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A VORTEX COMPANY

I&I GUARD™ SAFETY DATA SHEET

PART B



**REPAIR
MATERIALS**

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	I&I Guard Foam APK 3.1:1-2
Revision Date	02-2019
Product Code	I&I Guard APK
Company	Stag Technologies, 564 W. 9320 S., Sandy, UT 84070
Company Contact	Matthew Peterson
Company Phone	844-STAGTEC
Emergency	Domestic Shipments and to Canada: 1-800-633-8253 International Shipments: 1-801-629-0667

2. HAZARDS IDENTIFICATION

GHS Ratings:

Oral Toxicity	Acute Tox. 4	Oral>300+<=2000mg/kg
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >=2.3 < 4.0 or persistent inflammation
Eye corrosive	2B	Mild eye irritant: Subcategory 2B, Reversible in 7 days
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1B	Skin sensitizer
Carcinogen	2	Limited evidence of human or animal carcinogenicity

GHS Hazards

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H320	Causes eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H351	Suspected of causing cancer

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash ... thoroughly after handling
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P285	In case of inadequate ventilation wear respiratory protection.
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P362	Take off contaminated clothing and wash before reuse.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352	IF ON SKIN: Wash with soap and water.
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists, get medical advice/attention.
P342+P311	Call a POISON CENTER or doctor/physician.
P405	Store locked up.
P501	Dispose of contents/container to ...
Signal Word	Danger



3. COMPOSITION / INFORMATION ON INGREDIENTS

Catalyst	98-94-2	1.00% - 5.00%
Proprietary	6846-50-0	1.00% - 5.00%

4. FIRST AID MEASURE

If inhaled remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms. Rinse immediately with plenty of water for at least 15 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue Rinsing. Get medical attention, if irritation or symptoms of overexposure persists. Immediately wash skin with soap and plenty of water. If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Skin Protection	Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.
Respiratory Protection	A NIOSH air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne.

9. PHYSICAL & CHEMICAL PROPERTIES

Boiling Range	100 to 282°C
Specific Gravity (SG)	1.058
Lbs VOC/Gallon Less Water	0.04
Lbs VOC/Gallon Less Exempt	0.04
% VOL by Volume	0.04

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stable, Hazardous polymerization will not occur. STABLE. Oxidizing Agents. No Data Found. None known, other than Sec. #2 and Sec #5. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity	
Component Toxicity	
Oral	N.D.A.
Dermal	N.D.A.
Inhalation	N.D.A.

12. ECOLOGICAL INFORMATION

No ecotoxicity data was found for the product.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

14. TRANSPORT INFORMATION

UN- Number	Not Applicable
DOT, ADR, IMDG, IATA	Not Applicable
Packaging Group	Not Applicable
Hazard Class	Not Applicable

15. REGULATORY INFORMATION

EPCRA-Emergency Planning and Community Right-to-Know-Act
SARA 311/312 Hazards: Acute Health Hazards

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING!

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

111-46-6 2,2' -oxybisethanol; diethylene glycol 1.5 %

The following chemicals are classified under SARA 313 Toxic Release Inventory (TRI):

111-46-6 2,2' -oxybisethanol; diethylene glycol 1.5 %

Country EU
 Safety Phrase None

Regulation All Components Listed
 REACH (EU) SUBSTANCES OF VERY HIGH CONCERN No
 Toxic Substance Control Act (TSCA) No

16. OTHER INFORMATION

Further information HMIS® is a registered trade and service mark of the NPCA.
 HMIS® ratings Health: 2

Flammability: 1
 Physical hazard: 1

NFPA ratings Health: 2
 Flammability: 1

Instability: 0

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.





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I&I GUARD™ SAFETY DATA SHEET

PART A



**REPAIR
MATERIALS**

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	I&I Guard - Part A
Revision Date	02-2019
Product Code	I&I Guard APK
Company	Stag Technologies, 564 W. 9320 S., Sandy, UT 84070
Company Contact	Matthew Peterson
Company Phone	844-STAGTEC
Emergency	Domestic Shipments and to Canada: 1-800-633-8253 International Shipments: 1-801-629-0667

2. HAZARDS IDENTIFICATION

GHS Ratings:

Inhalation Toxicity	Acute Tox. 1	Gases<=100ppm, Vapors<=0.5mg/l, Dusts&mists<=0.05mg/l
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >=2.3 < 4.0 or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1	Skin sensitizer
Carcinogen	2	Limited evidence of human or animal carcinogenicity

GHS Hazards:

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H330	Fatal if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H351	Suspected of causing cancer

GHS Precautions:

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash ... thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P284	Wear respiratory protection
P285	In case of inadequate ventilation wear respiratory protection
P310	Immediately call a POISON CENTER or doctor/physician
P320	Specific treatment is urgent (see ... on this label)
P321	Specific treatment (see ... on this label)
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P337+P313	If eye irritation persists, get medical advice/attention
P342+P311	Call a POISON CENTER or doctor/physician
P405	Store locked up
P403+P233	Store in a well ventilated place. Keep container tightly closed
P501	Dispose of contents/container to ...
Signal Word	Danger



3. COMPOSITION / INFORMATION ON INGREDIENTS

Polymeric Diphenylmethane Diisocyanate	9016-87-9	50.00% - 60.00%
4,4'Diphenylmethane Diisocyanate	101-68-8	30.00% - 40.00%
Diphenylmethane	5873-54-1	1.00% - 5.00%
Proprietary		0.10% - 1.00%

4. FIRST AID MEASURES

If inhaled remove to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur. Consult a physician immediately if symptoms such as shortness of breath or asthma are observed. A hyper-reactive response to even a minimal concentration of diisocyanates may develop in sensitised persons. This product is a respiratory irritant and potential respiratory sensitiser: repeated inhalation of vapor or aerosol at levels above occupational exposure limit could cause respiratory sensitisation.

Rinse immediately with plenty of water for at least 15 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue Rinsing. Get medical attention, if irritation or symptoms of overexposure persists. Immediately wash skin with soap and plenty of water. Severe allergic skin reactions, bronchospasm and anaphylactic shock possible. If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point	N/A
LEL	N/A
UEL	N/A

Not applicable

Foam, Carbon dioxide (CO₂) or dry chemical or water spray (water stream may be ineffective).

Water may be used if no other available and then in copious quantities. Reaction between water and hot isocyanate may be vigorous.

Not available

Firefighters, and others exposed, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Stop leak. Dike or contain spill. Pump into slavage tanks and/or absorb with suitable material. Use sparkless shovel to remove material. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use appropriate containment and clean up immediately. Corrosive. Avoid personal contact and breathing vapor or mist. Stop leak. Dike and contain spill. Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.

7. HANDLING AND STORAGE

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Avoid exposure to heat, light, and air for prolonged periods of time. Store in a cool, dry well ventilated area away from sources of heat and incompatible materials. Eliminate all ignition materials and incompatible materials. Collect spill with non spark tools. No information available.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name / CAS No.	Polymeric Diphenylmethane Diisocyanate 9016-87-9
OSHA Exposure Limits	Not Established.
ACGIH Exposure Limits	Not Established.
Other Exposure Limits	Not Established.

Chemical Name / CAS No.	4,4'Diphenylmethane Diisocyanate 101-68-8
OSHA Exposure Limits	Not Established.
ACGIH Exposure Limits	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI))
Other Exposure Limits	NIOSH: 0.005 ppm TWA (listed under Methylene bisphenyl isocyanate); 0.05 mg/m ³ TWA 0.020 ppm Ceiling (10 min); 0.2 mg/m ³ Ceiling (10 min)

Chemical Name / CAS No.	Diphenylmethane 5873-54-1
OSHA Exposure Limits	Not Established.
ACGIH Exposure Limits	Not Established.
Other Exposure Limits	Not Established.

Chemical Name / CAS No.	Proprietary
OSHA Exposure Limits	Not Established.
ACGIH Exposure Limits	Not Established.
Other Exposure Limits	Not Established.

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended. Always use adequate ventilation that comply with local regulations.

Eye/face Protection:

Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection:

Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

Respiratory Protection:

A NIOSH air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstance where air purifying respirator may not provide adequate protection.

9. PHYSICAL & CHEMICAL PROPERTIES

Specific Gravity (SG)	1.230
Lbs VOC/Gallon Less Water	0.00
Lbs VOC/Gallon Less Exempt	0.00
% VOL by Volume	0.00

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stable, Hazardous polymerization will not occur. Will react with Polyurethane Resins especially at elevated temperatures.

STABLE.

Polyurethane Resins under uncontrolled conditions

Acids

Amines

Metals

Water

Carbon Dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

Hydrocarbons

Hydrogen cyanide (hydrocyanic acid)

Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity	Inhalation Toxicity LC50: 0mg/L
Component Toxicity	9016-87-9 Polymeric Diphenylmethane Diisocyanate Oral LD50: 49 g/kg (Rat) Inhalation LC50: 490 mg/m ³ (Rat)
	101-68-8 4,4'Diphenylmethane Diisocyanate Inhalation LC50: 369 mg/m ³ (Rat)
Eyes	Irritant to the eyes. Corrosive to Eyes
Skin	Irritant to the skin. Corrosive to Skin
Inhalation	Irritant to respiratory tract. Prolonged or excessive inhalation may cause respiratory tract irritation.
Sensitization:	Skin sensitization in humans.
Avoid breathing vapors	
Oral	N.D.A.
Dermal	N.D.A.
Inhalation	N.D.A.

12. ECOLOGICAL INFORMATION

No ecotoxicity data was found for the product

Component Ecotoxicity

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

14. TRANSPORT INFORMATION

NA 3082, OTHER REGULATED SUBSTANCES, LIQUID, N.O.S. (Methylene Diphenyl Diisocyanate).
DOT Class 9
DOT Packaging Class III
Marine Polutant: No

15. REGULATORY INFORMATION

SARA III: Sec311 & 312

CA PROP. 65 NOTICE: This product does not contain any chemicals known by the State of California to cause cancer, birth defects or any other reproductive harm.

CANADIAN REGULATORY INFORMATION

WHMIS	Class 9
WHMIS Symbols	Stylized T.
WHMIS Trade Secret Registry Numbers	None

Hazardous Products Act Information

This product SDS contains ingredients which are Controlled and/or on the Ingredient Disclosure List (HPA sections 13 and 14).

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:
5873-54-1 Diphenylmethane 1 to 5 %

The following chemicals are classified under SARA 313 Toxic Release Inventory (TRI):

9016-87-9	Polymeric Diphenylmethane Diisocyanate	50 to 60%
101-68-8	4,4'Diphenylmethane Diisocyanate	30 to 40%
5873-54-1	Diphenylmethane	1 to 5%

Country	EU
Regulation	REACH (EU) SUBSTANCES OF VERY HIGH CONCERN Toxic Substance Control Act (TSCA)
All Components Listed	EU - No TSCA - Yes
Safety Phrase	None

16. OTHER INFORMATION

Further information	HMIS® is a registered trade and service mark of the NPCA.
HMIS® ratings	Health: 2 Flammability: 1 Physical hazard: 1
NFPA ratings	Health: 2 Flammability: 1 Instability: 1
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.