Safety Data Sheet
Super Det 400

Section 1 - Product and Company Identification

Material Name	▪ **Super Det 400**
SDS #	▪ 1005
Product Description	▪ Clear blue liquid with a citrus fragrance.
Product Use	▪ All purpose cleaner
Manufacturer	▪ Wayne Concept 5005 Speedway Dr. Fort Wayne, IN 46825 United States
Preparation Date	▪ April 17, 2014
Last Rev. Date	▪ March 23, 2016

Section 2 - Hazards Identification

Emergency Overview

WARNING

May cause skin irritation. Causes eye irritation. May be harmful if ingested.

Prevention Avoid breathing dust, fume, gas, mist, vapors and/or spray. Wear protective gloves, clothing , and eye/face protection. Wash thoroughly after handling.

Response IF INHALED: Remove victim to fresh air and keep at rest in a posItion comfortable for breathing. If skin irritation occurs: Get medical advice/attention. Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage/Disposal Store locked up. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

OSHA
- Irritant

WHMIS
- Class D - Poisonous and Infectious Materials - Division 2 - Subdivision B

EU
- Irritant - Xi
  R36/37/38

GHS
- Specific Target Organ Toxicity Single Exposure - Category 3, Skin Corrosion/Irritation - Category 2, Serious Eye Damage/Irritation - Category 2A

Route Of Entry
- Inhalation, Skin, Eye, Ingestion/Oral

Medical Conditions Aggravated by Exposure
- Disorders of the lungs

NFPA:

Potential Health Effects

Inhalation

Acute (Immediate)
- May cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

Chronic (Delayed)
- No data available.

Skin

Acute (Immediate)
- May cause irritation.

Chronic (Delayed)
- No data available.

Eye

Acute (Immediate)
- May cause irritation.

Chronic (Delayed)
- No data available.

Ingestion

Acute (Immediate)
- Low acute oral toxicity. Ingestion of large quantities may cause abdominal pain, abdominal cramps, nausea, vomiting, diarrhea.

Chronic (Delayed)
- No data available.

Potential Environmental Effects
- No specific biodegradation test data located. While the alkalinity of this material is readily reduced in natural waters, the resulting phosphate may persist indefinitley or incorporate into biological systems.

Section 3 - Composition/Information on Ingredients

Hazardous Components

Chemical Name	CAS	%(weight)	UN;EINECS	LD50/LC50	EU Classification & R Phrases	Other
Triphosphoric acid, sodium salt (1:5)	7758-29-4	1–5%	231-838-7	Ingestion/Oral-Rat LD50: =3120 mg/kg Skin-Rabbit LD50: >4640 mg/kg	NDA	NDA
Tetrasodium EDTA	64-02-8	0 – 5%	NDA	NDA	NDA	NDA
Nonylphenol ethoxylate	9016-45-9	1 – 5%	NDA	NDA	NDA	NDA
Cocobis methylamm-onium Chloride	70750-47-9	1 – 5%	274-846-6	NDA	Xi: R36, 38	NDA

Under United States Regulations (29 CFR 1900.1200 - Hazard Communication Standard), this product is considered hazardous. In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS). This product is considered dangerous according to the European Directive 67/548/EEC. According to the Globally Harmonized Standard for Classification and Labeling (GHS) this product is considered hazardous.

Section 4 - First Aid Measures

Inhalation
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin
- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye
- Flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lenses if worn. If eye irritation persists: Get medical advice/attention.

Ingestion
- Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Rinse mouth. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

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. Ingestion of large quantities of phosphate salts (over 1.0 grams for an adult) may cause an osmotic catharsis resulting in diarrhea and probable abdominal cramps. Larger doses such as 4 -8 grams will almost certainly cause these effects in everyone. In healthy individuals most of the ingested salt will be excreted in the feces with the diarrhea and, thus, not cause any systemic toxicity. Doses greater than 10 grams hypothetically may cause systemic toxicity. Treatment should take into consideration both anionic and cation portion of the molecule.

Other Information
- Call 911 or emergency medical service. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Section 5 - Fire Fighting Measures

Extinguishing Media
- Not combustible. Use extinguishing media suitable for surrounding fire.

Unsuitable Extinguishing Media
- None known.

Firefighting Procedures
- LARGE FIRES: Move containers from fire area if you can do it without risk. Do not scatter spilled material with high pressure water streams. Dike fire-control water for later disposal.

Unusual Fire and Explosion Hazards
- Non-combustible.

Hazardous Combustion Products
- Oxides of sodium, oxides of phosphorus.

Protection of Firefighters
- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6 - Accidental Release Measures

Personal Precautions	▪ Do not touch or walk through spilled material.
Emergency Procedures	▪ Keep unauthorized personnel away.
Environmental Precautions	▪ LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.
Containment/Clean-up Measures	▪ Avoid generating dust. SMALL DRY SPILLS: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. LARGE SPILLS: Cover powder spill with plastic sheet or tarp to minimize spreading. Clean up residual material by washing area with water. Collect washings for disposal. Decontaminate tools and equipments after cleanup.
Prohibited Materials	▪ None known.

Section 7 - Handling and Storage

Handling	▪ Keep containers closed when not in use. Avoid breathing dust. Avoid direct or prolonged contact with skin and eyes. Do not ingest. Do not use in areas without adequate ventilation.
Storage	▪ Store in a tightly closed container. Product is hygroscopic and tends to cake on storage. Store in an area that is cool, dry and isolated from all toxic and harmful substances.
Special Packaging Materials	▪ None known.
Incompatible Materials or Ignition Sources	▪ Strong acids, strong oxidizing agents.

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment

Pictograms	▪ 
Eye/Face	▪ Wear safety glasses.
Hands	▪ Wear appropriate gloves.
General Industrial Hygiene Considerations	▪ Do not use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
Engineering Measures/Controls	▪ Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Exposure Limits:
Component

Triphosphoric acid, sodium salt: 10 mg/m³ TWA (ACGIH)

Key to abbreviations

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)

STEL = Short Term Exposure Limits are based on 15-minute exposures

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

TWAEV = Time-Weighted Average Exposure Value

ACGIH = American Conference of Governmental Industrial Hygiene

OSHA = Occupational Safety and Health Administration

Section 9 - Physical and Chemical Properties

Physical Form ▪ Liquid

Appearance/Description ▪ Clear blue liquid with a citrus fragrance.

Color : Blue		**Odor** : Citrus fragrance	
Taste : NDA		**Odor Threshold** : NDA	
Boiling Point:	212ºF	**Vapor Pressure:**	NDA
Melting Point:	NDA	**Vapor Density:**	NDA
Specific Gravity:	1.01 ±0.005	**Evaporation Rate:**	Slower than water
Density:	8.4086	**VOC (Wt.):**	NDA
Bulk Density:	NDA	**VOC (Vol.):**	NDA
Water Solubility:	Soluble	**Volatiles (Wt.):**	NDA
Solvent Solubility:	NDA	**Volatiles (Vol.):**	NDA
Viscosity:	NDA	**Flash Point:**	N/A
Half-Life:	NDA	**Flash Point Test Type:**	N/A
Octanol/Water Partition coefficient:	NDA	**UEL:**	N/A
Coefficient of Water:	NDA	**LEL:**	N/A
Bioaccumulation Factor:	NDA	**Autoignition:**	N/A
pH:	10.2 ±0.5		

Section 10 - Stability and Reactivity

Stability ▪ Stable under normal temperatures and pressures.

Hazardous Polymerization ▪ Hazardous polymerization will not occur.

Conditions to Avoid ▪ Dusting conditions, extreme heat, extreme humidity.

Incompatible Materials ▪ Strong acids, strong oxidizing agents.

Hazardous Decomposition Products ▪ None known.

Section 11 - Toxicological Information

Other Material Information ▪ Mist may be irritating to skin, eyes, and respiratory tract.

Component Name	CAS	Data
Triphosphoric acid, sodium salt (1:5)	7758-29-4	**Acute Toxicity: Oral**: (rat) TDLo:2730 mg/kg/13W-I; **Skin:** (rabbit) LD50:>4640 mg/kg; **Irritation: Skin:** (rabbit) 500 mg/24H MOD
Tetrasodium EDTA	64-02-8	**Acute Toxicity: Ingestion:** (rat) LD50: 3,030 mg/kg; **Dermal:** (rabbit) LD50: >5000 mg/kg
Cocobis methylammonium chloride	70750-47-9	**Acute Toxicity: Oral:** LD50: >2000 mg/kg

Section 12 - Ecological Information

Component Ecological Toxicity:

Tetrasodium EDTA: LC50 (fathead minnow): >100 mg/l 96 h
LC50 (bluegill sunfish): 157 – 2070 mg/l 96 h

Nonylphenol ethoxylate: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Water polluting material. May be harmful to the environment if released in large quantities.

Ecological Fate ▪ No data found for product.

Persistence/Degradability ▪ No data found for product.

Bioaccumulation Potential ▪ No data found for product.

Mobility in Soil ▪ No data found for product.

Other Information ▪ No specific biodegradation test data located. While the alkalinity of this material is readily reduced in natural waters, the resulting phosphate may persist indefinitley or incorporate into biological systems.

Section 13 - Disposal Considerations

Product ▪ Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transportation Information

DOT/IMDG/IATA Hazard Classification: Non-Hazardous, not regulated
Hazardous: N
Shipping Name: LIQUID CLEANING COMPOUNDS
Freight Class: 55

TDG - Canada - Transport of Dangerous Goods

Shipping Name: Not Regulated

ADR - Europe Transport of Dangerous Goods by Road/Inland Waterway

Shipping Name: Not Regulated

Section 15 - Regulatory Information

SARA Hazard Classifications ▪ Acute

Risk & Safety Phrases ▪ R36/37/38 Irritating to eyes, respiratory system and skin.
S24/25 Avoid contact with skin and eyes.
S22 Do not breathe dust.

Inventory						
Component	**CAS**	**Australia AICS**	**Canada DSL**	**Canada NDSL**	**China**	**EU EINECS**
All components		Yes	Yes	No	Yes	Yes

Inventory (Con't.)						
Component	**CAS**	**EU ELNICS**	**Japan ENCS**	**Korea KECL**	**New Zealand**	**Philippines PICCS**
All components		No	Yes	Yes	Yes	Yes

Inventory (Con't.)			
Component	**CAS**	**Switzerland SWISS**	**TSCA**
All components		No	Yes

United States Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
None Listed

U.S. - CAA (Clean Air Act) - Class I Ozone Depletors
None Listed

U.S. - CAA (Clean Air Act) - Class II Ozone Depletors
None Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
- Triphosphoric acid, sodium salt (1:5) 7758-29-4 60% TO 100% 5000 lb final RQ; 2270 kg final RQ

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs
None Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs
None Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing
None Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents
None Listed

U.S. - SDWA (Safe Drinking Water Act) - CCL (Contaminant Candidate List)
None Listed

Section 16 - Other Information

HMIS Rating: **Health:** 1 **Flammability:** 0 **Reactivity:** 0

Personal Protection: B

Hazard Ratings: 4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=Insignificant
Personal Protective Equipment: B=Safety glasses, gloves

Preparation Date ▪ April 17, 2014

Disclaimer/Statement of Liability

The information herein is given in good faith but no warranty, expressed or implied, is made.

Key to abbreviations
NDA =No Data Available