>5000mg/kg bw
Sodium percarbonate	15630-89-4	Oral, mouse: LD50 = 2200 mg/kg
Titanium dioxide	13463-67-7	Oral, rat: LD50 > 10 g/kg

GHS Properties	Classification
Acute toxicity	No data available
Aspiration hazard	Harmful if swallowed.
Carcinogenicity	No data available
Germ Cell Mutagenicity	No data available
Respiratory sensitization	May cause respiratory irritation.

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Serious eye damage/Irritation	Causes eye irritation.
Skin corrosion/Irritation	May cause an allergic skin reaction.
Skin sensitization	May cause an allergic skin reaction.
STOT-SE	May cause respiratory irritation.
STOT-RE	No data available.
Toxicity for Reproduction	No data available

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

**Potential Health Effects**

**Inhalation**

**Acute (Immediate)** Breathing dust may irritate the nose and throat and cause coughing and chest discomfort.

**Chronic (Delayed)** May cause delayed lung damage.

**Skin**

**Acute (Immediate)** May cause skin irritation.

**Chronic (Delayed)** Repeated and prolonged exposure may cause dermatitis.

**Eye**

**Acute (Immediate)** Dust will irritate the eyes and may damage the eyes.

**Chronic (Delayed)** No data available.

**Ingestion**

**Acute (Immediate)** Irritating to mouth, throat and stomach. Harmful if swallowed. May cause discomfort, nausea, vomiting and diarrhea.

**Chronic (Delayed)** No data available.

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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

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

State Right To Know

Component	CAS	MA	NJ	PA	CA
Sodium carbonate	497-19-8	No	No	No	No
Sodium metasilicate (anhydrous)	6834-92-0	No	No	No	No
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	No	No	No	No
Sodium percarbonate	15630-89-4	No	No	No	No
Carbonic acid, monosodium salt	144-55-8	No	No	No	No
Alcohols, C10-14, ethoxylated	66455-15-0	No	Yes	No	No
Silicic acid, sodium salt	1344-09-8	No	No	No	No
Titanium dioxide (TiO <sub>2</sub> )	13463-67-7	No	Yes	Yes	Yes

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Component	CAS	Canada DSL	Canada NDSL	TSCA
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	Yes	No	No
Sodium carbonate	497-19-8	No	No	No
Sodium metasilicate (anhydrous)	6834-92-0	No	No	No
Sodium percarbonate	15630-89-4	No	No	No
Carbonic acid, monosodium salt	144-55-8	Yes	No	No
Alcohols, C10-14, ethoxylated	66455-15-0	Yes	No	No
Silicic acid, sodium salt	1344-09-8	Yes	No	No
Titanium dioxide (TiO <sub>2</sub> )	13463-67-7	Yes	No	No

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**Australian Inventory of Chemical Substances:**

<b>Substance</b>	<b>CAS</b>
Sodium carbonate	497-19-8
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4
Carbonic acid, monosodium salt	144-55-8
Alcohols, C10-14, ethoxylated	66455-15-0
Sodium metasilicate (anhydrous)	6834-92-0
Silicic acid, sodium salt	1344-09-8
Sodium chloride	7647-14-5
Ethanol	64-17-5
Titanium dioxide (TiO <sub>2</sub> )	13463-67-7
Sulfuric acid	7664-93-9
Glutaral	111-30-8
Methanol	67-56-1

**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):

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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.

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