



Turnout Spotter

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Turnout Spotter
SDS Number: 5147, 5206
Revision Date: 12/13/2017
Product Description: Citrus Based Presoak & Hard Stain Remover
Product Use: Removes tar, grease, diesel, paint and most plastic residues from Nylon, PBI™, Kevlar™, Nomex™, and Polypropylene. Not for use on inner barrier fabric liners.
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):

Physical, Flammable Liquids, 4
Health, Acute toxicity, 5 Oral
Health, Skin corrosion/irritation, 2
Health, Respiratory or skin sensitization, 1 Skin
Health, Serious Eye Damage/Eye Irritation, 2 B
Environmental, Hazards to the aquatic environment - Chronic, 3

GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

H227 - Combustible liquid
H303 - May be harmful if swallowed
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H320 - Causes eye irritation
H412 - Harmful to aquatic life with long lasting effects

GHS Precautionary Statements:

P102 - Keep out of reach of children.
P103 - Read label before use.
P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing and footwear before reuse.
P304 - IF INHALED: Remove to fresh air.



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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 - Prolonged or repeated and confined exposure may cause skin irritation. If skin irritation or a rash occurs: Get medical advice/attention.

P370+378 - In case of fire: Use water, CO₂, foam or dry powder for extinction.

P403 - Store in a well ventilated place. Keep container tightly closed. Keep cool.

P501 - Dispose of contents/container in accordance with Federal, Provincial and Local Government requirements.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
34590-94-8	>50%	Dipropylene glycol methyl ether
5989-27-5	<50%	Orange Terpenes

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: Remove to fresh air. If symptoms persist, call a physician. Immediate medical attention is not required. Move to fresh air in case of inhalation of vapors.

Skin Contact: Prolonged or repeated and confined exposure may cause skin irritation. If skin irritation or a rash occurs: Get medical advice/attention. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. 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. Risk of damage to lungs exceeds poisoning risk. Drink plenty of water. Immediate medical attention is not required. Rinse mouth. Clean mouth with water and drink afterwards plenty of water. If irritation persists consult medical personnel.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet, if possible). If symptoms persist, call physician. Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5 FIRE FIGHTING MEASURES

Flammability: Combustible

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water, CO₂, Foam, Dry Powder.

Unsuitable Extinguishing Media: Caution: use of water stream when fighting fire may be inefficient. Large Fire: General extinguishing powder.

Specific Hazards during Fire Fighting: In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Heat from fire can generate flammable vapors. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Flammable vapors may be heavier than air and travel long distances along the ground before igniting and flashing back to vapor source. Fine sprays/mists may be combustible at temperatures below normal flash point. Heat may build enough pressure to rupture closed containers/spreading fire/increasing risk of burns/injuries. Cool containers with flooding quantities of water until well after fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Move containers from fire area if it can be done without risk. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.



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Special Protective Equipment and Precautions for Fire-Fighters: Wear an approved self-contained breathing apparatus with a full face piece operated in a pressure demand or other positive pressure mode and firefighter turnout gear. Structural firefighter's protective clothing will only provide limited protection.

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ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions: Evacuate personnel to safe areas. Use personal protective equipment as required. Clean-up to be performed only by trained and properly equipped personnel. Eliminate all sources of ignition. Ensure adequate ventilation, especially in confined areas. Keep people away from upwind of spill/leak.

Environmental Precautions

Environmental Precautions: Prevent further leakage or spillage, if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer systems.

Methods and Materials for Containment and Cleaning Up

Methods for Containment: Prevent further leakage or spillage, if safe to do so.

Methods for Cleaning Up: Pick up and transfer to properly labels containers. Dam up. Absorb or cover with dry earth, sand or other non-combustible material and transfer to labeled containers. Use clean non-sparking tools to collect absorbed material.

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HANDLING AND STORAGE

Handling Precautions: Keep material out of reach of children.

Advice on Safe Handling: Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep away from heat, sparks, flame and other sources of ignition. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Never use air pressure for transferring product.

Storage Requirements: Keep properly labeled containers tightly closed in a cool, well-ventilated place. Flammable mixtures may exist within the vapor space of containers at room temperature. Minimize sources of ignition, such as static build-up, heat, spark or flame. 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.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment:

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).



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Skin and body protection: Impervious clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Exposure Guidelines/Other:

Components with workplace control parameters

Dipropylene glycol methyl ether (34590-94-8) [>50%]

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

Orange Terpenes (5989-27-5) [<50%] : no data available

9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance:	Clear	Odor:	Citrus
Physical State:	Liquid	Solubility:	Miscible
Odor Threshold:	No data available	Freezing/Melting Pt.:	No data available
Spec Grav./Density:	0.9	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:	Combustible	UFL/LFL:	No data available
Partition Coefficient:	No data available		
Vapor Pressure:	No data available		
pH:	6.5		
Evap. Rate:	No data available		
Decomp Temp:	No data available		



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10 STABILITY AND REACTIVITY

Reactivity:	Product is stable under normal conditions.
Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Heat, open flame, sparks, other ignition sources, and oxidizing conditions.
Materials to Avoid:	Strong acids. Strong bases. Strong oxidizers.
Hazardous Decomposition:	Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Aldehydes. Keytones. Organic acids.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Dipropylene glycol methyl ether (34590-94-8) [>50%]

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, 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

Orange Terpenes (5989-27-5) [<50%]

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



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Carcinogenicity:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH, NTP, OSHA.

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

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.

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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ECOLOGICAL INFORMATION

Dipropylene glycol methyl ether (34590-94-8) [>50%]

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

Orange Terpenes (5989-27-5) [<50%]

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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13 DISPOSAL CONSIDERATIONS

Waste Disposal Method: Review Federal, Provincial and Local Government requirements prior to disposal. Do not reuse container.

14 TRANSPORT INFORMATION

NA1993, Combustible liquid, n.o.s., Combustible liquid, PGIII

Special Provisions: DOT - 173.50 exception applies (not hazardous to ship ground under 110 gallons).

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Dipropylene glycol methyl ether (34590-94-8) [>50%] MASS, OSHAWAC, PA, TSCA, TXAIR
Orange Terpenes (5989-27-5) [<50%] TSCA

All ingredients for this product are listed on the TSCA inventory.

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

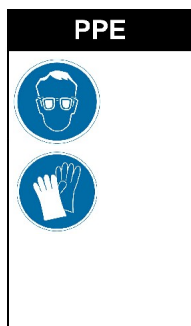
MASS = MA Massachusetts Hazardous Substances List
OSHA = OSHA workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level

16 OTHER INFORMATION

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

HMIS PPE: B - Safety Glasses, Gloves

HMIS	
HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B



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



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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: 05/28/15
REVISION DATE: 12/13/17
REVISIONS: 3 year revision/review