SR-71 Safety Data Sheet

1 Product and Company Identification

Product Identifier: SR-71 Turnout and PPE Cleaner

Supplier Details: Northwest Safety Clean - South Campus
5004 SE Johnson Creek Blvd.
Milwaukie, OR 97222
(503) 775-2114

Recommended Use: Multi-function Cleaning and Decontamination for all PPE Advanced Fibers in Turnouts, including Proximity Gear, Controlled Atmosphere Gear, harnesses and straps, boots, helmets and other specialty PPE.

2 Hazards Identification

Classification of the Substance or Mixture: *GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)*

Health, acute toxicity	4 Oral
	5 Dermal
Health, skin corrosion/irritation	2
Health, serious eye damage/eye irritation	2B

GHS Label Elements Including precautionary Statements:

GHS Signal Word: WARNING

GHS Hazard Pictograms:

GHS Hazard Statements:
H302 – Harmful if swallowed
H313 – May be harmful in contact with skin
H315 – Causes skin irritation
H320 – Causes eye irritation

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 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)* Remove to fresh air
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 rash occurs: get medical advice/attention

3 Composition/Information on Ingredients

Ingredients:

Cas#	*%*	*Chemical Name*
61789-40-0	<2%	1-Propanaminium, 3-amino-N-(carboxymethyl) –N, N-dimethyl-, N-coco acyl derivs., inner salts
68439-50-9	<2%	Alcohols, C12-14, ethoxylated
5989-27-5	<1%	Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-
34590-94-8	<5%	Dipropylene glycol methyl ether
60-00-4	<1%	Ethylenediamine-tetraacetic acid (EDTA)
6834-92-0	<2%	Silicic acid (H2Si03), disodium salt
68439-57-6	<6%	Sulfonic acids, C14-16-alkane hydroxyl and C14-16-alkene, sodium salts
7758-29-4	<3%	Triphosphoric acid, Pentasodium salt

*The exact percentages and/or concentrations of ingredients have been withheld as a trade secret.

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

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4 First Aid Measures

Inhalation: Not considered dangerous. Remove to fresh air.

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 Firefighting Measures

Flammability: Not flammable

Extinguish: Water

Special Firefighting 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.

8 Exposure Controls/Personal Protection

Respiratory Protection: If TLV of the product or component is exceeded, a NIOSH/MSHA jointly approved air supplied respirator is advised in absense of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified condition.

Ventilation: Provide general or mechanical ventilation or local exhaust to keep vapor concentrations below TLV of materials in section 2 and LEL in section 9.

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 saftey showers in the workplace are recommended. Wash hands after using. Monitor exposure levels.

Dipropylene glycol methyl ether (34590-94-8) [<5%] 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

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- (5989-27-5) [<1%] : no data available Ethylenediamine-tetraacetic acid (EDTA) (60-00-4) [<1%] : no data available
Silicic acid (H2SiO3), disodium salt (6834-92-0) [<2%] : no data available Triphosphoric acid, pentasodium salt (7758-29-4) [<3%] : no data available

9 Physical and Chemical Properties

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

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) [<2%]

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

Specific target organ toxicity

Single Exposure:	May cause respiratory irritation.	**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.

Ethylenediamine-tetraacetic acid (EDTA) (60-00-4) [<1%]

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:	skin- 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 **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) [<3%]

Information on toxicological effects
Acute toxicity: LD50 Oral – rat 3,900 mg/kg **Inhalation:** no data available
Dermal: Rabbit – 4,640 mg/kg **Skin corrosion/irritation:** Skin - rabbit
Result: No skin irritation **Serious eye damage/eye irritation:** Eyes - rabbit
Result: No eye irritation
Respiratory or skin sensitisation: no data available **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 **Repeated Exposure:** 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

Dipropylene glycol methyl ether (34590-94-8) [<5%]

Information on toxicological effects
Acute toxicity: LD50 Oral – rat 5,152 mg/kg **Inhalation:** no data available
Dermal: LD50 **Skin corrosion/irritation:** no data available
Result: no data available **Serious eye damage/eye irritation:** Eyes - rabbit
Result: Mild eye irritation – 24 hrs
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

Specific target organ toxicity
Single Exposure: no data available **Repeated Exposure:** 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: JM1575000

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- (5989-27-5)[<1%]

Information on toxicological effects
Acute toxicity: LD50 Oral – rat 4,400 mg/kg **Remarks:** Behavioral change in motor activity.

Inhalation: Irritating to respiratory system
Dermal: rabbit - >5,000mg/kg
Skin corrosion/irritation: no data available
Result: no data available
Serious eye damage/eye irritation: no data available
Result: no data available
Respiratory or skin sensitisation: no data available
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
Repeated Exposure: no data available
Aspiration hazard: no data available
Additional Information: RTECS: GW6360000
Liver - Irregularities - Based on Human Evidence

12 Ecological Information

Silicic acid (H2SiO3), disodium salt (6834-92-0) [<2%]

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) [<1%] 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) [<3%] 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) [<5%] 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

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- (5989-27-5) [<1%]

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.

13 Disposal Considerations

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

14 Transportation Information

Non-hazardous

15 Regulatory Information

Component (CAS#) [%] - CODES

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., inner salts (61789-40-0) [<2%] TSCA Alcohols, C12-14, ethoxylated (68439-50-9) [<2%] TSCA

Dipropylene glycol methyl ether (34590-94-8) [<5%] MASS, OSHAWAC, PA, TSCA, TXAIR Silicic acid (H2SiO3), disodium salt (6834-92-0) [<2%] TSCA

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6) [<6%] TSCA Triphosphoric acid, pentasodium salt (7758-29-4) [<3%] 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 List

MASS = Massachusetts Hazardous Substances

OSHAWAC = OSHA Workplace Air Contaminants

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

TXAIR = TX Air Contaminants with Health Effects Screening Level

16 Other Information

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

HMIS PPE: B - Safety Glasses, Gloves

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. Northwest Safety Clean 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

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