GreenSlope® Kit

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 07/06/2020 Date of issue: 01/21/2019 Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Green Slope Kit

Product Code:

Intended Use of the Product

Roof-leveling Compound

Name, Address, and Telephone of the Responsible Party

Manufacturer

Viking Products Group, Inc.
3812 East 91st Street
Cleveland, Ohio 44105-2197
T-800-350-2142
F-216-641-0633

Emergency Telephone Number

Emergency Number: 1-800-262-8200 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

STOT, SE 1	H334
Skin corrosion 2	H315
Eye irrit. 2	H319
Skin Sens 1	H317
Acute Tox, Inhal 4	H332

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :

GH507

GH508

Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) :
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H315 – Causes skin irritation
H319 – Causes serious eye irritation
H317 – May cause an allergic skin reaction
H371 – May cause damage to organs through prolonged or repeated exposure
H332 – Cat 4 – Acute tox – inhalation – Harmful if inhaled

Precautionary Statements (GHS-US) :
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 – Use only outdoors or in well-ventilated area
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 - Call a POISON CENTER or doctor/... if you feel unwell.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 – Store locked up
P501 - Dispose of contents/container to ...
P304+P312 - IF INHALED: Call a POISON CENTER/doctor/... if you feel unwell.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash ... thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P309+P311 - IF exposed or if you feel unwell: call a POISON CENTER or doctor/physician.

P272 – Explosion risk

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Other Hazards

Other Hazards Not Contributing to the Classification: Not available.

Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not available

Contents – Polyurethane container

Name	Product identifier	% (w/w)	Classification (GHS-US)	
methylenediphenyl diisocyanate (MDI) Mixed Isomers	(CAS No) 26447-40-5	90-100	STOT, SE 1 Skin corrosion 2 Eye irrit. 2 Skin Sens 1 Acute Tox, Inhal 4 STOT, SE 1	H334 H315 H319 H317 H332 H334

Full text of H-Phrases: See Section 16

All other materials in this product meet the **OSHA definition of an "Article" under 29 CFR 1910.1200(c) and does not require a Safety Data Sheet (SDS) as indicated under 29 CFR 1010.1200(b)(6)(v).**

Articles of Manufacture are defined as: "... a manufactured item which is formed to a specific shape or design during manufacture, which has end use functions depending in whole or in part upon its shape or design during end use and which does not release or otherwise result in exposure to a hazardous chemical under normal conditions of use."

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

First-aid Measures General: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

First-aid Measures After Inhalation: Supply fresh air and be sure to call for a doctor. In case of unconsciousness, place patient stably in side position for transportation. Call a doctor immediately. In case of overexposure, remove to fresh air and seek medical attention.

First-aid Measures After Skin Contact: If skin becomes irritated, seek medical attention. Immediately wash with water and soap and rinse thoroughly.

First-aid Measures After Eye Contact: Rinse opened eye for 20 minutes under running water. Call a doctor immediately.

First-aid Measures After Ingestion: Rinse out mouth with water. Drink 1-2 glasses of water but DO NOT induce vomiting. No not give liquids to a drowsy, convulsing or unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Seek medical treatment.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms/Injuries: Causes eye irritation. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

Symptoms/Injuries After Inhalation: May cause irritation to the respiratory tract.

Symptoms/Injuries After Skin Contact: May cause skin irritation.

Symptoms/Injuries After Eye Contact: Causes eye irritation.

Symptoms/Injuries After Ingestion: None known, not likely route of entry.

Chronic Symptoms: No further relevant information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: CO_2. Sand. Extinguishing powder.

Unsuitable Extinguishing Media: Do not use extinguishing media containing water.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: No information available.

Explosion Hazard: No information available.

Reactivity: No information available.

Advice for Firefighters

Firefighting Instructions: Exercise caution when fighting any chemical fire.

Protection During Firefighting: As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NAOSH (approved or equivalent) and full protective gear. Standard procedure for chemical fires.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use personal protective equipment. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation.

For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and Material for Containment and Cleaning Up

For Containment: Contain with inert absorbent material.

Methods for Cleaning Up: Absorb with liquidbinding material (sand, diatomite, acid binders, universal binders, sawdust). Transfer to a waste container. Keep the material damp and exposed to the air in a secure area (CO2formation!) until completely solidified. The waste can then be disposed of on an approved landfill or a special refuse dump. Ensure adequate ventilation.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Precautions for Safe Handling: Ensure good ventilation/exhaust at the workplace. Keep containers tightly sealed. Prevent formation of aerosols. Exhaust ventilation required during spraying or when material is being used at temperatures above 100 degrees F.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Keep containers tightly closed when not in use. Protect from atmospheric moisture. Keep away from open flames and high temperatures.

Incompatible Materials: Heat sources.

Storage Area: Store locked up. Store in a well-ventilated place. Storage temperature 32°F - 90°F

Specific End Use(s)

Foamable adhesive

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Methylenediphenyl diisocyanate (MDI, 26447-40-5)		
USA ACGIH	ACGIH TLV (mg/m^3)	0.05 mg/m^3
USA NIOSH	NIOSH REL (TWA) (mg/m^3)	0.05 mg/m^3
USA OSHA	OSHA PEL (STV) (mg/m^3)	0.2 mg/m^3

Exposure Controls

Appropriate Engineering Controls: Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapors may be released.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.

Hand Protection: Protective gloves.
Eye Protection: Chemical goggles or safety glasses.
Skin and Body Protection: Wear suitable protective clothing.
Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.
Other Information: When using, do not eat, drink, or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	:	Liquid
Appearance	:	Off White - Light Amber
Odor	:	Faint Aromatic
Flash Point	:	>392˚F (>200˚C)
Relative Vapor Density at 68°F (20°C)	:	> 1 (Air = 1)
Relative Density	:	Not available
Specific Gravity	:	1.09
Solubility	:	Negligible
Volatile Organic Compounds	:	0 g/L

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not available.
Chemical Stability: Product is stable.
Possibility of Hazardous Reactions: Exothermic reaction with amines and alcohols. Reacts with water to liberate CO2 gas which may build pressure in closed containers.
Conditions to Avoid: Open flames and intense heat. Heating in air. Contact with moisture.
Incompatible Materials: Reacts with amines, caustic alkali solutions, alcohols, ammonia, oxidizers, acids, polyols.
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, dense black smoke, and other undetermined compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Information On Toxicological Effects - Product

Information on Toxicological Effects – Ingredient(s)

LD50 and LC50 Data

4,4' – methylenediphenyl diisocyanate (101-68-8)	
LD50 Dermal Rabbit	>2,000 mg/kg
LC50 Inhalation Rat	>2,000 mg/kg

Methylenediphenyl diisocyanate (26447-40-5)	
LD50, Oral Rat	>2,000 mg/kg
LD50, Dermal Rabbit	>2,000 mg/kg

Carcinogenicity Data:

Lung tumors have been observed in laboratory animals exposed to respirable aerosol droplets of MDI/Polymeric MDI (6 mg/m^3) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects reported for MDI. No risk in finished product.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity – Ingredients

The measured ecotoxicity is that of the hydrolyzed product, generally under conditions maximizing production of soluble species. The finished product is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 . 100 mg/L in the most sensitive species tested).

Methylenediphenyl diisocyanate (MDI, 26447-40-5)	
LC50, *Danio rerio* (Zebra Fish), static test, 96 h	> 1,000 mg/L
EC50, *Daphnia magna* (Water Flea), static test, 24 h	> 1,000 mg/L
NOEC, *Desmodesmus subspicatus*, (Green Algae), static test, Growth rate inhibition, 72 h	1,640 mg/L

EC50, activated sludge test (OECD 209), Respiration inhibition, 3 h	> 100 mg/L
EC50, *Eisenia fetida*, (Earthworms), 14 d	> 1,000 mg/kg

4,4'-Methylenediphenyl diisocyanate (MDI, 101-68-8)	
LC50, *Danio rerio* (Zebra Fish), static test, 96 h	> 1,000 mg/L
EC50, *Daphnia magna* (Water Flea), static test, 24 h	> 1,000 mg/L
NOEC, *Desmodesmus subspicatus*, (Green Algae), static test, Growth rate inhibition, 72 h	1,640 mg/L
EC50, activated sludge test (OECD 209), Respiration inhibition, 3 h	> 100 mg/L
EC50, *Eisenia fetida*, (Earthworms), 14 d	> 1,000 mg/kg

Persistence and Degradability

In the aquatic and terrestrial environment, material reacts with water forming predominantly insoluble polyureas which appear to be stable. In the atmospheric environment, material is expected to have a short tropospheric half-life, based on calculations and by analogy with related diisocyanates.

Biodegradation Tests:

Bioaccumulative Potential – Product

Not established

Bioaccumulative Potential – Ingredients

Bioaccumulation: Bioconcentration potential is low (BCF<100 or Log Pow <3). In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.

Mobility in Soil

In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Additional Information: Prevent runoff from entering drains, sewers, or waterways.

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT

Proper Shipping Name : Non-Regulated Material

In Accordance with IMDG

Proper Shipping Name : Not Regulated

In Accordance with IATA

Proper Shipping Name : Not Regulated

In Accordance with TDG

Proper Shipping Name : Not Regulated

Single containers less than 5,000 lbs are not regulated. Single containers with 5,000 lbs or more of methylenediphenyl diisocyanate are regarded as class 9, NA3082, PG III.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Diphenylmethanediisocyanate, isomers and homologues (9016-87-9)
Listed on the United States TSCA (Toxic Substances Control Act) Inventory

4,4'-methylenediphenyl diisocyanate (101-68-8)	
Listed on the United States TSCA (Toxic Substances Control Act) Inventory	
SARA Section 313 – Emission Reporting	>10.0 - < 30%
CERCLA RQ	5,000 lbs – Quantities less than the RQ amount are not regulated in transportation.

Methylenediphenyldiisocyanate (26447-40-5)
Listed on the United States TSCA (Toxic Substances Control Act) Inventory

US State Regulations

To the best of our knowledge, this product does not contain chemicals at levels which require reporting.

Canadian Regulations

Deck Grabber E HR Part A
Diphenylmethanediisocyanate, isomers and homologues (9016-87-9)
Listed on the Canadian DSL (Domestic Substances List) Inventory

4,4'-methylenediphenyl diisocyanate (101-68-8)
Listed on the Canadian DSL (Domestic Substances List) Inventory

Methylenediphenyldiisocyanate (26447-40-5)
Listed on the Canadian DSL (Domestic Substances List) Inventory

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 07/06/2020

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document

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This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety, and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.

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