# SAFETY DATA SHEET

# 1. Identification

Product identifier Pre-Game of Arms

Other means of identification

SDS number 585N-02A
Product code GKS0124106
Recommended use Floor Cleaner

Recommended restrictions For Labeled Use Only

Manufacturer/Importer/Supplier/Distributor information

Distributed By Knight Marketing

Address 46-50 54th Avenue

Maspeth, NY 11378

Contact Regulatory Affairs

**Telephone number** (816) 233-1321 (Ext. 8285)

**Fax** (816) 383-8485

email regulatoryaffairs@knightmarketing.net

**Emergency Contact** (800)-424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazardsSerious eye damage/eye irritationCategory 2AEnvironmental hazardsHazardous to the aquatic environment, acuteCategory 3

hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes serious eye irritation. Harmful to aquatic life.

**Precautionary statement** 

Prevention Wash thoroughly after handling. Avoid release to the environment. Wear eye protection/face

protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Storage** Store away from incompatible materials.

**Disposal** Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

**Mixtures** 

Chemical name	Common name and synonyms	CAS number	%
Dipropylene Glycol Methyl Ether		34590-94-8	5 - < 10
Methoxyisopropanol		107-98-2	5 - < 10
Other components below reportable levels			80 - < 90

## 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and

symptoms/effects, acute an delayed

Indication of immediate medical attention and special treatment needed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Charles protective on

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.	
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Components	Туре	Value
Dipropylene Glycol Methyl Ether (CAS 34590-94-8)	PEL	600 mg/m3
		100 ppm
US. ACGIH Threshold Limit Values		
Components	Туре	Value
Dipropylene Glycol Methyl Ether (CAS 34590-94-8)	STEL	150 ppm
	TWA	100 ppm
Methoxyisopropanol (CAS 107-98-2)	STEL	100 ppm
	TWA	50 ppm
US. NIOSH: Pocket Guide to Chemical	Hazards	
Components	Туре	Value
Dipropylene Glycol Methyl Ether (CAS 34590-94-8)	STEL	900 mg/m3
		150 ppm
	TWA	600 mg/m3
		100 ppm
Methoxyisopropanol (CAS 107-98-2)	STEL	540 mg/m3
		150 ppm
	TWA	360 mg/m3
		100 ppm

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

## **Exposure guidelines**

#### US - California OELs: Skin designation

Dipropylene Glycol Methyl Ether (CAS 34590-94-8)

Can be absorbed through the skin.

Methoxyisopropanol (CAS 107-98-2)

Can be absorbed through the skin.

US - Tennessee OELs: Skin designation

Dipropylene Glycol Methyl Ether (CAS 34590-94-8) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

Dipropylene Glycol Methyl Ether (CAS 34590-94-8)

Danger of cutaneous absorption

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation** 

Dipropylene Glycol Methyl Ether (CAS 34590-94-8) Can be absorbed through the skin.

## US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Dipropylene Glycol Methyl Ether (CAS 34590-94-8) Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes. Where splashing of concentrate is a concern, use protective glasses with

side shield

Skin protection

**Hand protection** Use protective gloves when dealing with the concentrate.

Other None normally required. If unable to avoid prolonged or repeated contact with skin, wear

impervious clothing.

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**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn. Not normally needed.

Thermal hazards None known.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

# 9. Physical and chemical properties

Appearance Clear, light blue liquid

Physical state Liquid.

Form Liquid.

Color Light blue

Odor Non-objectional odor.

Odor threshold Not available. pH 5.25 - 8

Melting point/freezing point Not applicable / Not available

Initial boiling point and boiling

range

207 °F (97.22 °C)

Flash point > 200.0 °F (> 93.3 °C) Tag Closed Cup

Evaporation rate < 1 Ethyl ether=1
Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 17.17

Vapor density 1.3235 Air=1 Relative density 1.003 at 77°F

Solubility(ies)

Solubility (water) 100 %

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Density8.35 lb/galExplosive propertiesNot explosive.Oxidizing propertiesNot oxidizing.

Percent volatile > 99 %

VOC 3.97 % 1:4 Dilution 19.83 % Concentrate

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong acids. Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** No adverse effects due to skin contact are expected.

**Eye contact** Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

Information on toxicological effects

Acute toxicity Not known.

Product Species Test Results

Pre-Game of Arms

**Acute** 

Dermal

LD50 Rabbit 56 g/kg

Inhalation

LC50 Rat 554 mg/l, 4 Hours

Oral

LD50 Rat 28 g/kg

Components Species Test Results

Dipropylene Glycol Methyl Ether (CAS 34590-94-8)

**Acute** 

**Dermal** 

LD50 Rabbit 9.5 g/kg

Oral

LD50 Rat 5.35 g/kg

Methoxyisopropanol (CAS 107-98-2)

**Acute** 

**Dermal** 

LD50 Rabbit 13 g/kg

Inhalation

LC50 Rat 54.6 mg/l, 4 Hours

Oral

LD50 Rat 5.71 g/kg

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

Not classified.

repeated exposure

Not an aspiration hazard. **Aspiration hazard** 

Prolonged inhalation may be harmful. **Chronic effects** 

12. Ecological information

Harmful to aquatic life. **Ecotoxicity** 

**Product Test Results Species** 

Pre-Game of Arms

Aquatic

Crustacea EC50 Daphnia 579.2982 mg/l, 48 hours estimated Fish LC50 Fish 762.8829 mg/l, 96 hours estimated

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Methoxyisopropanol -0.49

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow **Disposal instructions** 

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations. Buyer assumes all risk and liability associated with

disposal of this product (original concentration or dilution) in violation of applicable law.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

# 14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

Not established.

Annex II of MARPOL 73/78 and

the IBC Code

# 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910,1200.

One or more components of the mixture are not on the TSCA 8(b) inventory **Toxic Substances Control Act (TSCA)** 

or are designated "inactive".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

Yes

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

**Classified hazard** 

Serious eye damage or eye irritation

categories

SARA 313 (TRI reporting)
Not regulated.

# Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US** state regulations

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Methoxyisopropanol (CAS 107-98-2)

#### **International Inventories**

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

# 16. Other information, including date of preparation or last revision

 Issue date
 05-08-2019

 Revision date
 04-19-2021

Version # 03

HMIS® ratings Health: 2

Flammability: 0 Physical hazard: 0

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particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or

disposal of these products.

Material name: Pre-Game of Arms SDS US

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### **Revision information**

Product and Company Identification: Alternate Trade Names

Hazard(s) identification: Disposal

Composition/information on ingredients: Component information

Exposure controls/personal protection: Thermal hazards

Physical & Chemical Properties: Multiple Properties
Physical and chemical properties: Odor
Stability and reactivity: Conditions to avoid
Regulatory information: California Proposition 65

Regulatory information: Safe Drinking Water Act (SDWA) Regulatory information: Toxic Substances Control Act (TSCA)

GHS: Classification

SDS US