



Versitol

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Versitol
SDS Number: 5005
Revision Date: 11/5/2015
Product Description: Multi-function cleaning concentrate
Product Use: Cleaning and decontamination of turnout gear, fire equipment and vehicles.
Supplier Details: Winsol Laboratories Inc
1417 NW 51st St
Seattle, WA 98107
Emergency: INFOTRAC 1-800-535-5053 (North America); 1-352-323-3500 (International)
Phone: 206-782-5500
Web: www.winsol.com

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Skin corrosion/irritation, 2
Health, Serious Eye Damage/Eye Irritation, 2 B
Health, Acute toxicity, 4 Oral
Health, Acute toxicity, 5 Dermal

GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

H315 - Causes skin irritation
H320 - Causes eye irritation
H302 - Harmful if swallowed
H313 - May be harmful in contact with skin

GHS Precautionary Statements:

P102 - Keep out of reach of children.
P103 - Read label before use.
P264 - Wash skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301 - IF SWALLOWED: May cause gastrointestinal irritation. Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
P302 - IF ON SKIN: Prolonged or repeated and confined exposure may cause skin irritation. Wash contaminated clothing and footwear before reuse.
P304 - IF INHALED: Not considered dangerous.
P305 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists consult medical personnel.
P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.



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3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
6834-92-0	<2%	silicic acid (H ₂ SiO ₃), disodium salt
68439-57-6	<6%	Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts
60-00-4	<1%	Ethylenediamine-tetraacetic acid (EDTA)
7758-29-4	<3%	Triphosphoric acid, pentasodium salt
34590-94-8	<5%	Dipropylene glycol methyl ether
68439-50-9	<2%	Alcohols, C12-14, ethoxylated
5989-27-5	<1%	Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-
61789-40-0	<2%	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., inner salts

The exact percentage (or concentration) of ingredients has been withheld as a trade secret.

Composition Comments: Components and trace elements not listed are either non-hazardous or are below reportable limits.

4 FIRST AID MEASURES

Inhalation:	Not considered dangerous.
Skin Contact:	Prolonged or repeated and confined exposure may cause skin irritation. Wash contaminated clothing and footwear before reuse.
Eye Contact:	Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists consult medical personnel.
Ingestion:	Swallowing may cause gastrointestinal irritation. Do not induce vomiting. Rinse mouth with water, then drink one glass of water. If irritation persists consult medical personnel.

5 FIRE FIGHTING MEASURES

Flammability:	NOT FLAMMABLE
EXTINGUISHING MEDIA:	Water
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contained breathing apparatus with a full face piece operated in a pressure demand or other positive pressure mode.

6 ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb liquid on paper, vermiculite, floor absorbent or other absorbent material and transfer to labeled containers.

LARGE SPILL: Stop spill at source, dike area of spill to prevent spreading, pump liquid into salvage tank. Remaining liquid may be taken up on sand, clay, floor absorbent or other absorbent material and shoveled into labeled containers.

WASTE DISPOSAL METHOD: Review Federal, Provincial and Local Government requirements prior to disposal.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Exercise care and caution. Store in cool dry place.

OTHER PRECAUTIONS: Containers of this material may be hazardous when emptied, since emptied containers retain product residues (vapor, liquid and/or solids), all hazard precautions given in the data sheet must be observed.

7 HANDLING AND STORAGE

Handling Precautions:	Keep material out of reach of children.
Storage Requirements:	Store in cool/dry area.



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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment:

RESPIRATORY PROTECTION: If TLV of the product or component is exceeded, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified condition.
Ventilation: Provide general or mechanical ventilation or local exhaust.
PROTECTIVE GLOVES: Use impermeable gloves to prevent skin contact. Use head caps, boots, chemical aprons when necessary.
EYE PROTECTION: Use safety eyewear designed to protect eyes against liquid splash and mists.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use protective clothing to prevent skin contact. Use head caps, boots, chemical aprons when necessary.
WORK/HYGIENIC PRACTICES: Eyewashes and safety showers in the workplace are recommended. Wash hands after using. Monitor exposure levels.

Dipropylene glycol methyl ether (34590-94-8) :

Components with workplace control parameters

TWA 100 ppm USA. ACGIH Threshold Limit Values (TLV)
Eye & Upper Respiratory Tract irritation Central Nervous System impairment Danger of cutaneous absorption

STEL 150 ppm USA. ACGIH Threshold Limit Values (TLV)
Eye & Upper Respiratory Tract irritation Central Nervous System impairment Danger of cutaneous absorption

TWA 100 ppm USA. Occupational Exposure Limits (OSHA) - Table Z- 1
600 mg/m³ Limits for Air Contaminants
Skin designation The value in mg/m³ is approximate.

TWA 100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
600 mg/m³ 1910.1000
Skin notation

STEL 150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
900 mg/m³ 1910.1000
Skin notation

TWA 100 ppm USA. NIOSH Recommended Exposure Limits
600 mg/m³
Potential for dermal absorption

ST 150 ppm USA. NIOSH Recommended Exposure Limits
900 mg/m³
Potential for dermal absorption

Silicic acid (H₂SiO₃), disodium salt (6834-92-0) : no data available
Ethylenediamine-tetraacetic acid (EDTA) (60-00-4) : no data available
Triphosphoric acid, pentasodium salt (7758-29-4) : no data available
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- (5989-27-5) : no data available



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9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber	Odor:	Lemon
Physical State:	Liquid	Solubility:	100% in water
Odor Threshold:	No data available	Freezing/Melting Pt.:	No data available
Spec Grav./Density:	1.06	Flash Point:	No data available
Viscosity:	No data available	Vapor Density:	No data available
Boiling Point:	No data available	Auto-Ignition Temp:	No data available
Flammability:	None	UFL/LFL:	No data available
Partition Coefficient:	No data available		
Vapor Pressure:	No data available		
pH:	8 - 10		
Evap. Rate:	No data available		
Decomp Temp:	No data available		

Meets NFPA® 1851 for mild detergent with a pH range of not less than 6.0 pH and not greater than 10.5 pH

10 STABILITY AND REACTIVITY

Reactivity:	Product is stable under normal conditions.
Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	N/A
Materials to Avoid:	Strong Oxidizing Agents, Acids.
Hazardous Decomposition:	Not known.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Silicic acid (H₂SiO₃), disodium salt (6834-92-0) :

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 1,153 mg/kg

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: Skin - rabbit Result: Severe skin irritation - 24 h

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

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, ACGIH, NTP and OSHA.

Reproductive toxicity: no data available

Reproductive toxicity - rat - Oral:

Effects on Newborn: Stillbirth. Effects on Newborn: Live birth index (# fetuses per litter; measured after birth). Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4).

no data available

Specific target organ toxicity - single exposure: May cause respiratory irritation.

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information: RTECS: VV9275000

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.



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Ethylenediamine-tetraacetic acid (EDTA) (60-00-4) :

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - male and female - 4,500 mg/kg

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: Skin - rabbit Result: No skin irritation

Serious eye damage/eye irritation: Eyes - rabbit Result: Eye irritation

Respiratory or skin sensitisation: Maximisation Test - rabbit Result: Does not cause skin sensitisation.

Germ cell mutagenicity: no data available

Carcinogenicity:

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, ACGIH, NTP and OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: AH4025000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Triphosphoric acid, pentasodium salt (7758-29-4) :

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 3,900 mg/kg

Inhalation LC50 no data available

Dermal LD50 LD50 Dermal - rabbit - 4,640 mg/kg

Other information on acute toxicity

Skin corrosion/irritation: Skin - rabbit - No skin irritation

Serious eye damage/eye irritation: Eyes - rabbit - No eye irritation

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

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, ACGIH, NTP and OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure: Gastrointestinal disturbance, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information: RTECS: YK4570000



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Dipropylene glycol methyl ether (34590-94-8) :

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 5,152 mg/kg

Inhalation LC50 no data available

Dermal LD50

Other information on acute toxicity

Skin corrosion/irritation: Serious eye damage/eye irritation:

Eyes - rabbit - Mild eye irritation - 24 h

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

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, ACGIH, NTP and OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information: RTECS: JM1575000

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- (5989-27-5) :

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 4,400 mg/kg Remarks: Behavioral:Change in motor activity (specific assay). Respiratory disorder Skin and Appendages:

Other: Hair. Inhalation: Irritating to respiratory system.

LD50 Dermal - rabbit - > 5,000 mg/kg

no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: May cause sensitisation by skin contact.

Germ cell mutagenicity: no data available

Carcinogenicity:

Carcinogenicity - rat - Oral:

Tumorigenic:Carcinogenic by RTECS criteria. Kidney, Ureter, Bladder:Kidney tumors. Tumorigenic Effects: Testicular

Carcinogenicity - mouse - Oral:

Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Gastrointestinal:Tumors.

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (D-Limonene)

Carcinogenicity:

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 ACGIH, NTP and OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information: RTECS: GW6360000

Liver - Irregularities - Based on Human Evidence



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12 ECOLOGICAL INFORMATION

Silicic acid (H₂SiO₃), disodium salt (6834-92-0) :

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

Ethylenediamine-tetraacetic acid (EDTA) (60-00-4) :

Information on ecological effects

Toxicity:

Toxicity to fish static test LC₅₀ - *Lepomis macrochirus* (Bluegill sunfish) - 41 mg/l - 96 h.

Toxicity to daphnia and static test EC₅₀ - *Daphnia magna* (Water flea) - 625 mg/l - 48 h.

other aquatic invertebrates

Persistence and degradability: Bioaccumulative potential:

Bioaccumulation *Lepomis macrochirus* - 28 d - 80 µg/l

Bioconcentration factor (BCF): 1.8

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: May be harmful to aquatic organisms due to the shift of the pH. Avoid release to the environment.

Triphosphoric acid, pentasodium salt (7758-29-4) :

Information on ecological effects

Toxicity:

Toxicity to daphnia EC₅₀ - *Daphnia* - 276.61 mg/l - 48 h.

and other aquatic invertebrates

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

Dipropylene glycol methyl ether (34590-94-8) :

Information on ecological effects

Toxicity:

Toxicity to fish LC₅₀ - *Pimephales promelas* (fathead minnow) - > 10,000 mg/l - 96 h.

Toxicity to daphnia EC₅₀ - *Daphnia magna* (Water flea) - 1,919 mg/l - 48 h.

and other aquatic invertebrates

Persistence and degradability: Biodegradability

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available



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Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- (5989-27-5) :

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 0.702 mg/l - 96.0 h.

Toxicity to daphnia and EC50 - Daphnia pulex (Water flea) - 69.6 mg/l - 48 h.

other aquatic

invertebrates

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

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DISPOSAL CONSIDERATIONS

Waste Disposal Method: Review Federal, Provincial and Local Government requirements prior to disposal.

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TRANSPORT INFORMATION

Non-hazardous.

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REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Silicic acid (H₂SiO₃), disodium salt (6834-92-0) TSCA

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6) TSCA

Triphosphoric acid, pentasodium salt (7758-29-4) TSCA

Dipropylene glycol methyl ether (34590-94-8) MASS, OSHAWAC, PA, TSCA, TXAIR

Alcohols, C12-14, ethoxylated (68439-50-9) TSCA

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., inner salts (61789-40-0) TSCA

SARA Title III chemicals: None

California Prop 65 chemicals: This product contains no chemicals known to the State of California to cause cancer or reproductive toxicity.

CERCLA reportable quantity: None

RCRA hazardous waste no: None

Regulatory CODE Descriptions

RQ = Reportable Quantity

TSCA = Toxic Substances Control Act

MASS = MA Massachusetts Hazardous Substances List

OSHA = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TXAIR = TX Air Contaminants with Health Effects Screening Level





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16 OTHER INFORMATION

HMIS III: Health = 2, Fire = 0, Physical Hazard = 0

HMIS PPE: B - Safety Glasses, Gloves

HMIS		PPE	
HEALTH	2		
FLAMMABILITY	0		
PHYSICAL HAZARD	0		
PERSONAL PROTECTION	B		

HMIS Index: 1-slight , 2-moderate, 3-serious, 4-severe

The information contained herein has been compiled from sources believed to be reliable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. Winsol Laboratories, Inc. assumes no responsibility for injury to any person or property resulting from any use of the material. Each user assumes the risk in their use of this product and should review the data and recommendations in the specific context of their intended use.

Sections 11 and 12 are based on composition of 100% raw materials.

ISSUE DATE: 05/13/15
REVISION DATE: 11/05/15
REVISIONS: section 2