1. IDENTIFICATION

Product Identifier: SMX 2200-5 MULTI-SURFACE KITCHEN DEGREASER
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.
SAFETY DATA SHEET - SIMIX MULTI-SURFACE KITCHEN DEGREASER

Prevention

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

Response

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.

Storage/Disposal

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 considered hazardous

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).
### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substances**
Material does not meet the criteria of a substance.

**Mixtures**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Identifiers</th>
<th>% weight</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>CAS 497-19-8</td>
<td>10-40%</td>
<td>Inhalation, rat: 2.3mg/l; Oral, rat: LD50 = 4090 mg/kg</td>
<td>OSHA HCS 2012: Eye irritation 2, H319</td>
<td>NDA</td>
</tr>
<tr>
<td>Sodium metasilicate (anhydrous)</td>
<td>CAS 6834-92-0</td>
<td>10-40%</td>
<td>Oral, rat: LD50 = 1152-1349 mg/kg bw Inhalation LC50 (rat) &gt;2.06g/m³ Dermal LD50 (rat)&gt;5000mg/kg bw</td>
<td>OSHA HCS 2012: Skin corrosion 1B, H314; Eye damage 1, H335; STOT SE 3, H290; Metal corrosion 1</td>
<td>NDA</td>
</tr>
<tr>
<td>Sodium percarbonate</td>
<td>CAS 15630-89-4</td>
<td>10-30%</td>
<td>Oral, mouse: LD50 = 2200 mg/kg</td>
<td>OSHA HCS 2012: Ox. Liq. 2, H272; Acute Tox. 3, H301; Eye Dam. 1, H318; Skin Irrit. 2, H315</td>
<td>NDA</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>CAS 13463-67-7</td>
<td>&lt;.1%</td>
<td>Oral, rat: LD50 &gt; 10 g/kg</td>
<td>OSHA HCS 2012: Skin Irrit, 2, H317</td>
<td>NDA</td>
</tr>
</tbody>
</table>

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**
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.

**Skin**
In case of skin irritation, remove contaminated clothing and wash affected areas with water. Seek medical attention if symptoms occur.

**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.

**Ingestion**
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.
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.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines:

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

**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.
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

PRODUCT IDENTIFIER: SIMIX - SMX 2200-5 MULTI-SURFACE KITCHEN DEGREASER
VERSION #1
DATE: 04-05-2019
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

Volutility
Vapour Pressure: Not applicable
Vapor density: Not applicable
Evaporation Rate: Not applicable
VOC: Not applicable
Votatiles: Data lacking

Flammability
Flash Point: Not applicable
UEL: Not applicable
LEL: Not applicable
Self-Accelerating Decomposition Temperature (SADT): Data lacking
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
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
Heat, sparks, open flames and other sources of ignition.

Incompatible materials
Strong oxidizing and reducing agents and strong acids.

Hazardous decomposition products
No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

<table>
<thead>
<tr>
<th>Component name</th>
<th>CAS</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>Oral LD50 = 4090 mg/kg (rat)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation LC50 = 2.3 mg/l (rat)</td>
</tr>
<tr>
<td>Sodium metasilicate (anhydrous)</td>
<td>6834-92-0</td>
<td>Oral, rat: LD50 = 1152-1349 mg/kg bw</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation LC50 (rat) &gt;2.06g/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dermal LD50 (rat) &gt;5000mg/kg bw</td>
</tr>
<tr>
<td>Sodium percarbonate</td>
<td>15630-89-4</td>
<td>Oral, mouse: LD50 = 2200 mg/kg</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>Oral, rat: LD50 &gt; 10 g/kg</td>
</tr>
</tbody>
</table>

GHS Properties

<table>
<thead>
<tr>
<th></th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>May cause respiratory irritation.</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET - SIMIX MULTI-SURFACE KITCHEN DEGREASER

<table>
<thead>
<tr>
<th>Serious eye damage/Irritation</th>
<th>Causes eye irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/Irritation</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>No data available.</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**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.
12 . ECOLOGICAL INFORMATION

Toxicity
Persistence and degradability
Bioaccumulative potential
Mobility in Soil
Other adverse effects
Other Information

Material data lacking.
Material data lacking.
Material data lacking.
Material data lacking.
No studies have been found.
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

<table>
<thead>
<tr>
<th></th>
<th>14.1 UN Number</th>
<th>14.2 UN Proper Shipping Name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>NDA</td>
</tr>
<tr>
<td>TDG</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>NDA</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>NDA</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>NDA</td>
</tr>
</tbody>
</table>

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

State Right To Know

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
<th>CA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Sodium metasilicate (anhydrous)</td>
<td>6834-92-0</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Sodium percarbonate</td>
<td>15630-89-4</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Titanium dioxide (TiO2)</td>
<td>13463-67-7</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Component</td>
<td>CAS</td>
<td>Canada DSL</td>
<td>Canada NDSL</td>
<td>TSCA</td>
<td></td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>--------</td>
<td>------------</td>
<td>-------------</td>
<td>------</td>
<td></td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
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<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Sodium metasilicate (anhydrous)</td>
<td>6834-92-0</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Sodium percarbonate</td>
<td>15630-89-4</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Carbonic acid, monosodium salt</td>
<td>144-55-8</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Alcohols, C10-14, ethoxylated</td>
<td>66455-15-0</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Silicic acid, sodium salt</td>
<td>1344-09-8</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide (TiO2)</td>
<td>13463-67-7</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>
Australian Inventory of Chemical Substances:

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
</tr>
<tr>
<td>Sodium percarbonate</td>
<td>15630-89-4</td>
</tr>
<tr>
<td>Carbonic acid, monosodium salt</td>
<td>144-55-8</td>
</tr>
<tr>
<td>Alcohols, C10-14, ethoxylated</td>
<td>66455-15-0</td>
</tr>
<tr>
<td>Sodium metasilicate (anhydrous)</td>
<td>6834-92-0</td>
</tr>
<tr>
<td>Silicic acid, sodium salt</td>
<td>1344-09-8</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>7647-14-5</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
</tr>
<tr>
<td>Titanium dioxide (TiO2)</td>
<td>13463-67-7</td>
</tr>
<tr>
<td>Sulfuric acid</td>
<td>7664-93-9</td>
</tr>
<tr>
<td>Glutaral</td>
<td>111-30-8</td>
</tr>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
</tr>
</tbody>
</table>

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.