



Safety Data Sheet

Unna-Z Unna Boot Bandages with Zinc

Section 1. Identification

Product Identifier	Unna-Z Unna Boot Bandages with Zinc		
Synonyms	NONUNNA13; NONUNNA14; MSD_SDS0021		
Manufacturer Stock Numbers	NONUNNA13; NONUNNA14		
Recommended use	N/A		
Uses advised against	N/A		
Manufacturer Contact Address	Medline Industries, Inc. 3 Lakes Drive Northfield, IL, 60093 USA		
	Phone	Emergency Phone	Fax
	(800) 633-5463	(800) 424-9300 CHEMTREC	(847) 643-4436
	Website		
	www.Medline.com		

Section 2. Hazards Identification

Routes of Entry:	Absorption, Eye contact, Ingestion, Inhalation, Skin contact
Carcinogenic Status:	Not considered carcinogenic by NTP, IARC, and OSHA.
Target Organs:	Skin, Eye, Respiratory System
Health Effects - Eyes:	The ointment will cause conjunctival irritation and possibly corneal damage.
Health Effects - Skin:	No effect on skin, for prolong and short term use. The ointment is for external use only. May rarely cause allergic reaction in sensitive individuals.
Health Effects - Ingestion:	Swallowing may have the following effects: Irritation of mouth, throat and digestive tract A large dose may have the following effects: Irritation of the stomach and vomiting. May produce mild laxative effect.

Health Effects - Inhalation: Exposure to vapor may have the following effects:
Irritation of nose, throat and respiratory tract

Exposure to vapor at high concentrations may have the following effects:
Headache

Section 3. Ingredients

CAS	Ingredient Name	Weight %
56-81-5	Glycerin USP	10% - 50%
1314-13-2	Zinc oxide	1% - 10%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Eye Contact: Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin Contact: Immediately flood the skin with large quantities of water, preferably under a shower. Remove contaminated clothing and continue washing. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention if blistering occurs or redness persists.

Ingestion: Have victim drink 1-3 glasses of water to dilute stomach contents; Induce vomiting.

Inhalation: Remove from exposure to fresh air. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media Use foam, dry chemical, sand or carbon dioxide. Keep containers and surroundings cool with water spray.

Unsuitable Extinguishing Media Do not use water jet directly.

Unusual Fire and Explosion Hazards: Cool endangered containers externally with water.

Hazard from combustion products: Nitrogen oxides, Carbon Monoxide, Carbon Dioxide, Soot Organic substances.

Protective Equipment for Fire-Fighting: Do not inhale combustion gases. Wear full protective clothing and self-contained breathing apparatus.

Section 6. Accidental Release Measures

Accidental Release Measures: Clean area with (hot) water and detergent. Note that spillage will become slippery. Avoid contact with hot products. Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Wear appropriate protective clothing.

Environment Precaution: Do not allow spilled product to enter drains, surface water or ground water. Do not allow product to enter soil/ subsurface. Large spillages must be notified to appropriate authority.

Section 7. Handling and Storage

Handling and Storage: Special precautions are not necessary if use correctly. Keep in tinted close light protecting containers. Use in well ventilated area. Use local exhaust ventilation. Avoid inhaling vapor. Avoid contact with eyes and clothing. Store away from sources of heat or ignition. Storage area should be cool, dry, well ventilated, away from incompatible materials (strong oxidizing agents) and heat.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Glycerin USP	10 mg/m ³ (mist)	Total dust: 15 mg/m ³ TWA: 10 mg/m ³ Respirable fraction: 5 mg/m ³ TWA: 5mg/m ³	N/A
	Zinc oxide	Respirable Fraction: TWA: 2 mg/m ³ STEL: 10 mg/m ³	Total Dust: 15 mg/m ³ TWA: 10 mg/m ³ Respirable Fraction: 5 mg/m ³ TWA: 5 mg/m ³	N/A
Personal Protective Equipment	N/A			
Occupational Exposure Standards:	There are no specific occupational exposure limits known for product or its ingredients.			
Engineering Control Measures:	Good general room ventilation is expected to be adequate to control airborne levels.			
Respiratory Protection:	Not required under normal conditions and appropriate ventilation.			
Hand Protection:	Wear oil resistant gloves made from PVC or nitril.			
Eye Protection:	Chemical goggles or safety glasses with side shields may be worn.			
Body Protection:	Wear oil resistant protecting clothing, overall or apron.			
Industrial Hygiene:	Do not eat, drink, smoke or sniff during work.			

Section 9. Physical and Chemical Properties

Physical State	Ointment impregnated gauze
Color	White
Odor	Odorless
Odor Threshold	N.D.
Solubility	N.A.
Partition coefficient Water/n-octanol	N.D.

VOC%	N/A
Viscosity	N.A.
Specific Gravity	N/A
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	N.D.
FP Method	N.D.
pH	6.5 - 7.0
Melting Point	N.A.
Boiling Point	N.A.
Boiling Range	N.D.
LEL	N/A
UEL	N/A
Evaporation Rate	N.D.
Flammability	N.D.
Decomposition Temperature	N.D.
Auto-ignition Temperature	N.D.
Vapor Pressure	<1.3
Vapor Density	N.D.

Section 10. Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Heat, High temperatures, Static discharge, Exposure to direct sunlight & Mechanical shock

Materials to Avoid: Strong oxidizing agents.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition or Byproducts: Oxides of carbon.

Section 11. Toxicological Information

Acute Toxicity: Skin: Rarely cause allergic reaction in sensitive individuals.
Eyes: Rarely cause allergic reaction in sensitive individuals.
Inhalation: No hazards under normal conditions of use.

Chronic Toxicity/Carcinogenicity: This product is not expected to cause long term adverse health effects.
This product is non carcinogenic.
When swallowed: there is no damage to health.

Genotoxicity: This product is not expected to cause any mutagenic effects.

Reproductive/Developmental Toxicity: This product is not expected to cause reproductive or developmental health effects.

Section 12. Ecological Information

Mobility:	Product is insoluble in water. It can be removed from water mechanically in purification plant.
Persistence and Degradability:	According to the test criteria of OECD the product is not readily biodegradable but inherently biodegradable.
Bio-accumulation:	The product has no bio-accumulation.
Ecotoxicity:	Fish toxicity: Product is not fish toxic.

Section 13. Disposal

Disposal Considerations:	Dispose of in accordance with all applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near to the container. Do not incinerate closed containers. Empty containers may contain hazardous residues. Dispose of containers with care.
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Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	Not Regulated
DOT Classification	Not Regulated
Packing Group	Not Regulated

Section 15. Regulatory Information

SARA 311/312:	Refer to Section 2 of the SDS.
SARA 302:	N.A.
SARA 304:	N.A.
SARA 313:	Zinc Compounds
TSCA:	All components are listed or exempt.
CERCLA Hazardous Substance List:	N.A.
Clean Air Act (CAA) Section 112, 112 (r):	N.A.
New Jersey Right to Know Components:	Glycerin Zinc Oxide
Pennsylvania Right to Know Components:	1,2,3-Propanetriol Zinc Oxide
Rhode Island Right to Know Components:	Glycerol Zinc Oxide

Section 16. Other Information

Revision Date

5/10/2019

Legend

N.A. - Not Applicable
N.E. - Not Established
N.D. - Not Determined

National Fire Protection
Association (U.S.A): Fire
Hazard

1

National Fire Protection
Association (U.S.A): Health
Hazard

0

National Fire Protection
Association (U.S.A):
Reactivity

0

National Fire Protection
Association (U.S.A):
Special Hazard

None

HMIS (U.S.A.): Flammability

1

HMIS (U.S.A.): Health
Hazard

0

HMIS (U.S.A.): Reactivity

0

HMIS (U.S.A.): Personal
Protection

See section 8

Additional Information

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