Shield Solutions
Innovative Chemical Solutions for the Public Safety Industry

CHIEF'S SHIELD Products

TURN OUT GEAR & PPE WASH

Safety Data Sheet

Emergency Number: 1-920-474-7502

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME AND IDENTIFICATION: Turn Out Gear and PPE Wash	**COMPANY NAME AND ADDRESS:** **Shield Solutions, LLC** W1737 Washington Rd Oconomowoc, WI 53066 USA
CHEMICAL NAME, USE AND RESTRICTIONS: General purpose Gear Wash for industrial and commercial use only	**EMERGENCY PHONE:** 920-474-7502 / **NON-EMERGENCY PHONE:** 920-474-7502 (8am – 5pm CST)
TRADE NAME: Gear Wash	**EMAIL ADDRESS:** info@shieldsolutionsllc.com / **WEBSITE:** shieldsolutionsllc.com

SECTION 2: HAZARDS IDENTIFICATION & GHS CLASSIFICATION

HEALTH	ENVIRONMENTAL	PHYSICAL
Acute Toxicity: None Known **Skin Sensitization:** None Known **Skin Irritation:** Category 5 **Eye Irritant:** Category 2A	**Acute Toxicity:** None Known **Chronic Toxicity:** None Known	None Established

GHS LABEL:

SIGNAL WORD: WARNING

Not a dangerous substance according to GHS Classification
No ingredients are hazardous according to HCS criteria.

WHMIS CLASSIFICATION:
Not a dangerous substance according to WHMIS Classification

HAZARD STATEMENTS	GENERAL PRECAUTIONARY STATEMENTS	
H303: May be harmful if swallowed **H316:** Causes mild skin irritation **H320:** Causes eye irritation	**P101:** If medical advice is needed, have product container or label at hand **P102:** Keep out of reach of children **P103:** Read label before use Precautionary Statements **P202:** Do not handle until all safety precautions have been read and understood	**P234:** Keep only in original container **P235:** Keep cool. **P270:** Do not eat, drink or smoke when using this product **P403+233:** Store in a well ventilated place. Keep container tightly closed

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT - COMMON NAME (SYNONYMS)	WEIGHT PERCENT	CAS NUMBER	RECOMMENDED LIMITS
Tripropylene Glycol Monomethyl Ether	> 5.0	25498-49-1	Dermal LD50:15,400 mg/kg Rabbit
Proprietary blend of non-hazardous components**	> 1.0	Proprietary Blend**	Not Determined
Water (Dihydrogen Monoxide)	75-95 %	7732-18-5	Not Determined

*** This product also contains a proprietary blend of non-hazardous components covered under OSHA Trade Secrets (29 CFR 1910.1200(i)) section.*

SECTION 4 – FIRST AID MEASURES

INGESTION	SKIN CONTACT	EYE CONTACT	INHALATION
Do not eat or drink this material in concentrated or dilute form. Product may cause nausea and weakness if consumed. **If Ingested:** Drink a quart of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician promptly.	For concentrated product or diluted product, rinse affected area with fresh water. It is a good idea to wash soaked or heavily contaminated clothing before reuse. After flushing skin, use skin lotion to restore moisture to the skin and relieve possible dryness or redness.	Flush eyes thoroughly for 20 minutes with plenty of fresh, cool water. Hold lids open while flushing. If irritation persists after flushing or if irritation is for some reason severe, call a physician promptly.	Remove affected person to fresh air. If prolonged shortness of breath or dizziness persists, call a physician promptly.

Note to physician: Treatment of overexposure should be directed at the control of symptoms and the patient's clinical condition..

SECTION 5 - FIREFIGHTING MEASURES

EXTINGUISHING MEDIA	Dry chemical, carbon dioxide, water spray.	HAZARD	HMIS	NFPA	HMIS/NFPA Rating KEY:
UNUSUAL FIRE HAZARDS	NONE	Health	1	1	0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
EXPOSURE HAZARDS	NONE	Flammability	0	0	
COMBUSTION PRODUCTS	Oxides of carbon and smoke	Reactivity	0	0	
PROTECTION FOR FIREFIGHTERS	Wear self-contained breathing apparatus to avoid inhaling decomposition byproducts.	PPE	D		

SECTION 6 – ACCIDENTAL RELEASE MEASURES (Also See Section 13)

PERSONAL PRECAUTIONS	ENVIRONMENTAL PRECAUTIONS	METHODS FOR CLEANUP
Avoid hot surfaces and open flames. Common sense protection like safety glasses are always a good idea.	Prevent large spills from entering storm sewers or drains and contact with soil. Do not dump waste material on the ground, into storm sewers or into public waterways.	Methods and Materials for Containment and Cleaning Up: Treat as a non-hazardous spill. If spill is large, contain material and prevent it from reaching storm sewers or public waterways. Absorb with clay or diatomaceous earth. Dispose in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	CONDITIONS FOR SAFE STORAGE
Use in well-ventilated area away from all ignition sources. Read and understand the SDS before using this product. Avoid contact with eyes. Avoid prolonged repeated skin contact and breathing mists/vapors. Avoid ALL hand to mouth activities (drink/eat/etc.) when using this product. Do not breathe mist/vapors. Wash thoroughly after handling.	Keep containers tightly closed when not in use. Avoid contamination with dirt or other foreign matter. Store in cool and dry area away from open flames and other sources of ignition. Keep out of direct sunlight. Make sure containers are labeled properly. Should containers be subjected to excessive heat, cool them with water spray. Product should be used at normal ambient temperatures. Do not empty waste into sanitary drains.

SECTION 8 – PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

RESPIRATORY PROTECTION	SKIN PROTECTION	EYE PROTECTION	ENGINEERING CONTROLS
Not normally required in well-ventilated areas. A NIOSH-approved dust/mist respirator may be used if necessary.	Not normally required. Chemical resistant gloves and other protective clothing as needed to avoid skin contact if needed.	Safety goggles or safety glasses as needed to prevent eye contact. Do not wear contact lenses when using any chemical product.	Good general ventilation should be sufficient to control possible vapors.

EXPOSURE LIMITS:	HAZARDOUS COMPONENT (S)	CAS NUMBER	VALUE	CONTROL PARAMETERS
	Tripropylene Glycol Ether	25498-49-1	Dermal LD50:15,400 mg/kg Rabbit	ACGIH Threshold Limit Values (TLV)

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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear to Green	BOILING POINT:	Over 212°F	VAPOR PRESSURE:	None Established
PHYSICAL STATE:	Liquid	FLAMMABILITY:	Non Flammable	VAPOR DENSITY:	None Established
ODOR (THRESHOLD):	No noticeable odor (N/A)	FLASH POINT:	Not Available	PARTITION COEFFICIENT:	None Established
pH:	6.5-7.5 (Neutral)	AUTO-IGNITION:	None Established	SOLUBILITY:	100% Soluble in Water
EVAPORATION RATE:	None Established	UPPER/LOWER LIMITS:	None Established	VISCOSITY:	Similar to Tap Water
MELTING POINT:	None Established	DECOMPOSITION TEMP:	None Established	RELATIVE DENSITY:	1.005-1.010

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable - No decomposition, if used according to specifications.	**CONDITIONS TO AVOID:** Excessive heat, ignition sources and build up of static electricity.
MATERIALS TO AVOID (INCOMPATIBLE MATERIALS): Avoid contact with strong acids, caustics, oxidizers, and reducers.	**HAZARDOUS POLYMERIZATION:** Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Burning can produce carbon monoxide, carbon dioxide and oxides of sulfur in trace amounts.	**POSSIBILITY OF HAZARDOUS REACTIONS:** None are known.

SECTION 11 – TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF ENTRY:		ROUTE OF ENTRY AND EFFECTS OF OVEREXPOSURE:	
SKIN:	Yes	SKIN:	Acute exposure may cause slight irritation. Chronic exposure may cause dermatitis due to skin oil loss.
EYES:	Yes	EYES:	May cause irritation, tearing and swelling.
INHALATION:	Yes	INHALATION:	Vapor or mist may cause irritation. Prolonged inhalation may cause coughing, dizziness, and shortness of breath.
INGESTION:	Possible, but not likely	INGESTION:	May cause nausea and weakness.

Toxicity known to humans: None Established

Chronic (long-term) health effects: None known to humans

REPRODUCTIVE EFFECTS	TERATOGENICITY	MUTAGENICITY	EMBRYOTOXICITY	SENSITIZATION TO PRODUCT	SYNERGISTIC PROPERTIES
None Established	None Established	None Established	None Established	None Established	None Established

CARCINOGENIC PROPERTIES: None of the components in the product are listed in the National Toxicology Program (NTP) Report or found to be a potential carcinogen by the International Agency for Research on Cancer (IARC), or by OSHA.

SECTION 12 – ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY:	Not classified as "readily biodegradable" (OECD-301 A-F). However, this product is expected to be inherently biodegradable.
BIO-ACCUMULATIVE POTENTIAL:	There is no evidence to suggest bioaccumulation will occur.
AQUATIC TOXICITY:	There is no evidence to suggest this will occur.
MOBILITY:	Accidental spillage may lead to penetration in soil and groundwater. However, not expected to cause adverse ecological effects.

SECTION 13 – WASTE DISPOSAL CONSIDERATIONS

Dispose in accordance with current applicable laws and regulations, and product characteristics at time of disposal. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

SECTION 14 – TRANSPORTATION INFORMATION

AGENCY	PROPER SHIPPING NAME	UN NUMBER	LABEL REQUIRED	HAZARD CLASS	SECONDARY RISK	PACKAGING GROUP	MARINE POLLUTANT
DOT (land):	Shipping Name: Non-Regulated	NA	NA	NA	NA	NA	NO
IATA/ICAO (air):	Shipping Name: Non-Regulated	NA	NA	NA	NA	NA	NO
IMDG (water):	Shipping Name: Non-Regulated	NA	NA	NA	NA	NA	NO
TDG Information:	Shipping Name: Non-Regulated	NA	NA	NA	NA	NA	NO

SECTION 15 – REGULATORY INFORMATION

GHS Precautionary Label:	NONE
CHIP Hazard Symbols:	NONE
GHS Safety Phrases:	**S2** - Keep out of the reach of children, **S3** - Keep in a cool place **S62** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible, **S20/21** - When using do not eat, drink or smoke
GHS Risk Phrases:	**R36** - Irritating to eyes **R66** - Repeated exposure may cause skin dryness or cracking, **R67** - Vapors may cause drowsiness and dizziness
SARA Section 311/312:	No component of this product is listed as an extremely hazardous substance.
SARA Section 313:	Not listed
California Proposition 65:	The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. There are no ingredients in this product which are subject to the reporting requirements of California Proposition 65.
TSCA:	All components of this product are listed on the Toxic Substance Control Act (TSCA) Section 8(b) Chemical Inventory and the Canadian Environmental Protection Act (CEPA) provisional domestic substances list (DSL). This product does not contain toxic components on the TSCA Section 12(b) export notification list.

SECTION 16 – OTHER INFORMATION

DISCLAIMER: The Safety Data Sheet relates only to the specific information contained and does not relate to other materials or processes. The data contained is believed to be correct, current, and presented in good faith. However, because the conditions of use are outside our control, it should not be taken as a warranty or representation, expressed or implied, for which Shield Solutions, LLC, or agents acting on Shield Solutions, LLC' behalf, assumes legal responsibility. This information is provided solely for consideration, investigation, and verification. Shield Solutions, LLC disclaims any liability against infringement of any patent through customer use of any Shield Solutions, LLC product or process in combination with other materials or processes. Other precautions: For industrial and commercial use only. Keep out of reach of children. Avoid eye and excessive skin contact. Avoid breathing vapors. Do not swallow. Wash thoroughly after handling.

NOTE: Specifications and government regulations may change without notice. This document should not be regarded as legal advice or regulation. For questions relating to specific aspects of the requirements and regulations, please ask the proper regulatory agency. Always check with your local government or transporter.

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