

## SHIELD-TEK Fleet High Performance, 4050 & 4550

SDS Number: N-400

Revision Date: 8/25/16

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### 1 PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer**

NIKE-TECH, INC.  
9901 FM 1807  
ALVARADO, TX 76009

**Emergency:** CHEMTREC (800)424-9300 / 725168  
**Contact:** Jim Hughes  
**Phone:** 817-953-8777  
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**Product Name:** SHIELD-TEK Fleet High Performance, 4050 & 4550  
**Revision Date:** 8/25/16  
**SDS Number:** N-400  
**Product Code:** 32-10450 FHPG / GLOSS & 32-10455 FHPM / MATTE  
**Product Use:** Liquid Laminate for print protection

### 2 HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

- Health, Reproductive toxicity, 1 B
- Health, Respiratory or skin sensitization, 1 Skin
- Health, Skin corrosion/irritation, 2
- Health, Serious Eye Damage/Eye Irritation, 2 A
- Health, Serious Eye Damage/Eye Irritation, 2 B
- Health, Specific target organ toxicity - Single exposure, 3
- Physical, Flammable Liquids, 4
- Health, Acute toxicity, 4 Dermal
- Health, Acute toxicity, 4 Inhalation
- Health, Acute toxicity, 4 Oral
- Health, Acute toxicity, 5 Dermal
- Health, Acute toxicity, 5 Oral

**GHS Label elements, including precautionary statements**

**GHS Signal Word:** **DANGER**

**GHS Hazard Pictograms:**



**GHS Hazard Statements:**

H360 - May damage fertility or the unborn child

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H317 - May cause an allergic skin reaction  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H320 - Causes eye irritation  
H336 - May cause drowsiness or dizziness  
H227 - Combustible liquid  
H312 - Harmful in contact with skin  
H332 - Harmful if inhaled  
H302 - Harmful if swallowed  
H313 - May be harmful in contact with skin  
H303 - May be harmful if swallowed

### GHS Precautionary Statements:

P102 - Keep out of reach of children.  
P103 - Read label before use.  
P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking  
P233 - Keep container tightly closed.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P262 - Do not get in eyes, on skin, or on clothing.  
P264 - Wash \_ thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P302+352 - IF ON SKIN: Wash with soap and water.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P308+313 - IF exposed or concerned: Get medical advice/attention.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P321 - Specific treatment (see \_ on this label).  
P322 - Specific measures (see \_ on this label).  
P330 - Rinse mouth.  
P332+313 - If skin irritation occurs: Get medical advice/attention.  
P337+313 - Get medical advice/attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P370+378 - In case of fire: Use \_ for extinction.  
P381 - Eliminate all ignition sources if safe to do so.  
P403+233 - Store in a well ventilated place. Keep container tightly closed.  
P403+235 - Store in a well ventilated place. Keep cool.  
P405 - Store locked up.  
P412 - Do not expose to temperatures exceeding 50 °C/122 °F  
P501 - Dispose of contents/container to \_  
CGA-MP01 - IF ACCIDENTLY INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.

### Hazards not otherwise classified (HNOC) or not covered by GHS

**Route of Entry:** Absorption, Inhalation, and Ingestion

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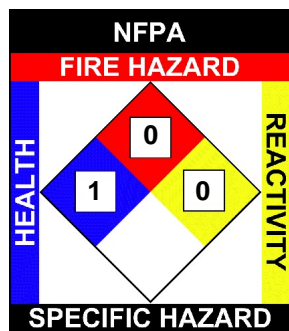
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- Target Organs:** HEALTH HAZARDS (ACUTE AND CHRONIC):  
 ACUTE: Shortness of breath, burning sensation or respiratory passages, nausea, headache.  
 CHRONIC: Narcosis, kidney and liver dysfunction with possible central nervous system effects.
- Inhalation:** INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:  
 Dizziness, headache, nausea, shortness of breath, solvent taste in mouth, narcosis, euphoria, or unconsciousness.
- Skin Contact:** SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:  
 Prolonged or repeated unprotected skin contact may cause defatting, drying of the skin, or dermatitis.
- Eye Contact:** EYE CONTACT HEALTH RISK AND SYMPTOMS OF EXPOSURE:  
 Burning sensation with reddening of the eyes. Irritation, rash around the eyes or burning sensation of the eyes.

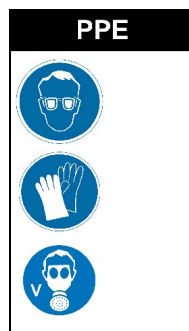
**NFPA:** Health = 1, Fire = 0, Reactivity = 0, Specific Hazard = n/a

**HMIS III:** Health = 1(Chronic), Fire = 0, Physical Hazard = 0

**HMIS PPE:** G - Safety Glasses, Gloves, Vapor Respirator



HMIS	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	G



### 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Ingredients:**

COMPOSITION/INFORMATION ON INGREDIENTS:

Cas#	%	Chemical Name
34590-94-8	<5%	Dipropylene glycol methyl ether
29911-28-2	<4%	2-Propanol, 1-(2-butoxy-1-methylethoxy)-

### 4 FIRST AID MEASURES

- Inhalation:** Ensure supply of fresh air.  
 In the event of symptoms seek medical advice.
- Skin Contact:** In case of contact with skin wash off with soap and water.  
 In the event of symptoms seek medical advice.
- Eye Contact:** In case of contact with eyes rinse thoroughly with water.  
 In the event of symptoms seek medical advice.
- Ingestion:** Thoroughly clean the mouth with water.  
 In the event of symptoms seek medical advice.

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### 5 FIRE FIGHTING MEASURES

**Flammability:** Not Considered Flammable. Contains small amount of co-solvent. Take precautions when in confined space where co-solvent vapors become concentrated

**Flash Point:** >93 Deg .C (>200 Deg. F)

**Flash Point Method:** ASTM 93-73

**LEL:** 1.3

**UEL:** 9.5

Suitable extinguishing media: Foam, carbon dioxide, dry powder, water spray. Firefighters should wear self-contained breathing apparatus. Pressure may build up in closed container that are exposed to heat and fire. Solvent vapors are heavier than Air and may travel a considerable distance along the ground level to a ignition source and flash black.

### 6 ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures;  
Use personal protective equipment.
- 6.2 Environmental precautions:  
Do Not Allow to enter drains or waterways  
Do not discharge into the soil/ground.
- 6.3 Methods and material for containment and cleaning up  
Take up with absorbent material (eg. sand, universal binder)  
Dispose of absorbed material in accordance with the regulations, State and Federal

### 7 HANDLING AND STORAGE

**Handling Precautions:** 7.1 Safe Handling

Advice on safe handling:  
No special measure necessary if stored and handled as prescribed  
Wear respiratory protection when spraying.

Hygiene measures:  
Do not eat, drink or smoke when working.  
Wash hands before breaks and after work.  
Remove soiled or soaked clothing immediately.

General protective measures:  
Avoid contact with eyes and skin  
Do not inhale gases/vapors/aerosols.

**Storage Requirements:** 7.2 Conditions for safe storage, including any incompatibilities

Prevention of fire and explosion:  
Information - No special measures required.

Storage:  
Information - Use plastic containers  
Requirements - Keep container tightly closed

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Do not store below <5 C (41 F)  
PROTECT FROM FREEZING  
Do not keep at temperature above 35 C (95 F)

For Industrial Use Only !

KEEP OUT OF THE REACH OF CHILDREN

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** 8.1 Control parameters

Use only in well-ventilated areas. Apply technical measure to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

**Personal Protective Equipment:**

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

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).

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.

2-Propanol, 1-(2-butoxy-1-methylethoxy)- (29911-28-2) [<4%]

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

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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: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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.

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/m<sup>3</sup> Limits for Air Contaminants  
Skin designation The value in mg/m<sup>3</sup> is approximate.

TWA 100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -  
600 mg/m<sup>3</sup> 1910.1000  
Skin notation

STEL 150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -  
900 mg/m<sup>3</sup> 1910.1000  
Skin notation

TWA 100 ppm USA. NIOSH Recommended Exposure Limits  
600 mg/m<sup>3</sup>  
Potential for dermal absorption

ST 150 ppm USA. NIOSH Recommended Exposure Limits  
900 mg/m<sup>3</sup>  
Potential for dermal absorption

2-Propanol, 1-(2-butoxy-1-methylethoxy)- (29911-28-2) [ $<4\%$ ] : no data available

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### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Milky Liquid, Opaque	<b>Odor:</b>	Amine, organic odor
<b>Physical State:</b>	Liquid	<b>Molecular Formula:</b>	N/A
<b>Odor Threshold:</b>	Not measured	<b>Solubility:</b>	Negligible
<b>Spec Grav./Density:</b>	1.01	<b>Percent Volatile:</b>	65% (Gloss) 60% (Matte)
<b>Viscosity:</b>	19 CPS	<b>Flash Point:</b>	>200 Deg F
<b>Boiling Point:</b>	180 - 396 Deg F	<b>VOC:</b>	2.00 lbs/gal 239,65 g/l (Gloss) †
<b>pH:</b>	7 - 9 (25 C)		

### 10 STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Conditions to Avoid:</b>	Keep away from excessive heat or open flame. Store below maximum storage temperature.
<b>Materials to Avoid:</b>	Strong oxidizing agents
<b>Hazardous Decomposition:</b>	BY FIRE: Normal products of incomplete combustion.
<b>Hazardous Polymerization:</b>	hazardous Ploymerization will not occur.

### 11 TOXICOLOGICAL INFORMATION

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

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:

IARC: 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: 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: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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

Reproductive toxicity: no data available

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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

2-Propanol, 1-(2-butoxy-1-methylethoxy)- (29911-28-2) [<4%]

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 4,000 mg/kg

Inhalation LC50 no data available

Dermal LD50 LD50 Dermal - rat - > 2,000 mg/kg

Other information on acute toxicity

Skin corrosion/irritation: Skin - rabbit -

Serious eye damage/eye irritation: Eyes - rabbit -

Respiratory or skin sensitization: Germ cell mutagenicity:

no data available

Carcinogenicity:

IARC: 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: 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: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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



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Potential health effects: Inhalation Toxic 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: UA8200000

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### ECOLOGICAL INFORMATION

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

2-Propanol, 1-(2-butoxy-1-methylethoxy)- (29911-28-2) [<4%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - other fish - 841 mg/l - 96 h.

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 1,000 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

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### 13 DISPOSAL CONSIDERATIONS

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

Waste treatment methods

Product: This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

2-Propanol, 1-(2-butoxy-1-methylethoxy)- (29911-28-2) [<4%]

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

### 14 TRANSPORT INFORMATION

Land Transport: USDOT: Non Regulated

Sea Transport: IMDG: Non Regulated

Air Transport: IATA/ICAO: Non Regulated

CHEMTREC (800) 424-9300 CCN-725168

PROTECT FROM FREEZING

### 15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

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Dipropylene glycol methyl ether (34590-94-8) [<5%] MASS, OSHAWAC, PA, TSCA, TXAIR

2-Propanol, 1-(2-butoxy-1-methylethoxy)- (29911-28-2) [<4%] TSCA

Regulatory CODE Descriptions

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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

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TXAIR = TX Air Contaminants with Health Effects Screening Level

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### OTHER INFORMATION

#### DISCLAIMER:

The user's attention is drawn to the risks brought upon by the misuse of the product. This Safety Data Sheet does not exempt the user from knowing and applying the regulations corresponding to his/her activity. It is his/her own responsibility to take the precautions according to the use of this product.

FOR INDUSTRIAL USE ONLY.

KEEP THIS and all chemicals OUT OF THE REACH OF CHILDREN !

The information and data contained herein is believed to be accurate at the time of preparation and has been obtained from sources believed to be generally reliable. No Warranty or Liability for the accuracy is made and no Liability will be assumed for claims arising from any party's use of or reliance on information or recommendations contained herein.

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