SAFETY DATA SHEET

Acc. To OSHA HCS (29 CFR 1910.1200)

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: 77189

Trade Name: Friction®

Recommended use and restriction of use

Recommended use: Anti-Slip Floor Cleaner Concentrate

Restrictions on use: Use only as directed (use no more than 2 ounces / gallon)

Details of Supplier/Manufacturer of Safety Data Sheet:

NuSafe Floor Solutions, Inc.
44 Cummings Drive, Suite A
Walton, KY 41094
(859) 493-0701 **ChemTel, Inc. Emergency (800) 255-3924**

2. HAZARDS IDENTIFICATION

Classification of substances or mixture

Irritant

Eye Irrit. 1 **H319** Causes serious eye irritation.
Skin Irrit. 2 **H315** Causes skin irritation.
Skin Sens. 1 **H317** May cause an allergic skin reaction.

Additional Information:

There are no other hazards not otherwise classified that have been identified.

Label elements

GHS label elements:

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:

Irritant

Signal word: Warning

Hazard-determining components of labeling:

p-Nonylphenol polyethylene glycol ether, Polymerized natural resin

Hazard statements:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation

Precautionary statements:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313 + 333	IF SKIN irritation occurs: Get medical advice/attention.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P302+352	IF ON SKIN, Wash with plenty of soap and water.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard description:

WHMIS symbols:

Classification system:

NFPA ratings (scale 0-4)

Health = 1
Fire = 0
Reactivity = 0

HMIS ratings (scale 0-4)

Health = 1
Fire = 0
Reactivity = 0

Other Hazards

Results of PBT and vPvB assessment:

PBT: Not Applicable

vPvB: Not Applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterizations: Mixture

Description: Mixture of substances listed below with non-hazardous addition.

Dangerous components:

CAS #	Chemical Name	Range %
	Polymerized natural resin Eye Iffit. 2A, H319; Skin Sens. 1B, H317	1-15 %*
98113-10-1	p-Nonylphenol polyethylene glycol ether Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315	<6 %*
1310-73-2	Sodium Hydroxide Met. Corr. 1, H290; Skin Corr. 1A, H314	<2%*

***Additional information:** For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

4. FIRST AID MEASURES

Description of First-Aid Measures

General information:

Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after exposure may be necessary.

After inhalation: Supply fresh air; consult a doctor in case of complaints.

After skin contact: Immediately rinse with water. If irritation continues, consult a doctor. Seek immediate medical help for blistering and open wounds.

After eye contact: Remove contacts lenses if worn, if possible. Rinse opened eye(s) for several minutes with running water. Then consult a doctor.

After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.

Information for doctor:

Most important symptoms and effects, both acute and delayed:

Allergic reactions, irritant to skin and mucous membrane, strong irritant with the danger of severe eye injury, headache, cramps, nausea and, may cause gastro-intestinal irritation if ingested

Danger issues: Causes serious eye damage

Indication of an immediate medical attention and special treatment needed

Medical supervision for at least 48 hours. Treat skin and mucous membrane with antihistamine and corticoid preparations. Contains Rosin which may product an allergic reaction.

5. FIRE -FIGHTING MEASURES

Extinguishing Media

Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: None.

Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information: No further relevant information available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Environmental precautions: Do not allow product to enter sewers, surface of ground water. Inform respective authorities if product seeps into water or sewage systems.

Methods and materials for containment and clean up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders sawdust). Send for recovery or disposal in suitable receptacles. Dispose contaminated material as waste according to Sec. 13

Reference to other section: Refer to Sec. 7, 8, and 13.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling:

Use in well ventilated areas

Open and handle receptacles with care.

Avoid splashes or sprays in enclosed areas

Avoid contact with eyes and skin.

Wash hands before breaks and at the end of work.

Use personal protective equipment as required

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including and incompatibilities

No further relevant information available

Storage:

Requirements to be met by storerooms and receptacles:

Store only in original receptacle

Do not store in metal containers (aluminum)

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: Store in cool, dry conditions in well-sealed receptacles.

Specific end uses: No further relevant information available**.**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see item 7

Components with limit values that require monitoring at the workplace:

Sodium Hydroxide

PEL (USA)	Long-term value: 2 mg/m(3)
REL (USA)	Ceiling limit value: 2 mg/m(3)
TVL (USA)	Ceiling limit value: 2 mg/m(3)
EL (Canada)	Ceiling limit value: 2 mg/m(3)
EV (Canada)	Ceiling limit value: 2 mg/m(3)
LMPE (Mexico)	Ceiling limit value: 2 mg/m(3)

Control parameters

Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as the basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed
Keep away from foodstuff, beverages and feed
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work
Avoid contact with the eye and skin
Use only in well ventilated areas.

Engineering controls: No further relevant information available

Breathing equipment: Not required under normal condition. Use in well ventilated area. Use suitable respiratory protective device in case of insufficient ventilation. Use respiratory device for spills.

Protection of hands:

Material of gloves: Gloves should be impermeable to caustic substances. (Rubber or neoprene)

Penetration time of glove material: Not known

Eye protection: Safety glasses are recommended

Body protection: Protective work clothing recommended

Limitation and supervision of exposure into the environment: No further relevant information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General information:

Appearance: **Form:** Liquid
Color: Amber

Odor: Odorless or Sassafras

Odor threshold: Not determined

pH value: 9.8-11.1

Melt point/ range: 0 C (32 F)

Boiling point/ range: 100 C (212 F)

Flash point: Not applicable

Flammability (solid, gaseous): Not applicable

Auto-ignition temp: Not determined
Decomposition temperature: Not determined
Auto igniting: Product is not self-igniting
Danger of explosion: Product does not present an explosion hazard
Explosion limits: Lower: Not determined
Upper: Not determined
Vapor pressure at 20 C (68 F): 23 hPa (17 mm Hg)
Density at 20 C (F): 1.04 gm/cm3 (8.673 lbs. /gallon)
Relative density: Not determined
Vapour density: Not determined
Evaporation rate: Not determined
Solubility/miscibility with water: Soluble
Partition coefficient (n-octanol/water): Not determined
Viscosity: Not determined
Solvent content:
VOC (California): <3% (TTN EMC Method 24) VOC 4.5 grams/liter as used after dilution
Other information: No further relevant information available

10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability
Thermal decomposition/conditions to be avoided: No decomposition if used and stored according to specifications
Possibility of hazardous reactions: Exothermic with strong acids. Avoid oxidizing agents.
Conditions to avoid: Excessive heat and contact with oxidizers and acids.
Incompatible materials: No further relevant information available
Hazardous decomposition components: Burning may produce carbon dioxide or carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: Not known
LD/LC 50 values that are relevant for classification:
The following values are calculated on the mixture based on 3.1 of the GHS Document.

Oral	LD-50	Cat 5	>5000 mg/kg
Dermal	LD-50	Cat 5	>5000 mg/kg
Inhalation – gases	LC-50	Cat 5	>20000 ppmV
Inhalation – vapors	LC-50	Cat 5	>20 mg/l

Primary irritant effect
On skin: Irritant to skin and mucous membrane
On eyes: Strong irritant with the danger of severe eye injury
Sensitization: Sensitization possible through skin
Polymerized natural resin may produce an allergic reaction
Subacute to chronic toxicity: No further relevant information available
Additional toxicological information: Irritant, danger through skin absorption. Toxic and/or corrosive effects may be delayed up to 24 hours.
Carcinogenic categories
NTP (National Toxicology Program): None of the ingredients is listed
OSHA-Ca (Occupational Safety and Health Administration): No further relevant information available
Probable routes of exposure: Inhalation, eyes, skin, and ingestion.
Acute effects (acute toxicity, irritation and corrosivity):

Repeated Dose Toxicity: No further relevant information available

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity:

The following values are calculated on the mixture based on 3.1 of the GHS Document.

Aquatic Toxicity LC-50 Cat 3 45 mg/l

Persistence and degradability: No further relevant information available

Behavior in environmental system:

Bioaccumulative potential: No further relevant information available

Mobility in soil: No further relevant information available

Additional ecological information:

May be harmful to fish

General notes: Do not allow undiluted product or large quantities of product to reach ground water, water course or sewage systems. Danger to drinking water and aquatic organisms.

Other adverse effects: No further relevant information available

13. DISPOSAL CONSIDERATIONS

Waste treatments methods:

Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual material should be treated as hazardous.

Uncleaned packaging:

Recommendations: Disposal must be made according to official regulations

Recommended cleansing agent: Water, if necessary, with cleansing agents

14. TRANSPORT INFORMATION

UN-Number

DOT, ADR, IMDG, IATA: Not regulated

UN Proper Shipping Name

DOT, IATA: Not regulated

ADR: Not regulated

IMDG: Not regulated

Transport Hazard Class(s)

DOT, ADR, IMDG, IATA: Not regulated

Packing Group

DOT, ADR, IMDG, IATA: Not regulated

Environmental hazards: None Known

Schedule B: 3402.90.1000

HS Code: 3402

15. REGULATORY INFORMATION

Safety, health and environmental regulation/legislation specific for the substance or mixture (USA)

SARA

Section 355 (extremely hazardous substances): None of ingredients are listed

Section 313 (Specific toxic chemical listings): None of ingredients are listed

TSCA (Toxic Substance Control Act): All of ingredients are listed

Prop 65 (California)

Chemicals known to cause cancer: None of ingredients are listed
Chemicals known to cause reproductive toxicity for females: None of ingredients are listed
Chemicals known to cause reproductive toxicity for males: None of ingredients are listed
Chemicals known to cause developmental toxicity: None of ingredients are listed

Carcinogenic Categories

EPA (Environmental Protection Agency): None of ingredients are listed
IARC (International Agency for Research on Cancer): N/A
TVL (Threshold Limit Value established by ACGIH): N/A
NIOSH-Ca (National Institute for Occupational Safety and Health): None of ingredients are listed
State Right to Know Listings: None of ingredients are listed
Canadian substance listings
Canadian Domestic Substances List (DSL): All ingredients are listed.
Canadian Ingredient Disclosure list (limit 0.1%): None of the ingredients is listed.
Canadian Ingredient Disclosure list (limit 1%): 1310-73-2 Sodium Hydroxide
Other regulations, limitations and prohibitive regulation:
This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and SDS contains all the information required by the Controlled Products Regulations.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific products features and shall not establish a legally valid contractual relationship.
The health hazards given on the Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.
Company warrants that the product or products described herein will conform to its published specifications. The products supplied by the company and information related to them are intended for use by buyers having necessary industrial skill and knowledge. Buyers should undertake sufficient verification and testing to determine the suitability of the Company's materials for their own particular purpose. Since buyer's conditions of use of product are beyond Company's control, Company does not warrant any recommendations and information for the use of such products. Company disclaims all other warranties including the implied warranty of merchantability and fitness for any particular purpose in connection with the use of its products.

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