



Issue Date 17-Feb-2015

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Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier			
Product Name	Slip less		
Other means of identification			
Product Code	1123		
UN/ID No.	2817		
Synonyms	None		
Recommended use of the chemical and restrictions on use			

# Recommended UseFloor Cleaner and Traction Improver.Uses advised againstNo information available

#### Details of the supplier of the safety data sheet

**Manufacturer Address** 

Harvard Chemical Research, Inc., 3595 Zip Industrial Blvd., Atlanta, GA 30354

# Emergency telephone number

Company Phone Number Emergency Telephone 1-404-761-0657 Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

# **Classification**

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

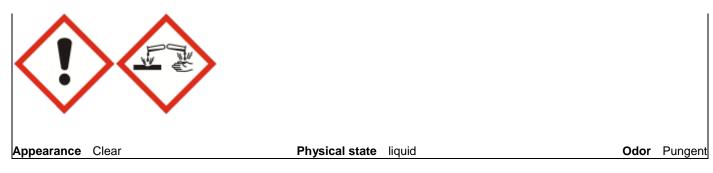
Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

# Label elements

**Emergency Overview** 

# Danger

**Hazard statements** Harmful if swallowed Causes severe skin burns and eye damage



# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Wear protective gloves and eye protection.

# **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician Specific treatment (see .? on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Do not induce vomiting. Give 1 oz. of magnesia with equal amount of water.

# **Precautionary Statements - Storage**

Store locked up

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

Other Information

Unknown Acute Toxicity

% of the mixture consists of ingredient(s) of unknown toxicity

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Weight-%	Trade Secret
Ammonium Bifluoride	1341-49-7	<10	*
Dipropylene Glycol Monomethyl Ether	34590-94-8	<5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### First aid measures

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Remove clothing and soak contaminated are in 0.13% iced aqueous Zephiran chloride solution for 30-60 minutes. DO NOT use Zephiran solution on eyes.

Inhalation	Remove to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available. Get medical attention.	
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Skin irritation. Severe Irritant to Eyes.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

# **5. FIRE-FIGHTING MEASURES**

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

## Specific hazards arising from the chemical

No information available.

Advice on safe handling

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

# Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES				
Personal precautions, protective equipment and emergency procedures				
Personal precautions	Ensure adequate ventilation, especially in confined areas.			
Environmental precautions				
Environmental precautions	See Section 12 for additional ecological information.			
Methods and material for containment and cleaning up				
Methods for containment	Prevent further leakage or spillage if safe to do so.			
Methods for cleaning up	Build a dike, pump into container for PH adjustment. For small spills use earth absorbant.			
7. HANDLING AND STORAGE				
Precautions for safe handling				

# Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

Handle in accordance with good industrial hygiene and safety practice.

#### Incompatible materials

Strong alkaline materials.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ammonium Bifluoride	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F
1341-49-7	-	TWA: 2.5 mg/m <sup>3</sup> dust	_
		(vacated) TWA: 2.5 mg/m <sup>3</sup>	
Dipropylene Glycol Monomethyl	STEL: 150 ppm	TWA: 100 ppm	IDLH: 600 ppm
Ether	TWA: 100 ppm	TWA: 600 mg/m <sup>3</sup>	TWA: 100 ppm
34590-94-8	S*	(vacated) TWA: 100 ppm	TWA: 600 mg/m <sup>3</sup>
		(vacated) TWA: 600 mg/m <sup>3</sup>	STEL: 150 ppm
		(vacated) STEL: 150 ppm	STEL: 900 mg/m <sup>3</sup>
		(vacated) STEL: 900 mg/m <sup>3</sup>	
		(vacated) S*	
		S*	

# Appropriate engineering controls

Engineering Controls	Showers
	Eyewash stations Ventilation systems.

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

- **Eye/face protection** Goggles. Avoid contact with eyes.
- Skin and body protection Rubber gloves. Vinyl apron.
- **Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Handle in accordance with good industrial hygiene and safety practice.

#### Information on basic physical and chemical properties

Physical state Appearance Color	liquid Clear clear	Odor Odor threshold	Pungent No information available
Property	Values	Remarks • Method	
рН	1.00		
Melting point/freezing point	No information available		
Boiling point / boiling range	>212F		
Flash point	No information available		
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit:	No information available		
Lower flammability limit:	No information available		
Vapor pressure	No information available		
Vapor density	No information available		
Specific Gravity	1.03		
Water solubility	Soluble in water		

Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties

#### **Other Information**

Softening point Molecular weight VOC Content (%) Density Bulk density No information available No information available

No information available No information available No information available 8.58 No information available

# **10. STABILITY AND REACTIVITY**

# Reactivity

No data available

# Chemical stability

Stable under recommended storage conditions.

# **Possibility of Hazardous Reactions**

None under normal processing.

# Hazardous polymerization Hazardous polymerization does not occur.

# **Conditions to avoid**

Extremes of temperature and direct sunlight.

# Incompatible materials

Strong alkaline materials.

# Hazardous Decomposition Products

Nitrogen oxides (NOx). Carbon dioxide (CO2).

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

Product Information	No data available
Inhalation	Toxic by inhalation.
Eye contact	Risk of serious damage to eyes.
Skin Contact	Severely irritating to skin.
Ingestion	Very toxic if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium Bifluoride 1341-49-7	= 130 mg/kg (Rat)	-	-
Dipropylene Glycol Monomethyl Ether 34590-94-8	= 5230 mg/kg (Rat)	= 9500 mg/kg (Rabbit)	_

#### Information on toxicological effects

#### Symptoms

No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Germ cell mutagenicity Carcinogenicity	No information available. No information available. No information available.			
Chemical Name	ACGIH	IARC	NTP	OSHA
Ammonium Bifluoride	-	Group 3	-	-
1341-49-7				
Reproductive toxicity	No information available.			
STOT - single exposure	No information available.			
STOT - repeated exposure	No information available.			
Aspiration hazard	No information available.			

#### Numerical measures of toxicity - Product Information

Unknown Acute Toxicity % of the mixture consists of ingredient(s) of unknown toxicity The following values are calculated based on chapter 3.1 of the GHS document .

# **12. ECOLOGICAL INFORMATION**

# Ecotoxicity

9% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Dipropylene Glycol Monomethyl	-	10000: 96 h Pimephales promelas	1919: 48 h Daphnia magna mg/L
Ether		mg/L LC50 static	LC50
34590-94-8		-	

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

Chemical Name	Partition coefficient	
Dipropylene Glycol Monomethyl Ether	-0.064	
34590-94-8		

Other adverse effects

No information available

# **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods	
Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.

# **14. TRANSPORT INFORMATION**

DOT

Regulated

UN/ID No.	2817	
Proper shipping name	Ammonium Hydrogen	Fluoride Solution
Hazard Class	8	
Packing Group	II	

# **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances AICS - Australian Inventory of Chemical Substances

# US Federal Regulations

# <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Ammonium Bifluoride - 1341-49-7	1.0
Dipropylene Glycol Monomethyl Ether - 34590-94-8	1.0
SARA 311/312 Hazard Categories	
Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium Bifluoride 1341-49-7	100 lb	-	-	Х

# **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammonium Bifluoride	100 lb	-	RQ 100 lb final RQ
1341-49-7			RQ 45.4 kg final RQ
US State Regulations			

California Proposition 65

This product does not contain any Proposition 65 chemicals

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ammonium Bifluoride	Х	Х	Х
1341-49-7			
Dipropylene Glycol Monomethyl	Х	Х	Х
Ether			
34590-94-8			

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

# **16. OTHER INFORMATION**

<u>NFPA</u>	Health hazards	0	Flammability	0	Instability 0	Physical and Chemical
HMIS	Health hazards	3	Flammability	1	Physical hazards 3	Properties - Personal protection X
Prepared By	Has	san Ha	shtroudi			
Issue Date	17-Feb-2015					
Revision Date	17-Feb-2015					
Revision Note						
No information available						
Disclaimer						

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet