Safety Data Sheet

1 – PRODUCT IDENTIFICATION

PRODUCT NAME: ..... Syn Quat 10 Plus
PRODUCT TYPE: ..... Neutral Liquid Detergent/Disinfectant
PRODUCT NUMBER: ..... S3645XXX (Last 3 characters vary with the packaging)
CONTROL NUMBER: S3645XXX

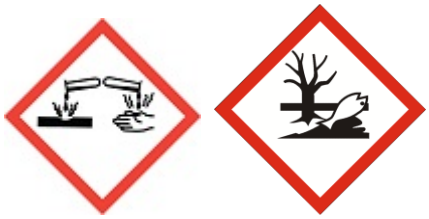
COMPANY: ..... **Simoniz USA, Inc.**
201 Boston Turnpike
Bolton, CT 06043
1-800-227-5536
www.simoniz.com

EMERGENCY PHONE: ..... (800) 255-3924 (CHEM-TEL)

2 – HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE/MIXTURE: .... Flammable liquids (4), Skin corrosion (1B), Serious eye damage (1),

SYMBOLS: .....



SIGNAL WORD: ..... DANGER!
HAZARD STATEMENT: ..... Combustible liquid. Causes severe skin burns and eye damage. Very toxic to aquatic life.
PRECAUTIONARY STATEMENTS:
PREVENTION: ..... Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
RESPONSE: ..... IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. Wash contaminated clothing before reuse. In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish. Collect spillage.
STORAGE: ..... Store in well ventilated area. Store locked up.
DISPOSAL: ..... Dispose of container and contents in accordance with local regulations.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	C.A.S. NUMBER
Water	7732-18-5
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	68424-95-3
Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1
Ethanol	64-17-5

4 – FIRST-AID MEASURES

BREATHING (INHALATION):... Move to fresh air. If unconscious, place in recovery position and seek medical advice. If breathing is irregular or stopped, administer artificial respiration. Call a physician or poison control centre immediately. Keep respiratory tract clear.

SWALLOWING (INGESTION):. Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

EYES: ..... In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Continue rinsing eyes during transport to hospital. Small amounts splashed into eyes can cause irreversible tis-sue damage and blindness.

SKIN (DERMAL): ..... After contact with skin, wash immediately with plenty of soap and water. Take off contaminated clothing and shoes immediately. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Take victim immediately to hospital.

5 – FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA..... Water spray, Alcohol-resistant foam, Dry chemical

UNSUITABLE EXTINGUISHING MEDIA ..... High volume water jet

SPECIFIC HAZARDS DURING FIREFIGHTING..... Heating or fire can release toxic gas. Do not allow run-off from fire fighting to enter drains or water courses.

FURTHER INFORMATION ..... Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use extinguishing measures that are appropriate

to local circumstances and the surrounding environment.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS ..... In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES .... Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Use respirator when performing operations involving potential exposure to vapour of the product.

ENVIRONMENTAL PRECAUTIONS ..... Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP ..... Contain spillage, and then collect with non-combustible ab-sorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Non-sparking tools should be used.

7 – HANDLING and STORAGE

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION ..... Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

ADVICE ON SAFE HANDLING ..... Avoid formation of aerosol. Do not breathe vapours/dust. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the ap-plication area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.

CONDITIONS FOR SAFE STORAGE ..... Keep container tightly closed. To maintain product quality, do not store in heat or direct sun-light. Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards. To

maintain product quality, do not store in heat or direct sun-light. No smoking.

RECOMMENDED STORAGE TEMPERATURE 50 - 100.0 °F / 10 - 37.8 °C 129 °F / 54 °C

STORAGE PERIOD ..... 14 Days

FURTHER INFORMATION ON STORAGE STABILITY ..... No decomposition if stored and applied as directed.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENT	C.A.S. NUMBER	PEL
Water	7732-18-5	No limits established
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	68424-95-3	No limits established
Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	No limits established
Ethanol	64-17-5	REL 1,000 ppm/NIOSH

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection..... In the case of vapour formation use a respirator with an approved filter. Respirator with ABEK filter. Respirator with a vapour filter (EN 141)

Hand protection..... Material: Nitrile rubber
Remarks: Wear protective gloves. Break through time : > 480 min

Eye protection ..... Safety glasses with side-shields conforming to EN166. Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection .... Choose body protection according to the amount and concentration of the dangerous substance at the work place. Impervious clothing

Hygiene measures..... Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

9 – PHYSICAL / CHEMICAL PROPERTIES

APPEARANCE & ODOR:..... Red transparent liquid, disinfectant odor.
ODOR THRESHOLD: ..... N/A
pH:..... 6.0-8.0
MELTING POINT: ..... N/A
FREEZING POINT: ..... N/A
BOILING POINT:..... N/A

BOILING POINT RANGE: ..... N/A
FLASHPOINT:..... >149° F / > 65° C
Does not sustain combustion according to ASTM 4206
EVAPORATION RATE: ..... N/A
FLAMMABILITY (solid/gas): ... N/A
EXPLOSION LIMITS:..... N/A
VAPOR PRESSURE:..... N/A
VAPOR DENSITY (AIR=1): ..... Greater than 1.
SPECIFIC GRAVITY:..... 0.99 g/cm^3 (77° F/25° C)
SOLUBILITY IN WATER: ..... Soluble.
PARTITION COEFFICIENT:..... N/A
AUTO-IGNITION TEMPERATURE:.....N/A
DECOMPOSITION TEMPERATURE: .....N/A
VISCOSITY: ..... Water thin

10 – STABILITY and REACTIVITY

REACTIVITY ..... No decomposition if stored and applied as directed.

CHEMICAL STABILITY ..... Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS.. Stable under normal conditions. Stable under recommended storage conditions. Vapours may form explosive mixture with air.

CONDITIONS TO AVOID..... Heat, flames and sparks.

INCOMPATIBLE MATERIALS ..... Strong oxidizing agents. Reducing agents. Strong acids and strong bases. Oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS. Nitrogen oxides (NOx) Carbon oxides No decomposition if used as directed.

11 – TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Acute oral toxicity ..... Acute toxicity estimate: 4,233 mg/kg
Method: Calculation method
Acute inhalation toxicity..... Remarks: no data available
Acute dermal toxicity ..... Acute toxicity estimate: 4,724 mg/kg
Method: Calculation method

SERIOUS EYE DAMAGE/EYE IRRITATION

Species: Rabbit
Result: Corrosive
Exposure time: 24 h
Method: DOT

RESPIRATORY OR SKIN SENSITIZATION

Test Type: Buehler Test
Species: Guinea pig
Result: not sensitizing

GLP: yes

GERM CELL MUTAGENICITY

Genotoxicity in vitro ..... Remarks: no data available

CARCINOGENICITY

Remarks: no data available

IARC ..... No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA..... No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP..... No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcino-gen by NTP.

ACGIH ..... Confirmed animal carcinogen with unknown relevance to humans

REPRODUCTIVE TOXICITY

Effects on fertility ..... Remarks: no data available

STOT - SINGLE EXPOSURE

Remarks: no data available

STOT - REPEATED EXPOSURE

Remarks: no data available

ASPIRATION TOXICITY

No aspiration toxicity classification

FURTHER INFORMATION

Remarks: Information given is based on data on the components and the toxicology of similar products. No data is available on the product itself.

Remarks: Ingestion may cause nausea, vomiting, sore throat, stomach-ache and eventually lead to a perforation of the intestine. Solvents may degrease the skin.

THE FOLLOWING TOXICOLOGICAL DATA REFER TO:

Alkyl (C12-16) dimethylbenzyl ammonium chloride(CAS-No.: 68424-85-1)

Acute toxicity

Acute oral toxicity ..... LD50 (Rat): ca. 344 mg/kg
GLP: no

Acute dermal toxicity ..... LD50 (Rabbit, male and female): 3,412 mg/kg
Method: OPPTS 870.1200
GLP: no

SKIN CORROSION/IRRITATION

Species: Rabbit
Exposure time: 4 h
Method: DOT
Result: Corrosive
GLP: no

RESPIRATORY OR SKIN SENSITISATION

Test Type: Buehler Test
Species: Guinea pig
Assessment: Did not cause sensitisation on laboratory animals.
Method: OECD Test Guideline 406
Result: not sensitizing
GLP: yes

GERM CELL MUTAGENICITY

Genotoxicity in vitro ..... Test Type: Ames test
Species: Salmonella typhimurium
Metabolic activation: yes
Method: OECD Test Guideline 471
Result: not mutagenic
GLP: yes

Test Type: Chromosome aberration test in vitro
Species: Human lymphocytes
Metabolic activation: yes
Method: OECD Test Guideline 473
Result: non clastogenic
GLP: yes

Test Type: gene mutation test
Species: Chinese hamster ovary cells
Metabolic activation: yes
Method: OECD Test Guideline 476
Result: not mutagenic
GLP: yes

Test Type: unscheduled DNA synthesis assay
Species: rat hepatocytes
Method: OECD Test Guideline 482
Result: negative
GLP: yes

Genotoxicity in vivo ..... Test Type: In vivo micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: oral (gavage)
Method: OECD Test Guideline 474
Result: not mutagenic
GLP: yes

REPRODUCTIVE TOXICITY

Effects on fertility ..... Test Type: Two-generation study
Species: Rat, female
Application Route: Ingestion
Dose: 0-300-1000-2000 ppm
General Toxicity - Parent: NOAEL: 67 - 106 mg/kg body weight
General Toxicity F1: 54 - 86 mg/kg body weight
General Toxicity F2: NOAEL: 54 - 86 mg/kg body weight
Fertility: NOAEL: 112 - 161 mg/kg body weight

Method: OECD Test Guideline 416
Result: Animal testing did not show any effects on fertility.
GLP: yes

Test Type: Two-generation study
Species: Rat, male
Application Route: Ingestion
Dose: 0-300-1000-2000 ppm
General Toxicity - Parent: NOAEL: 51 - 102 mg/kg body weight
General Toxicity F1: NOAEL: 41 - 83 mg/kg body weight
General Toxicity F2: NOAEL: 41 - 83 mg/kg body weight
Fertility: NOAEL: 139 - 198 mg/kg body weight
Method: OECD Test Guideline 416
Result: Animal testing did not show any effects on fertility.
GLP: yes

Effects on foetal development ..... Species: Rat
Strain: Sprague-Dawley
Application Route: Oral
Dose: 0-10-30-100 milligram per kilogram
General Toxicity Maternal: NOEL: 8.1 mg/kg bw/day
Developmental Toxicity: NOAEL: 81 mg/kg body weight
Method: OECD Test Guideline 414
Result: No effects on fertility and early embryonic develop-ment were detected.
GLP: yes

REPEATED DOSE TOXICITY

Species: Dog, female
NOAEL: 45 mg/kg
Application Route: Dietary
Exposure time: 90 d
Number of exposures: daily
Dose: 0-500-1500-3000 ppm

Species: Dog, male
NOAEL: 50 mg/kg
Application Route: Dietary
Exposure time: 90 d
Number of exposures: daily
Dose: 0-500-1500-3000 ppm

Species: Rat, male
NOAEL: 31 mg/kg
Application Route: Dietary
Exposure time: 90 d
Number of exposures: daily

Dose: 0-6-31-62 mg/kg
Method: OECD Test Guideline 408
GLP: yes

Species: Rat, female
NOAEL: 38 mg/kg
Application Route: Dietary
Exposure time: 90 d
Number of exposures: daily
Dose: 0-8-38-77 mg/kg
Method: OECD Test Guideline 408
GLP: yes

12 – ECOLOGICAL INFORMATION

ECOTOXICITY
Toxicity to fish ..... Remarks: no data available

PERSISTENCE AND DEGRADABILITY
Biodegradability..... Remarks: no data available

BIOACCUMULATIVE POTENTIAL
Bioaccumulation..... Remarks: no data available

COMPONENTS:
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides
Partition coefficient: n-octanol/water ..... log Pow: 2.59 (20 °C)
pH: 7
Method: Calculation method

Alkyl (C12-16) dimethylbenzyl ammonium chloride:
Partition coefficient: n-octanol/water ..... log Pow: 2.75 (20 °C)
Method: OECD Test Guideline 107
GLP: yes

Ethanol:
Partition coefficient: n-octanol/water ..... log Pow: -0.3

MOBILITY IN SOIL
Distribution among environmental compartments ..... Remarks: no data available

OTHER ADVERSE EFFECTS
Ozone-Depletion Potential ..... Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information ..... There is no data available for this product.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects.

The following ecotoxicological data refer to:
Alkyl (C12-16) dimethylbenzyl ammonium chloride(CAS-No.: 68424-85-1)

Ecotoxicity

Toxicity to fish ..... NOEC (Pimephales promelas (fathead minnow)): 0.0322 mg/l
Exposure time: 34 d
Test Type: Early-life Stage
Analytical monitoring: yes
Method: EPA-FIFRA
GLP: yes

NOEC (Lepomis macrochirus (Bluegill sunfish)): 0.456 mg/l
Exposure time: 96 h
Analytical monitoring: yes
Method: US-EPA
GLP: yes

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.515 mg/l
Exposure time: 96 h
Analytical monitoring: yes
Method: US-EPA
GLP: yes

Toxicity to daphnia and other aquatic Invertebrates ..... EC50 (Daphnia magna (Water flea)): 0.016 mg/l
Exposure time: 48 h
Test Type: Immobilization
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

NOEC (Daphnia magna (Water flea)): >= 0.00415 mg/l
Exposure time: 21 d
Test Type: Reproduction Test
Analytical monitoring: yes
Method: EPA-FIFRA
GLP: yes

Toxicity to algae ..... ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.049 mg/l
Exposure time: 72 h
Test Type: Cell multiplication inhibition test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

EC50 (Lemna gibba): 0.12 mg/l

Exposure time: 7 d
Test Type: Growth inhibition
Analytical monitoring: yes
Method: US-EPA

ErC50 (algae): 0.089 mg/l
Exposure time: 96 h
Test Type: Growth inhibition
Analytical monitoring: yes
Method: US-EPA
GLP: yes

M-Factor (Acute aquatic toxicity) 10

M-Factor (Chronic aquatic toxicity) 1

Toxicity to microorganisms..... EC50 (activated sludge): 7.75 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209
GLP: yes

Toxicity to soil dwelling organisms..... Test Type: Acute toxicity
LC50 (Eisenia fetida (earthworms)): 7,070 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 207

Test Type: Soil Microflora
EC50: > 1,000 mg/kg
Exposure time: 28 d
Method: OECD Test Guideline 216
GLP: yes

Plant toxicity ..... EC50: 277 - 1,900 mg/kg
Exposure time: 14 d
End point: Growth inhibition
Method: OECD Test Guideline 208

Persistence and degradability

Biodegradability..... Test Type: CO2 Evolution Test
Concentration: 5 mg/l
Result: Readily biodegradable.
Biodegradation: 95.5 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: no

Stability in water ..... Degradation half life: > 1 y (20 °C) pH: 7
Method: Directive 67/548/EEC, Annex V, C.10.
GLP: yes

Bioaccumulative potential

Bioaccumulation..... Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 79

Exposure time: 35 d
Concentration: 0.076 mg/l
Method: US-EPA
GLP: yes
Remarks: Does not bioaccumulate.

Mobility in soil

Distribution among environmental Compartments ..... Absorption / desorption
Medium: Soil
Koc: 282624 L/kgKd: 13,630, log Kd: 3.13
Method: OECD Test Guideline 106

Other adverse effects

no data available

13 –DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Waste from residues ..... Dispose of in accordance with local regulations. Contact waste disposal services. Dispose of contents/container in accordance with local regulation. Contact waste disposal services. Do not dispose of waste into sewer. The product should not be allowed to enter drains, water courses or the soil.

Contaminated packaging ..... Triple rinse containers. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

14 – TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: .... Not D.O.T. regulated.
HAZARD CLASS: .....
UN/NA NUMBER: .....
PACKAGING GROUP : .....

15 - REGULATIONS

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These require-ments differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

EPA Registration number 6836-266-18305
Signal word ..... DANGER!
Hazard statements..... Harmful if swallowed. Harmful if absorbed through skin. Corrosive. Causes skin burns. Corrosive - causes irreversible eye damage.

EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity

Not applicable

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Acci-dental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489)

Components	CAS-No.	Concentration
Ethanol	64-17-5	>=1 - <5%

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Components	CAS-No.
Ethanol	64-17-5

Pennsylvania Right To Know Components CAS-No.

Components	CAS-No.
Water	7732-18-5
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlo-rides	68424-95-3
Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The product components have the following inventory status

This product can only be used commercially in the EPA registered application(s) noted on the product label.

16 – OTHER INFORMATION

ADDITIONAL: ..... The information contained in this SDS is based on the data available to us from sources we believe to be reliable. No warranty or guaranty expressed or implied is made regarding the accuracy of this data or the results obtained from the reliance on this data. The manufacturer assumes no responsibility for injury from the use of this product. Be safe- read this product safety information and pass it on to all persons who may be exposed to this product. Federal law requires it. This product and/or all of its components are either included on or exempt from the TSCA Inventory of Chemical Substances.

REVISION DATE:..... 04/03/2024