

Kg's Boot Guard

Safety Data Sheet

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

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Kg's Boot Guard

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Brush-on boot Protection

1.3. Details of the supplier of the safety data sheet

Kg's Boot Guard
2321 E. Clairemont Ave.
Eau Claire, WI 54701 - USA
T (866)547-2668
www.kgsbootguard.com

1.4. Emergency telephone number

Emergency number : (866)547-2668

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 3	H226
Acute Tox. 4 (Dermal)	H312
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
Carc. 2	H351

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H226 - Flammable liquid and vapor
H312+H332 - Harmful in contact with skin or if inhaled
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P233 - Keep container tightly closed
P260 - Do not breathe mist, spray, vapors
P264 - Wash affected areas thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear personal protective equipment as required
P284 - [In case of inadequate ventilation] wear respiratory protection
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

Kg's Boot Guard

Safety Data Sheet

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

P337+P313 - If eye irritation persists: Get medical advice/attention
P342 - If experiencing respiratory symptoms: Get immediate medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P370+P378 - In case of fire: Use foam, dry extinguishing powder, carbon dioxide (CO₂) to extinguish
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	% by wt	GHS-US classification
xylene, mixture of isomers	(CAS No) 1330-20-7	<= 29.4	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315
polymethylene polyphenyl isocyanate	(CAS No) 9016-87-9	<= 5	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Symptoms of poisoning may not appear for several hours. supervision of a doctor is necessary during at least 48h after an accident happened.
- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Get immediate medical advice/attention. If not breathing, give artificial respiration.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get immediate medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Obtain emergency medical attention. A person vomiting while laying on their back should be turned onto their side.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged exposure to small concentrations may result in pulmonary oedema. Vapor inhalation and/or skin absorption can cause central nervous system effects, including dizziness, light-headedness, headache, nausea and loss of coordination.
- Symptoms/injuries after skin contact : Causes skin irritation. May cause an allergic skin reaction.
- Symptoms/injuries after eye contact : Causes serious eye irritation.
- Symptoms/injuries after ingestion : Nausea. Gastrointestinal complaints. Dizziness.

4.3. Indication of any immediate medical attention and special treatment needed

If swallowed or in case of vomiting, danger of entering the lungs. Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible. In cases of irritation to the lungs, initial treatment with corticosteroid inhalants. If necessary oxygen respiration treatment. Treat skin and mucous membrane with antihistamine and corticoid preparations. Contains diphenylmethanediisocyanate, isomers and homologues. May produce an allergic reaction.

Kg's Boot Guard

Safety Data Sheet

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable liquid and vapor. During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.
Explosion hazard : May form flammable/explosive vapor-air mixture.
Reactivity : Cures with exposure to water vapor.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Isolate from fire, if possible, without unnecessary risk.

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable respiratory equipment in case of insufficient ventilation.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection. Refer to section 8.2.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Leave the product to solidify. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Ensure adequate ventilation, especially in confined areas. Do not flush with water.
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
Hygiene measures : Wash affected areas thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat sources. Do not store near food, foodstuffs, drugs or potable water supplies. Store in a well-ventilated place. Keep container tightly closed. Do not allow water (or moist air) contact with this material.
Incompatible products : Keep away from strong acids, strong bases and oxidizing agents.
Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

No additional information available

Kg's Boot Guard

Safety Data Sheet

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Kg's Boot Guard		
SUPPLIER	TWA (mg/m ³)	0.045 mg/m ³ Limits not to be exceeded at any time.
SUPPLIER	TWA (ppm)	0.005 ppm Limits not to be exceeded at any time.
SUPPLIER	Remark	Contains Isocyanate (as - NCO) which is an ingredient with limit values that require monitoring at the workplace

xylene, mixture of isomers (1330-20-7)		
USA ACGIH	ACGIH TWA (ppm)	100.00 ppm
USA ACGIH	ACGIH STEL (ppm)	150.00 ppm
USA ACGIH	Remark (ACGIH)	Upper Respiratory Tract & eye irritant; Central Nervous System impairment
USA OSHA	OSHA PEL (TWA) (mg/m ³)	435.00 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	100.00 ppm

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Safety glasses. High gas/vapor concentration: gas mask.



Hand protection : Wear protective gloves.
Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Wear suitable protective clothing.
Respiratory protection : In case of inadequate ventilation wear respiratory protection. Combined gas/dust mask with filter type A/P2.
Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Pigment.
Color : Black
Odor : Petroleum-like odor
Odor threshold : No data available
Relative evaporation rate (butylacetate=1) : No data available
Freezing point : No data available
Boiling point : 154 °C (309 °F)
Flash point : 27 °C (81 °F) Method Used: TCC
Auto-ignition temperature : 400 °C (752 °F)
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : 8 - 9 mm Hg (@ 25 °C [77 °F])
Relative vapor density at 20 °C : 3 (@ 68 °F)
Specific Gravity : 1.06 (.865 Xylene Only)
Density : 1.03 g/cm³
Solubility : Water: Forms solid gel
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available

Kg's Boot Guard

Safety Data Sheet

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

Oxidizing properties : No data available

Explosive limits : 1 - 7 vol %

9.2. Other information

VOC content : 29.40 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Cures with exposure to water vapor.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Keep away from strong acids, strong bases and oxidizing agents. water.

10.6. Hazardous decomposition products

May release flammable gases. Carbon monoxide. Carbon dioxide. Fume. Hydrogen cyanide. (prussic acid). Isocyanates. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Dermal: Harmful in contact with skin. Inhalation:dust,mist: Harmful if inhaled.

Kg's Boot Guard	
ATE US (dermal)	1,100 mg/kg bodyweight
ATE US (dust,mist)	2 mg/l/4h
xylene, mixture of isomers (1330-20-7)	
LD50 oral rat	3523 - 8600 mg/kg (3523 mg/kg bodyweight; >4000 mg/kg bodyweight; Rat; Rat; Rat; Experimental value; Experimental value)
LD50 dermal rabbit	> 4,200 mg/kg bodyweight (Rabbit; Experimental value,Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	29 mg/l/4h (27.57 mg/l/4h; Rat; Rat; Experimental value; Experimental value,27.57 mg/l/4h; Rat; Rat; Experimental value; Experimental value)
ATE US (oral)	3,523 mg/kg bodyweight
ATE US (dermal)	1,100 mg/kg bodyweight
ATE US (gases)	4,500 ppmv/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust,mist)	2 mg/l/4h
polymethylene polyphenyl isocyanate (9016-87-9)	
LD50 oral rat	> 10,000 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 5,000 mg/kg (Rabbit; Literature study)
ATE US (gases)	4,500 ppmv/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust,mist)	2 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Kg's Boot Guard

Safety Data Sheet

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

xylene, mixture of isomers (1330-20-7)	
IARC group	3 - Not classifiable
polymethylene polyphenyl isocyanate (9016-87-9)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged exposure to small concentrations may result in pulmonary oedema. Vapor inhalation and/or skin absorption can cause central nervous system effects, including dizziness, light-headedness, headache, nausea and loss of coordination.
Symptoms/injuries after skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Nausea. Gastrointestinal complaints. Dizziness.

SECTION 12: Ecological information

12.1. Toxicity

xylene, mixture of isomers (1330-20-7)	
LC50 fish 1	14 mg/l (96 h; Lepomis macrochirus; Lethal)
EC50 Daphnia 1	150 mg/l (24 h; Daphnia magna)
LC50 fish 2	4 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	7 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	72 mg/l (336 h; Selenastrum capricornutum; Growth)
Threshold limit algae 2	10 mg/l (72 h; Skeletonema costatum)
polymethylene polyphenyl isocyanate (9016-87-9)	
LC50 other aquatic organisms 1	> 1,000 mg/l (96 h)
Threshold limit other aquatic organisms 1	> 1,000 mg/l (96 h)

12.2. Persistence and degradability

xylene, mixture of isomers (1330-20-7)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photolysis in the air.
polymethylene polyphenyl isocyanate (9016-87-9)	
Persistence and degradability	Not readily biodegradable in water. Hydrolysis in water. No (test) data on mobility of the substance available.

12.3. Bioaccumulative potential

xylene, mixture of isomers (1330-20-7)	
BCF fish 1	15 8 weeks; Salmo gairdneri (Oncorhynchus mykiss)
BCF fish 2	7 - 26 (8 weeks; Oncorhynchus mykiss)
Log Pow	3.2 (20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
polymethylene polyphenyl isocyanate (9016-87-9)	
BCF fish 1	1 (Pisces)
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

xylene, mixture of isomers (1330-20-7)	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Kg's Boot Guard

Safety Data Sheet

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

Effect on global warming	:	No known ecological damage caused by this product.
Effect on global warming	:	No additional information available
Other information	:	Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations	:	Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.
Additional information	:	Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	:	Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT	:	
Not a dangerous good in sense of transport regulations	:	
Other information	:	DOT Consumer Commodity Exemption (Part 172.150) Outer Packaging: "Consumer Commodity - ORM-D" and ISO orientation arrows. Pallets: If "Consumer Commodity" on outer packaging is visible labeling not required. Otherwise label as "Consumer Commodity." Container/Trailer: None required.

ADR

No additional information available

Transport by sea

Limited quantities (IMDG)	:	IMDG Exemption for Limited Quantities (IMDG 18.3, 3.26) Outer Packaging: (No requirements) Pallets: Dangerous Goods in Limited Quantities (Class 3 Flammable) Container: "Limited Quantities"
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Air transport

Instruction "passenger" - Limited quantities (ICAO)	:	IATA Limited Quantities Exemption (Part 2.8) For Shipping of product 10 Liters and Under in one Package: Packing Instruction Y309 (No UN Packaging Required). Labels Required: Paint, Flammable Liquid, 3, ISO orientation arrows, shipper and consignee information, and the statement "LTD. QTY". For Shipping of product over 10 Liters in one Package: Packing Instruction 309 or 310 dependent aircraft type (UN Packaging Required). Labels Required: Paint, Flammable Liquid, 3, ISO orientation arrows (cargo only aircraft label if applicable), shipper and consignee information.
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SECTION 15: Regulatory information

15.1. US Federal regulations

Kg's Boot Guard	
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed 9016-87-9 diphenylmethanediisocyanate, isomers and homologues CBD
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard
SARA Section 313 - Emission Reporting	5 % 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

Kg's Boot Guard

Safety Data Sheet

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

15.2. International regulations

CANADA

Kg's Boot Guard

WHMIS Classification

Class B Division 3 - Combustible Liquid

WHMIS Classification



Class B Division 3 -
Combustible Liquid

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

xylene, mixture of isomers (1330-20-7)

Listed on RCRA Hazardous Substances Xylenes (1330-20-7) RCRA Code: U239

Listed on CERCLA Hazardous Substances List (RQ 1000 lb)

Listed on the SC Toxic Air Pollutants List

Listed on Title V

15.3. US State regulations

xylene, mixture of isomers (1330-20-7)

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Massachusetts - Right To Know List

SECTION 16: Other information

Kg's Boot Guard

Safety Data Sheet

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

Full text of H-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 3	Flammable liquids, Category 3
Resp. Sens. 1	Sensitisation — Respiratory, category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapor
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure

NFPA health hazard

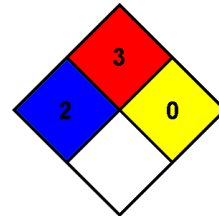
: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard

: 3 - Liquids and solids that can be ignited under almost all ambient conditions.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard

Physical : 0 Minimal Hazard

SDS GHS US (GHS HazCom 2012) OWI

Kg's Boot Guard makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Kg's Boot Guard as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Kg's Boot Guard assume liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.