

MATERIAL SAFETY DATA SHEET

PRODUCT: Tuff Grip -

HMIS HAZARD: 1 0 0 X HANDLING

1 0 0 X SPRAYING

SECTION I – Manufacturer Information

Manufacturer: SlipDoctors
Emergency Phone #: NA
Date Prepared: March 23, 2010

Address: 3440 Sojourn Drive Suite 290 Carrollton, TX 75006
Information Phone #: (888) 436-5404

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS INGREDIENT	CAS #	OSHA PEL	ACGIH PEL	OTHER	%
Dipropylene glycol n butyl ether	29911-28-2	*NE	*NE	SEE VI	1.587
Propylene glycol n butyl ether	5131-66-8	*NE	*NE	SEE VI	1.587
Poly(oxy-1,2-ethanediyl) alpha[3-{3-(2H-benzotriazol-2-yl)-5-(1,1dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-omega-hydroxy-	104810.48.2	*NE	*NE	SEE VII	0.312
Bis(1,2,2,6,6-pentamethyl-4-piperidiny)sebacate	41556-26-7	*NE	*NE	SEE VI	0.254
Poly(oxy-1,2-ethanediyl) alpha[3-{3-(2H-benzotriazol-2-yl)-5-(1,1dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-omega-[3,(3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl)-1-oxopropoxy]-	10410-47-1	*NE	*NE	SEE VI	0.249
Methyl (1,2,2,6,6-pentamethyl-4-piperidiny)sebacate	82919-37-7	*NE	*NE	SEE VI	0.063
1,2 Benzisothiazol-3(2H)one	2634-33-5	*NE	*NE		0.045
ammonia	1336-21-6	25 ppm	25 ppm		0.043

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: >100° C **Specific Gravity** (H2O=1): 1.060 Vapor Pressure (mm Hg) NE
Melting Point: NE **Vapor Density** (Air = 1) NE **Evaporation Rate:** (Butyl Acetate=1) <0.1
pH: 8.0 -9.0 **VOC:** (78g/L.) = 0.65# / Gallon **Solubility in water:** DILUTABLE
Appearance and Odor: Milky yellow mobile gritty liquid with mild ether odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NE (WATER BASED PRODUCT) **Flammable Limits:** NE LEL-NE UEL-NE
Extinguishing Media: CO2 OR DRY CHEMICAL. WATER AGGRAVATES SPILL CLEANUP.
Special Fire Fighting Procedures: WEAR NIOSH/MSHA APPROVED PRESSURE DEMAND SELF CONTAINED BREATHING APPARATUS.
Unusual Fire & Explosion Hazards: MATERIAL CAN SPATTER ABOVE 100°C. DRIED FILM MAY BURN.

SECTION V - REACTIVITY DATA

Stability: XX Stable ___ Unstable Conditions to Avoid: TEMPERATURES > 100C.
Incompatibility (materials to avoid): MATERIALS THAT REACT WITH WATER; OXIDIZERS
Hazardous Decomposition Byproducts: OXIDES OF CARBON AND NITROGEN AT FIRE CONDITIONS.
Hazardous Polymerization: ___ May occur XX Will not occur **Conditions to Avoid:** NONE KNOWN

SECTION VI - HEALTH HAZARD DATA

Routes of entry: Inhalation? YES Skin? YES Ingestion? YES

SECTION VI – HEALTH HAZARD DATA (continued)

Health hazards (Acute and Chronic): **INHALATION**-(ACUTE) NAUSEA, HEADACHE, RESPIRATORY IRRITATION; (CHRONIC) PROLONGED OCCUPATIONAL EXPOSURE TO SOLVENTS HAVE BEEN ASSOCIATED WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE; ALSO SEE MEDICAL CONDITIONS BELOW; **SKIN**-(ACUTE) MILD DELAYED IRRITATION; (CHRONIC) DERMATITIS, ALSO SEE MEDICAL CONDITIONS BELOW. **EYES** (ACUTE); IRRITATION. CHRONIC; SAME.

Carcinogenicity: NTP? NO IARC Monographs? NO OSHA Regulated? NO

Signs and Symptoms of Exposure: INHALATION; TRANSIENT NARCOSIS OR HEADACHE WITH PROLONGED EXPOSURE AT ELEVATED TEMPERATURES IN CONFINED AREAS. SKIN; MILD DELAYED SKIN IRRITATION. EYES; TEARING, REDNESS, IRRITATION.

Medical Conditions Generally Aggravated by Exposure: MAY ADVERSELY AFFECT RENAL, HEPATIC, NEUROLOGICAL PROCESSES, SPLEEN AND THYROID.

Emergency and First Aid Procedures: INHALATION; REMOVE TO FRESH AIR, SEEK MEDICAL ATTENTION. SKIN; WASH WITH WARM SOAPY WATER AS SOON AS POSSIBLE. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. EYES; FLUSH WITH CLEAN WATER FOR 15 MINUTES AND SEEK MEDICAL ATTENTION.

SECTION VII - PROCEDURES FOR SAFE HANDLING AND USE:

Steps to be taken in case material is released or spilled: KEEP ALL SPECTATORS AWAY! WEAR NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS IF IN POORLY VENTILATED AREA. DIKE AND CONTAIN SPILL WITH INERT MATERIAL. RECOVER USABLE MATERIAL TO CONTAINER FOR USE. SEPARATE UNUSABLE MATERIALS. KEEP SPILLS FROM SEWERS OR WATER. ALSO SEE SECTION VIII CONTROL MEASURES.

Waste disposal method: SPREAD MATERIAL EVENLY ON PLASTIC FILM AND ALLOW TO DRY THOROUGHLY. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Precautions to be taken in handling and storing: USE AND STORE WITH ADEQUATE VENTILATION. AVOID EYE CONTACT. KEEP CONTAINER CLOSED. PROTECT FROM FREEZING. AVOID TEMPERATURES IN EXCESS OF 45 DEGREES C.

Other precautions: AVOID BREATHING VAPORS, ESPECIALLY IN THE HEAD SPACE ABOVE LIQUID. DELIBERATE INGESTION OR CONCENTRATING AND INHALING VAPORS MAY BE HARMFUL OR FATAL. SEE LABEL PRECAUTIONS.

SECTION VIII - CONTROL MEASURES

Respiratory protection: NIOSH/MSHA APPROVED ORGANIC VAPOR CARTRIDGE.

Ventilation: Local Exhaust: RECOMMENDED

Mechanical (General): RECOMMENDED

Special: NA

Other: NA

Protective Gloves: IMPERVIOUS

Eye Protection: CHEMICAL SPLASH GOGGLES

Other protective clothing or Equipment: AS REQUIRED TO PREVENT SKIN CONTACT.

Work/Hygienic Practices: GOOD INDUSTRIAL HYGIENE.

SECTION IX DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

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This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assumes the risk of his use thereof.

LEGEND: NA = Not Applicable

NE = Not Evaluated

NR = Not Required

OSHA/ACGIH TERMS:

PEL = Permissible Exposure Limit

STEL = Short Term Exposure Limit

TWA = Time Weighted Average

TLV = Threshold Limit Value

***NE** = Not Established

HMIS Hazard Ranking 0=least 1 = Slight

2 = Moderate

3 = Serious

4=Severe

For further information on Personal Protection refer to HMIS Personal Protection Index.