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MATERIAL SAFETY DATA SHEET

Section 1. PRODUCT IDENTIFICATION

PRODUCT NAME: SMS 206K

CHEMICAL DESCRIPTION: Aqueous alkaline solution

PRODUCT CLASS: Industrial cleaner

MSDS CODE: E004

Section 2. INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Sodium xylenesulfonate	1300-72-7	< 5	None established	None established
Ethoxylated octylphenol	9036-19-5	< 5	None established	None established
Sodium silicate	1344-09-8	< 5	None established	None established
Ethoxylated 4-nonylphenol, branched	127087-87-0	< 5	None established	None established
Trisodium phosphate	7601-54-9	< 5	None established	None established
Tetrasodium ethylenediaminetetraacetate (Na ₄ EDTA)	64-02-8	< 5	None established	None established
Alcohols, C9-11, ethoxylated	68439-46-3	< 5	None established	None established

Section 3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****

DANGER!

May cause severe eye irritation.

May cause skin irritation.

May cause severe digestive tract burns if swallowed.

PRIMARY ROUTES OF ENTRY: Eye and skin contact, skin absorption, inhalation, ingestion

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TARGET ORGANS: Eye, skin

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: No data available.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: This product may cause severe irritation and damage upon contact with the eye.

SKIN CONTACT: This product may cause irritation upon contact with skin. Prolonged or widespread skin contact with this product may result in the absorption of harmful amounts of material. See Section 11.

INGESTION: Ingestion of this product may cause severe irritation or burns of the mucous membranes of the mouth, throat, esophagus and stomach.

INHALATION: Inhalation of product mist or vapor may be irritating to the respiratory tract.

SUBCHRONIC, CHRONIC:

No applicable information was found concerning any potential health effects resulting from subchronic or chronic exposure to the product.

CARCINOGENICITY:

NTP:

No ingredients listed in this section

IARC:

No ingredients listed in this section

OSHA:

No ingredients listed in this section

Section 4. FIRST AID MEASURES

EYE CONTACT: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical aid immediately.

SKIN CONTACT: In case of contact, flush skin with plenty of water. Remove contaminated clothing. Seek medical aid if irritation persists. Wash clothing before reuse.

INGESTION: If swallowed, do NOT induce vomiting. Give large quantities of water. Seek medical aid immediately. Never give anything by mouth to an unconscious person.

INHALATION: Not an expected route of overexposure. However, if exposure by inhalation is suspected, remove to fresh air. Aid in breathing if necessary and seek medical aid if symptoms occur.

Section 5. FIRE-FIGHTING MEASURES

FLASH POINT: None to boiling

This product is not by definition a "flammable liquid" or a "combustible liquid".

LOWER FLAMMABLE LIMIT: No data

UPPER FLAMMABLE LIMIT: No data

AUTO-IGNITION TEMPERATURE: No data

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EXTINGUISHING MEDIA: Water fog, chemical foam, carbon dioxide.

FIRE-FIGHTING INSTRUCTIONS: Exercise caution when fighting any chemical fire. A self-contained breathing apparatus and protective clothing are essential.

FIRE & EXPLOSION HAZARDS: Product emits toxic gases under fire conditions.

DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur oxides.

NFPA RATINGS: Health = 3 Flammability = 1 Reactivity = 0 Special Hazard = None

Hazard rating scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Section 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area of spill. Wearing appropriate personal protective equipment, contain spill, collect onto inert absorbent and place into suitable container. The affected area should be washed with water, then the remaining traces of material can be neutralized with a dilute acid such as acetic acid or hydrochloric acid. The area should then be given a final water wash and a covering of sodium bicarbonate. Take care not to allow any solution to flow into the sewer system.

Section 7. HANDLING AND STORAGE

HANDLING: Do not get in eyes.
Avoid contact with skin and clothing.
Avoid breathing vapor or mist.
Use with adequate ventilation.
Wash thoroughly after handling. Keep container closed when not in use.

STORAGE: Do not store near incompatible materials.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Chemical splash goggles

SKIN PROTECTION: Chemical resistant gloves

RESPIRATORY PROTECTION: If airborne concentrations become irritating, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements (29 CFR 1910.134).

ENGINEERING CONTROLS: Local exhaust ventilation may be required in addition to general room ventilation to maintain airborne concentrations below irritation levels.

WORK PRACTICES: An eye wash station should be accessible in the immediate area of use.

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Section 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: > 212°F

SOLUBILITY IN WATER: Complete

VAPOR PRESSURE: No data

SPECIFIC GRAVITY: 1.067 - 1.077 @ 25°C

VAPOR DENSITY (air=1): No data

pH: 12.0 - 12.8

%VOLATILE BY WEIGHT: ~ 82

FREEZING POINT: 25°F

APPEARANCE AND ODOR: Clear, green liquid with citrus odor.

Section 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Do not expose to extreme temperatures.

INCOMPATIBILITY: Strong oxidizers and acids

DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur oxides.

Section 11. TOXICOLOGICAL INFORMATION

ON PRODUCT:

Skin absorption: Studies involving the sustained occluded contact of octylphenoxypolyethoxyethanol nonionic surfactant with rabbit skin indicate that such conditions may result in the development of inflammatory changes in the lung.

Developmental toxicity studies: Developmental effects including extra ribs and other skeletal variations were observed in the fetuses of rats treated with high levels of octylphenoxypolyethoxyethanol surfactant both in the diet or by skin contact. The significance of these findings to humans is unclear as several human studies did not show any association of congenital effects in children and maternal exposure to octoxynol-containing spermicide.

ON INGREDIENTS:

<u>Chemical Name</u>	<u>Oral LD₅₀ (rat)</u>	<u>Dermal LD₅₀ (rabbit)</u>	<u>Inhalation LC₅₀ (rat)</u>
Sodium xylenesulfonate	4 g/kg	Not available	Not available
Ethoxylated octylphenol	1800 mg/kg	Not available	Not available
Sodium silicate	Not available	Not available	Not available
Ethoxylated 4-nonylphenol, branched	Not available	Not available	Not available
Trisodium phosphate	6500 mg/kg (20% aq soln)	> 7940 mg/kg	Not available
Tetrasodium ethylenediaminetetraacetate (Na ₄ EDTA)	3030 mg/kg (38% soln)	> 5 g/kg (38% soln)	Not available
Alcohols, C9-11, ethoxylated	1 g/kg	> 4 g/kg	Not available

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Section 12. ECOLOGICAL INFORMATION

ON PRODUCT:

No information available on the formulated product.

ON INGREDIENTS:

<u>Chemical Name</u>	<u>Aquatic Toxicity Data</u>
Ethoxylated octylphenol	96 hr LC ₅₀ (fathead minnow): 3.6 ppm 48 hr LC ₅₀ (Daphnia magna): 18 ppm 48 hr NOEC (Daphnia magna): 7.5 ppm
Ethoxylated 4-nonylphenol, branched	48 hr LC ₅₀ (Daphnia magna): 21.4 ppm 96 hr LC ₅₀ (fathead minnow): 6.6 ppm
Trisodium phosphate dodecahydrate	96 hr LC ₅₀ (bluegill sunfish): 440 ppm 96 hr LC ₅₀ (trout): 260 ppm
Tetrasodium ethylenediaminetetraacetate	96 hr LC ₅₀ (fathead minnow): > 1,000 ppm 96 hr LC ₅₀ (bluegill sunfish): 486 ppm

Section 13. DISPOSAL CONSIDERATIONS

RCRA STATUS: If the pH is greater than or equal to 12.5, discarded product would be considered a RCRA Hazardous Waste based on the characteristic of corrosivity. The EPA Hazardous Waste Number would be D002.

DISPOSAL: Dispose of in accordance with local, state and federal regulations.

Section 14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Class/Division: Not restricted
Proper Shipping Name: Not applicable
Label: None
Packing Group: Not applicable
ID Number: Not applicable

Section 15. REGULATORY INFORMATION

OSHA Hazard Communication Status: Hazardous

TSCA: All component chemicals of this product have been reported for the TSCA Inventory in accord with EPA regulations.

CERCLA reportable quantity of EPA hazardous substances in product:

<u>Chemical Name</u>	<u>RQ</u>
Trisodium phosphate	5000 lb

Product RQ: 396,825 lb (Notify EPA of product spills exceeding this amount.)

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SARA TITLE III:

Section 302 Extremely Hazardous Substances:

Chemical Name CAS # RQ TPQ

There are no SARA 302 Extremely Hazardous Substances in this product.

Section 311 and 312 Health and Physical Hazards:

Immediate [yes]	Delayed [no]	Fire [no]	Pressure [no]	Reactivity [no]
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Section 313 Toxic Chemicals:

Chemical Name CAS # % by Weight

There are no reportable SARA 313 Toxic Chemicals in this product.

Section 16. OTHER INFORMATION

HMIS RATINGS: Health = 3 Flammability = 1 Reactivity = 0
Personal Protective Equipment = X (to be specified by user depending on use conditions)

Hazard rating scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

MSDS REVISION SUMMARY: Reason for reissue: Update to new format.

While this information and recommendations set forth herein are believed to be accurate as of the date hereof, CALGON CORPORATION MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

PREPARED BY: P.J. Maloney