

Safety Data Sheet

Specialty Fabric Cleaner

Prepared Date: 08/31/15

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME: Specialty Fabric Cleaner
PRODUCT CODE: 5094
SYNONYMS: Product is a mixture: No synonyms are available.
PRODUCT USE: Cleaning high-tech fabrics such as GORE-TEX™, bunker liners and turnout gear.

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE: Cleaning agent
USES ADVISED AGAINST:..... Use only as stated on label

SUPPLIER:..... **WINSOL LABORATORIES INC.**
SUPPLIER'S ADDRESS: 1417 NW 51ST ST. Seattle, WA 98107 (206) 782-5500
EMERGENCY RESPONSE NUMBER: INFOTRAC 800-535-5053 (North America), 1 352-323-3500 (International)

This Safety Data Sheet is authored according to information that was provided by the raw material manufactures. This information does not exempt the end user from the responsibility of executing their own testing for proper classification.

SECTION 2 – HAZARD IDENTIFICATION

CLASSIFICATION: Health, Acute toxicity, 4 Oral
Health, Skin corrosion/irritation, 3
Health, Serious Eye Damage/Eye Irritation, 2 A
Environmental, Hazards to the aquatic environment - Acute, 3
Environmental, Hazards to the aquatic environment - Chronic, 4

LABEL ELEMENTS: The product is classified and labeled according to the Globally Harmonized System (GHS)

HAZARD PICTOGRAMS:



SIGNAL WORD: WARNING

HEALTH HAZARD STATEMENT: H303 May be harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H402 Harmful to aquatic life
H413 May cause long-lasting harmful effects to aquatic life

PRECAUTIONARY STATEMENTS: ... P102 Keep out of reach of children.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P281 Use personal protective equipment as required.
 P301 + P312 **IF SWALLOWED:** Call a POISON CENTER or doctor/physician if you feel unwell.
 P302 + P352 **IF ON SKIN:** Wash with plenty of soap and water.
 P305 + P351 + P338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308 + P313 **IF exposed or concerned:** Get medical advice/attention.
 P330 Rinse mouth.
 P332 + P313 if skin irritation occurs: Get medical advice/attention.
 P337 + P313 If eye irritation persists: Get medical advice/attention.
 P362 + P364 Take off contaminated clothing and wash before reuse.
 P401 Store in a cool dry place.
 P501 Dispose of contents/container in accordance with current legislation.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION: ... Mixtures

DESCRIPTION: Mixture of the substances listed below with nonhazardous additions.

COMPONENT	PERCENT	CAS #	EC #	Trade Secret
Alcohols, C9-11, ethoxylated	20-30	68439-46-3	5002133	*
Dehydroacetic Acid	.05-.1	520-45-6	2082939	*
Benzyl Alcohol	.05-.1	100-51-6	2028599	*
Imidazolidine	.05-.1	6440-58-0	2292228	*
Fragrance	.05-.1			
Balance of ingredients non hazardous	balance			*

*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.

SECTION 4 – FIRST AID MEASURES

EYE CONTACT:..... Immediately flush with plenty of running water for at least 15 minutes, keeping eyelids open. Remove contact lenses if easy to do. Seek prompt medical attention if irritation persists.

SKIN CONTACT:..... Remove contaminated clothing and shoes. Wash affected areas with plenty of running water, preferably under a shower.

SWALLOWING (INGESTION):..... Rinse mouth. Do not induce vomiting. Vomiting should only be induced by medical personnel. If vomiting occurs, keep the head lower than chest to avoid aspiration into the lungs. Never give anything by mouth to an unconscious or convulsing person.

INHALATION: Usually not an area of concern however if person has difficulty breathing then seek prompt medical attention. Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

OTHER INSTRUCTIONS: None Known

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MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

INGESTION: In large amounts may cause: Abdominal discomfort. Gastrointestinal irritation. Nausea. Diarrhea. Effects by comparison with homologues

INHALATION: Due to your low vapor pressure, is unlikely to cause inhalation problems at room temperature. Vapors from the liquid at high temperatures or mist of the product, in high concentrations, may cause irritation of the respiratory system.

SKIN: Repeated and/or prolonged contact may cause: Moderate irritation. Dermatitis.

EYES: May cause severe irritation. Damage to the cornea.

INFORMATION FOR DOCTOR: There is not known any specific antidote. Direct the treatment in accordance with the symptoms and clinical conditions of the patient.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: In case of fire, use: Alcohol resistant foam. Water spray. Carbon dioxide (CO₂). Dry chemical powder.

SPECIFIC HAZARDS: Product is not flammable. In case of combustion it may generate carbon monoxide, besides CO₂.

SPECIAL PROTECTIVE EQUIPMENT

AND PRECAUTIONS FOR FIRE FIGHTERS: Water jets should not be used directly on igniting products because it may disperse the material and intensify the fire. Self-contained breathing apparatus and protective clothing are required. Cool the intact fire-exposed containers with water spray and remove them.

UNUSUAL FIRE AND

EXPLOSION HAZARDS: No further relevant information is available.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT

AND EMERGENCY PROCEDURES: .. Isolate and signalize area. Keep heat and/or ignition sources away. Use personal protection equipment as indicated in Section 8, in order to avoid contact with spilled product.

ENVIRONMENTAL PRECAUTIONS:.. Prevent product from entering into soil and waterways. Notify the competent authorities if the product has run into drainage systems or watercourse or has contaminated the ground or vegetation.

METHODS AND MATERIALS FOR

CONTAINMENT AND CLEAN UP: ... Stop if possible. Contain and dike spilled product with earth or sand. Eliminate ignition or heat sources. Transfer to proper container. Collect remnants with an appropriate absorbent material. Wash the contaminated surface with water, which should be collected for disposal.

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SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Use in well-ventilated area. Avoid inhalation and contact with eyes, skin or clothing through proper protection. If accidental contact occurs, exposed area should be washed immediately. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse.

CONDITIONS FOR SAFE STORAGE: Store in covered and well-ventilated area, away from sunlight and sources of heat or open flames. Ensure that the storage location has adequate moisture, pressure and temperature. Keep containers tightly closed when not in use.

INCOMPATIBILITIES:.....Avoid contact with: Strong oxidizing agents. Strong acids and bases at high temperatures. Compounds with high affinity for hydroxyl groups.

PACKAGING MATERIAL:Recommended: Stainless steel. High density polyethylene. Low density polyethylene. Coated steel with: Epoxy resin. Polyvinyl chloride (PVC). Polyester resin reinforced with fiber glass.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION (based on 100% raw materials)

TLV (THRESHOLD LIMIT VALUE): ...The TLV in section in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

Product contains trace elements:

COMPONENT	(USA)	TLV-TWA (ACGIH)	PEL-TWA (OSHA)	TLV-STEL (ACGIH)
1,4-Dioxane (trace elements)		20 ppm; 72 mg/m ³ (Skin).	100 ppm; 360 mg/m ³ (Skin).	Not Established
Ethylene oxide (trace elements)		1 ppm; 1.8 mg/m ³ .	1 ppm.	Not Established

LT (NR15): Not established

ODOR THRESHOLD:..... Not available.

IDLH: 1,4-Dioxane: 500 ppm.
Ethylene oxide: 800 ppm.

BIOLOGICAL EXPOSURE INDICES

(ACGIH):..... Not available.

ENGINEERING CONTROL

MEASURES: In closed environments, this product should be handled keeping proper exhaust (general diluter or local exhaust).

INDIVIDUAL PROTECTION MEASURES:

EYE PROTECTION:..... Side shields or wide vision safety goggles.

SKIN PROTECTION:..... PVC apron. It is recommended to adopt safety boots/shoes.

HAND PROTECTION:..... Gloves made of: Rubber. PVC (Polyvinyl chloride).

RESPIRATORY PROTECTION: In case of emergency or contact with high concentrations of the product, wear an air supplied mask or self contained breathing apparatus. It is recommended to wear face mask with organic vapors cartridge in case of exposure to vapors/aerosols.

VENTILATION: Ensure adequate ventilation.

ADDITIONAL MEASURES: Emergency eyewash and safety shower facilities should be available in the immediate work area.

REQUIRED WORK/HYGIENE: Wash hands thoroughly after handling. Keep away from all food stuffs, beverages and feed. Do not eat, drink or smoke in work area.

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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Liquid. Clear to light straw
ODOR AND ODOR THRESHOLD: Mild fragrance
pH: 5.5 to 6 (sol. 1% w/w; 25°C.)
MELTING POINT/FREEZING POINT: <15°C (start of turbidity).
BOILING POINT: Not available
FLASHPOINT: ca. 210°C (open cup).
EVAPORATION RATE: Not available
FLAMMABILITY (SOLID/GAS): Not applicable.
LOWER FLAMMABILITY LIMIT: Not available.
UPPER FLAMMABILITY LIMIT: Not available.
EXPLOSIVE LIMIT: Not available.
VAPOR PRESSURE: <0.001 kPa (20°C).
VAPOR DENSITY (AIR=1): Not available.
RELATIVE DENSITY (WATER=1): Not applicable.
APPARENT DENSITY: Not applicable.
SOLUBILITY: Soluble in water
AUTO-IGNITION TEMPERATURE: ... Not available
DECOMPOSITION TEMPERATURE: Not available
VISCOSITY: Not available

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use and storage.
REACTIVITY: No hazardous reactivity is expected.
HAZARDOUS REACTIONS: Not polymerize.
CONDITIONS TO AVOID: High temperatures, ignition sources and prolonged exposure to the air.
INCOMPATIBLE MATERIALS: Avoid contact with: Strong oxidizing agents. Strong acids and bases at high temperatures. Compounds with high affinity for hydroxyl groups.
HAZARDOUS DECOMPOSITION PRODUCTS: In case of combustion it may generate carbon monoxide, besides CO₂.
CONSIDERATIONS ON THE USE OF THE PRODUCT: Not available.

SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: (based on 100% raw materials)
ORAL: LD50, rat: 1 g/kg.
INHALATION: LD50, 4h, rat: >1.6 mg/ L.
DERMAL: LD50, rat: 2000 mg/kg.

SKIN CORROSION/IRRITATION: Slight irritation (500 mg, 24H, rabbit).
**SERIOUS EYE DAMAGE/
EYE IRRITATION:** Severe irritant (100 mg, 24H rabbits).
**RESPIRATORY OR SKIN
SENSITIZATION:** Not a skin sensitizer to guinea pigs.

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GERM CELL MUTAGENICITY: Negative in Ames test with and without metabolic activation.

CARCINOGENICITY: Not available.

REPRODUCTIVE TOXICITY:..... Not available.

SPECIFIC TARGET ORGAN TOXICITY

-SINGLE EXPOSURE :..... Not available.

SPECIFIC TARGET ORGAN TOXICITY

-REPEATED EXPOSURE :..... Not available.

ASPIRATION HAZARD:..... Not available.

SECTION 12 – ECOLOGICAL INFORMATION

(based on 100% raw materials)

ECOTOXICITY:..... Fish – LC50, 96h, Cyprinus carpio: 1.4 mg/L (static).
Invertebrate – LC50, 48h, Daphnia magna: 6.46 mg/L.
Algae – NOEC: 0.31 mg/L (growth rate).

BIODEGRADABILITY: Readily biodegradable. 74% by BOD after 28 days.

BIOACCUMULATIVE POTENTIAL: ... Bioconcentration potential in aquatic organisms is low.

MOBILITY IN SOIL:..... It is expected to have high mobility in soil.

OTHER ADVERSE EFFECTS: Water hazard class 2: Hazard to water.

SECTION 13 – DISPOSAL CONSIDERATIONS

PRODUCT: The preferred option for disposal include reuse, recycling, co-processing, finding a use for a by-product, incineration or other thermal destruction process at licensed facilities. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. Perform co-processing, incineration or other thermal destruction process at facilities capable of minimizing or reducing air pollution emissions. The disposal must comply with federal, state and local laws and regulations in accordance with the environmental agencies.

PRODUCT REMAINS: Same method as indicated for product.

PACKAGING: Do not cut or pierce the packaging, nor do hot work near them. Do not remove labels until the product has been fully removed and the packaging cleaned. The preferred options for disposal include reuse, recycling or reclamation at licensed facilities. All procedures must follow specific operations standards in order to reduce health, safety and environmental risks. The disposal must comply with local legislation and in accordance with standards from local environmental agencies.

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SECTION 14 – TRANSPORTATION INFORMATION

LAND TRANSPORT U.S. DOT:..... Product not classified as hazardous in accordance with Resolution 420/2004 – Transport Ministry.

PACKAGING TYPE:..... Bulk and non-bulk

PROPER SHIPPING NAME:..... Not classified.

HAZARD CLASS OR DIVISION:..... Not classified.

ID NUMBER:..... Not classified

PACKAGING GROUP:..... Not classified

REMARKS:..... Not classified

MARITIME TRANSPORT IMDG: Product not classified as hazardous in accordance with IMDG Code – 2012 Edition – IMO (International Maritime Organization).

UN NUMBER: Not classified

PROPER SHIPPING NAME:..... Not classified

PACKAGING GROUP:..... Not classified

EmS:..... Not classified

AIR TRANSPORT ICAO-TI and IATA-DGR:

Product not classified as hazardous in accordance with Dangerous Goods Regulations – 55th Edition – IATA (International Air Transport Association).

UN NUMBER: Not classified

PROPER SHIPPING NAME:..... Not classified

ICAO/IATA CLASS: Not classified

Label: Not classified

PACKAGING GROUP:..... Not classified

SECTION 15 – REGULATORY INFORMATION (based on 100% raw materials)

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

APPLICABLE STANDARDS: Resolution 420/2004 – Transport Ministry.
Dangerous Goods Regulations – 55th Edition – IATA (International Air Transport Association).
IMDG Code – 2012 Edition – IMO (International Maritime Organization).
Dangerous Goods by Road (ADR) – Available from January 1st, 2011 – UNECE (United Nations Economic Commission for Europe).

OSHA HAZARD COMMUNICATION

STANDARD:..... This product contains a “Hazardous Chemical” as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA TITLE III – SECTIONS 311/312

(40 CFR 370 SUBPARTS B AND C): . Immediate (Acute) Health Hazard: Yes.
Delayed (Chronic) Health Hazard: No.
Fire Hazard: No.
Reactive Hazard: No.
Sudden Release of Pressure Hazard: No.

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SARA TITLE III – SECTION 313

(40 CFR 372.65): This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

SARA TITLE III – SECTIONS 302

(40 CFR 355 APPENDIX A): Ethylene oxide (CAS 75-21-8): 1 ppm. TPQ: 1000 lbs.

CERCLA (40 CFR 302.4)/SARA 304: 1,4-Dioxane (CAS 123-91-1): 10 ppm. RQ: 100 lbs.

Ethylene oxide (CAS 75-21-8): 1 ppm. RQ: 10 lbs.

Reportable Quantity (RQ) of this product is 10,000,000 pounds based upon 1,4-Dioxane/Ethylene oxide which yielded the lowest resultant RQ according to the following formula : CERCLA ingredient RQ/ % of that ingredient in the product.

NEW JERSEY HAZARDOUS

SUBSTANCE LIST: 1,4-Dioxane: Substance# 0789 (Special Health Hazard Code: CA – Carcinogen; F3 – Flammable 3rd degree).

Ethylene oxide: Substance# 0882 (Special Health Hazard Code: CA – Carcinogen: MU – mutagen; TE – Teratogen; F4 – Flammable 4th degree; R3 – Reactive 3rd degree).

CALIFORNIA PROPOSITION 65

(SAFE DRINKING WATER AND TOXIC

ENFORCEMENT ACT) : WARNING! This product contains a chemical known in the State of California to cause cancer. – 1,4-Dioxane. – Ethylene oxide.

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm. – Ethylene oxide.

PENNSYLVANIA HAZARDOUS

SUBSTANCE LIST: 1,4-Dioxane (CAS 123-91-1) and Ethylene oxide (CAS 75-21-8) : Listed also as an environmental hazard and as a special hazardous substance.

INVENTORY STATUS: United States & Puerto Rico – Toxic Substances Control Act (TSCA) Inventory: Yes

Canada – Domestic Substances List (DSL): Yes.

Canada – Non-Domestic Substances List (NDSL): No.

Australia – Australian Inventory of Chemical Substances (AICS): Yes.

China – Inventory of Existing Chemical Substances in China (IECSC): Yes.

Europe – European Inventory of Existing Commercial Chemical Substances (EINECS): No

Europe – European List of Notified Chemical Substances (ELINCS): No.

Japan – Inventory of Existing and New Chemical Substances (ENCS): Yes.

Korea – Existing Chemicals List (SCL): Yes.

New Zealand – New Zealand Inventory: Yes.

Philippines – Philippine Inventory of Chemicals and Chemical Substances (PICCS): Yes

*a “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

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SECTION 16 – OTHER INFORMATION

REFERENCES:.....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.

ABBREVIATIONS AND ACRONYMS:

ACGIH:.....American Conference of Governmental Industrial Hygienists (USA).
ADR:European agreement concerning the international carriage of dangerous goods by road.
BOD:.....Biochemical Oxygen Demand.
CAS:.....Chemical Abstracts Service (American Chemical Society – EUA).
EC50:Average concentration for 50% of maximum response.
EINECS:European Inventory of Existing Commercial Chemical Substances.
GHS:Globally Harmonized System for Classification and Labelling of Chemicals.
IARC:.....International Agency for Research on Cancer.
IATA:.....International Air Transport Association.
IATA-DGR: .Dangerous Goods by Regulations by the IATA.
ICAO:International Civil Aviation Organization.
ICAO-TI:Technical Instructions by the ICAO.
IDLH:.....Immediately Dangerous to Life or Health Concentrations.
IMDG:.....International Maritime Code for Dangerous Goods.
Kow:Octanol/water partition coefficient.
LC:Lethal Concentration – substance concentration in the environment that leads to death after a certain period of exposure.
LC50:.....Lethal concentration for 50% of the test animals.
LD50:Lethal Dose for 50% of the test animals.
LDLo:Lethal Dose Low – minimal amount of a chemical lethal to animals in testing.
LOAEL:Lowest Adverse Effect Level
LOLI:List Of Lists™ – ChemADVISOR’s Regulatory Database
LT (NR 15):..Exposure limits of the standard number 15 – Unhealthy Operations and Activities from the Ministry of Labour and Employment of Brazil.
NIOSH:.....National Institute for Occupational Safety and Health.
NLP:.....No Longer Polymers.
NOAEL:No Observed Adverse Effect Level.
NTP:.....National Toxicology Program.
OSHA:Occupational Safety and Health Administration (EUA).
PEL-TWA:...Exposure Limit Allowed – time weighted average.
RID:Regulations concerning the international transport of dangerous goods by rail.
TLV-STEL:...Tolerance Limit – short period of time (15 minutes, maximum).
TLV-TWA: ..Tolerance Limit – time weighted average.
WGK:Wassergefährdungsklasse (Germany) – Water Hazard Class.
UNECE:United Nations Economic Commissions for Europe.
IMO:International Maritime Organization.

DATE PREPARED:.....05/12/15

DATE REVISED:08/31/15

REVISIONS:Section 1, 3, & 9