

静電気対策工事用接着剤

MODEL: 8403 取扱説明書

文書番号 TBJ-9054

DESCO ASIA

DESCO JAPAN 株式会社

<はじめに>

この度は、静電気対策工事用接着剤をお買い上げいただき誠にありがとうございます。
本製品は、導電性かつハイソリッド、2液式エポキシ接着剤で、導電性・静電気拡散性の8400シリーズ静電気対策ビニールタイルを設置する際にご利用いただくことをお勧めいたします。タイルの下に効果的な電気接地層を作り、静電気を地面へと流します。接着剤はガロン単位で販売されていて、Part A・Part Bの2種類合わせて1ガロンの缶がセットになっています。2種類の缶は、適切な配合比率で混ぜられるように事前に測量されています。1ガロンでおよそ12.5㎡塗ることができます。



ご注意

- (1)本書の内容の一部または全部を無断転載することは禁止されています。
- (2)本書の内容に関しては将来予告なしに変更することがあります。
- (3)本書の内容について万全を期して作成致しましたが、万一ご不審な点や誤り、記載もれ等お気づきの事がありましたら、ご連絡下さい。

<技術資料>

	Part A	Part B	混合液
原料	エポキシ	硬化剤	--
色	半透明	黒	黒
重量/ガロン	4.2 kg/ガロン	3.7 kg/ガロン	4.0 kg/ガロン
比重	1.1	0.99	1.05
引火温度	34°C	30°C	34°C
重量/ガロン	93%	86%	89%
VOC	79g/ℓ	150g/ℓ	115g/ℓ
電気抵抗	--	--	$3.0 \times 10^6 \Omega$ 未満
保存期間	1年	1年	--

<下張り床条件および準備>

本製品は、湿気が発生する場所ではない所であれば傾斜箇所でもタイルを設置する際にお使いいただけます。下張り床は必ず平らにし、清潔、乾燥の状態を保ち、粉状の塵などの汚れやコンクリート養生剤、古い接着剤などが無い状態にしてください。本製品の特性を最大に生かすためには、下張り床の表面を 80~100 のサンドペーパーと同等の質感になるように研磨してください。突出部は排除し、ひび割れやくぼみは良い等級の下張り床剤で埋め、凸凹部分は平らにしてください。

<温度と事前準備>

設置する 48 時間前にはタイルと接着剤の両方を現場に準備しておいてください。推奨される保管・設置の際の温度環境は 19°C~29°C です。

<混合>

混合の際の Part A・Part B の比率は同じではありません。導電性の色素はすべて Part B に含まれています。2 つの液を混ぜ合わせる前にそれぞれの液をしっかりと混ぜてください。(木製かき混ぜ棒が各缶に付属しています。)Part A を Part B の缶に注ぎ、3~5 分混ぜます。

注意: 電気的性質および化学効果の特質を最大限に活かすためには、各液を混合前にしっかりと全体的に混ぜることが大切です。かき混ぜ棒を付けた電気ドリルなどを使って 2 液を Part B の缶で混ぜ合わせてください。速度は 200rpm を超えないように気をつけてください。速いスピードで混ぜてしまうと過度な熱を発生してしまい、エポキシ樹脂の硬化が加速してしまうので塗りづらくなってしまいます。

<塗布>

混合後、直ちに床の上に缶の液体全てを流します。缶の中に液体が残っている場合は、過度な熱を発生しすぐに硬化が始まり使用不可能になります。2 mm×2 mmの凹凸が付いた厚さ2 mmのコテを、床表面に45度の角度であててできるだけ手早く塗り伸ばします。

<散布率>

本製品は、推奨されたコテを使用して、通常1セットあたりおよそ12.5㎡塗ることができます。しかし、散布率は床張り板の気孔率や塗布方法によって変わるので、状況によって調整する必要があります。12.5㎡区画をチョークで印付けすると散布率を管理しやすいでしょう。

<タイルの設置>

接着剤を塗り伸ばした後、通常15～20分程度おいてタイルを設置します。接着剤の可使用時間は約1時間です。可使用時間は気温によって変わるので、状況によって調整する必要があります。タイルを設置場所に落とし、しっかりと接着剤に押し付けます。タイルを接着剤上でスライドさせないでください！注意：設置する間、接着剤がしっかりとタイルにくっついているかを確認するために定期的にタイルを持ち上げてみてください。各タイルの裏面に90%以上が接着剤で覆われている必要があります。設置したばかりのタイルと接触しないように乾いた場所から行ってください。もしタイルの上で作業しなければならない場合は、タイルがずれてしまうのを防ぐために薄い板を敷いて行ってください。タイルを置き終わって少し経った後、70kgのローラーで2回ローラーをかけます。1回目は一方向にかけ、2回目は垂直方向にかけます。最後にもう一度全体的にローラーをかけます。大きなローラーでは届かない場所は、ハンドローラーを使用してください。

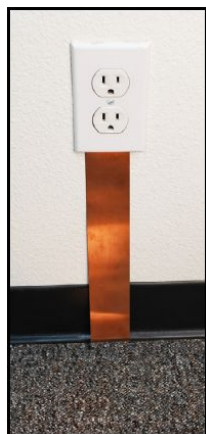
<掃除>

タイル上や器具に付いてしまった接着剤は、石鹼水や変性エチルアルコール、イソプロピルアルコール等を使用して拭き取ってください。

<硬化時間>

通常、設置後24時間経過するとタイル上を歩行できます。タイル上で機器などを移動させる場合は、完全に硬化する48時間後に行ってください。

<接地>



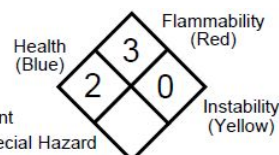
Statguard フロアでは、設置範囲内の100㎡毎に1つの接地銅板を設置することを推奨いたします。タイル材とのしっかりした接触を確保するために、接地銅板の先端にも接着剤を縫ってください。

Safety Data Sheet

May be used to comply with ANSI Z400.1-2004, 29 CFR 1910.1200, Regulation (EC) No 1272/2008 (CLP Regulation) and GHS. Standards must be consulted for specific requirements.

NFPA Designation 704

Degree of Hazard
4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant
Special Hazard



HMIS RATING: Health 2, Flammability 3, Physical Hazard 0, Personal Protection B

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name/Identity: Statguard Flooring 8403 Conductive Epoxy Adhesive, Part A
Chemical Name: Epoxy Resin
Manufacturer: Milamar Coatings, Inc.
Address: 311 NW 122nd Street, Suite 100
Oklahoma City, OK 73114
Telephone: 405-755-8448
Emergency Number: 800-255-3924 or 813-248-0585 (International)

SECTION 2 — HAZARDS IDENTIFICATION

Classification:

Flammable liquid	Category 3
Eye irritation	Category 2A-2B

Labelling:

Symbol: Flame, Exclamation mark.
Signal word: Warning.
Hazard statement: Flammable liquid and Eye irritation.

Precautionary statements:

IF SWALLOWED: Immediately call your doctor or physician. Do NOT induce vomiting.
Do not eat, drink or use with open flame.
Wash hands thoroughly after handling.
Keep container tightly closed.
Keep away from heat/sparks/open flame.
Store in cool ventilated place.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical Identity	CAS No.	Concentration
Reaction products of epichlorohydrin and bisphenol A	25085-99-8	70-80%
Epoxy resin	28064-14-4	10-15%
Amorphous silica	112945-54-5	<5%
Ethanol	64-17-5	<10%

SECTION 4 — FIRST AID MEASURES

Description of necessary first-aid measures:

Eye Contact: Remove contact lenses at once. Immediately flush eyes with large amounts of water or normal saline for at least 30 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a Physician if irritation persists. Wash clothing before reuse. Contaminated Leather Articles, including shoes, cannot be econtaminated and should be destroyed to prevent reuse.

Inhalation:	Remove victim to fresh air if effects occur. If not breathing, give artificial respiration. Get immediate medical attention.
Ingestion:	Do not induce vomiting. If patient is conscious and can swallow, give two glasses of water (16oz.). Get immediate medical attention. Never give anything by mouth to an unconscious or convulsing person.
Most Important symptoms/effects, acute and delayed:	
Signs and Symptoms:	Irritation as noted above. Skin sensitization (allergy) may be evidenced by rashes, especially hives.
Aggravated medical conditions:	Pre-existing skin and eye disorders may be aggravated by exposure to this product. Preexisting skin and lung allergies may increase the chance of developing increased allergy symptoms from exposure to this product.
Other Health Effects:	Based on animal studies, repeated exposure to components of this product may cause damage to liver, kidney, and respiratory systems. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.
Indication of immediate medical attention and special treatment needed, if necessary:	Contact a poison control center for additional treatment information. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

SECTION 5 — FIREFIGHTING MEASURES

Suitable extinguishing media:	Use alcohol type foam, dry chemical, or CO2.
Specific hazards arising from the chemical:	Flash Point is 93°F TCC. None Known.
Special protective actions for fire-fighters:	Use water spray to cool fire Exposed surfaces and to protect personnel. If a leak or spill has not ignited, use ER spray to disperse the vapors. Contain the runoff stream. Try to cover liquid spills with foam. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves, and rubber boots), including a positive pressure IOSH approved self contained breathing apparatus.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Ventilate the area. Avoid breathing vapor. Use self-contained breathing apparatus or supplied air for large spills or confined areas.
Methods and materials for containment and clean up:	Contain spill if possible. Wipe up or absorb on suitable material and pick up with shovels. Do not use sawdust, wood chips, or other cellulosic materials to absorb the spill. Prevent entry into sewers and waterways. Dispose of in accordance with federal, state, and local regulations.

SECTION 7 — HANDLING AND STORAGE

Precautions for safe handling:	Ground all transfer equipment. Take precautionary measures against static discharge. Handle as an industrial chemical.
Conditions for safe storage, including any incompatibilities:	Ground all transfer equipment. Take precautionary measures against static discharge. Handle as an industrial chemical. Keep container tightly closed when not in use. Practice good caution and personal cleanliness to avoid skin and eye contact. Hold bulk storage under nitrogen blanket. Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Component	CAS No.	Percent	Exposure Limits	Source
Reaction products of epichlorohydrin and bisphenol A	25085-99-8	70-80%	None established	
Epoxy resin	28064-14-4	10-15%	None established	
Amorphous silica	112945-54-5	<5%	5 mg/m ³ TWA, Respirable	OSHA
Ethanol	64-17-5	<10%	1000 ppm TWA	OSHA

Appropriate engineering controls: N/A

Individual protection measures, such as personal protective equipment:

Respiratory Protection: Provide adequate ventilation. Avoid breathing of vapors or mists. Airborne concentrations should be kept to lowest levels possible. When exposures are not adequately controlled, use an approved respirator. Selection of air-purifying or positive-pressure supplied air will depend on the specific operation and the potential airborne concentration of material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Protective Clothing: Protective clothing such as uniforms, coveralls, or lab coats must be worn. Launder or dryclean when soiled. Gloves and goggles resistant to chemicals and petroleum distillates required. When handling large quantities, impervious suits, gloves, and rubber boots must be worn.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): Clear/White Paste

Odor: Little to No Odor

Odor threshold: N/A

pH: N/A

Melting point/freezing point: N/A

Initial boiling point and boiling range: Not Determined

Flash Point: 93°F TCC

Evaporation rate: Not Determined

Flammability (solid, gas): N/A

Upper/lower flammability or explosive limits: N/A

Vapor pressure: Not Determined

Vapor Density: Not Determined

Relative density (specific gravity): 1.148

Solubility(ies): Not Soluble (Water)

Partition coefficient; n-octanol/water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

Viscosity: N/A

SECTION 10 — STABILITY AND REACTIVITY

Reactivity: N/A

Chemical stability: Excess heating over long periods of time degrades the resin.

Possibility of hazardous reactions: Will not occur by itself, but masses of more than 1 pound of product plus an aliphatic amine will cause irreversible polymerization with considerable heat buildup.

Conditions to avoid: Avoid exposure to heat, light, flame, or other sources of ignition. Can react vigorously with strong oxidizing agents, strong lewis or mineral acids, and strong mineral and organic base/especially primary and secondary amines. Reaction with some curing agent may produce considerable heat.

Incompatible materials: N/A

Hazardous decomposition products: Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, carbon dioxide, as well as organic compounds of unknown structure.

SECTION 11 — TOXICOLOGICAL INFORMATION

Likely routes of exposure: N/A

Symptoms related to the physical, chemical and toxicological characteristics:

Eye Contact: Irritating and will injure eye tissue if not removed promptly.

Skin Contact: May cause irritation. Has been known to cause allergic skin reaction in humans. Prolonged contact may cause blisters.

Inhalation: High vapor concentrations are irritating to the eyes and respiratory tract, may cause headaches and dizziness.

Ingestion: Oral toxicity is considered to be extremely low.

Delayed and immediate effects and N/A

also chronic effects from short and

long term exposure:

Numerical measures of toxicity:

Ingredient Name	CAS No.	Percent	Acute Oral LD50	Acute Oral LD50	Acute Inhalation LC50
Reaction products of epichlorohydrin and bisphenol A	25085-99-8	70-80%	>5.0 g/kg (rat)	>6.0 g/kg (rat)	Not available
Epoxy resin	28064-14-4	10-15%	>5.0 g/kg (rat)	>3.0 g/kg (rat)	>1.7 mg/L (rat)
Amorphous silica	112945-54-5	<5%	>5000 mg/kg (rat)	No data	No data
Ethanol	64-17-5	<10%	Not available	Not available	Not available

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity: N/A

Persistence and degradability: N/A

Bioaccumulative potential: N/A

Mobility in soil: N/A

Other adverse effects: N/A

SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal methods: Dispose of in accordance with federal, state, and local regulations.

SECTION 14 — TRANSPORT INFORMATION

UN number: UN 1866

UN proper shipping name: UN 1866, Resin Solution, Flammable, 3, PG III

Transport hazard class(es): 3

Packing group, if applicable: III

Environmental hazards: N/A

Transport in bulk: N/A

Special precautions for user: N/A

SECTION 15 — REGULATORY INFORMATION

DSL/NDL:	These items are specified in the public Portion of the Domestic Substances List: CAS Number 28064-14-4 with Maximum Weight 15%. CAS Number 64-17-5 with Maximum Weight 10%.
TSCA:	These items are listed on the U.S. Toxic Substance Control Act: CAS Number 64-17-5 with Maximum Weight 10%.
DSL/NDL:	These items are specified in the public Portion of the Domestic Substances List: CAS Number 25085-99-8 with Maximum Weight 80% CAS Number 28064-14-4 with Maximum Weight 15%. CAS Number 64-17-5 with Maximum Weight 10%.
REACH SVHC:	No items in this product are on REACH's list of Substances of Very High Concern.
EINECS:	All components are included in the EINECS inventories.
SARA Title III:	This product is not subject to the reporting requirements of SARA Title III Section 313.

SECTION 16 — OTHER INFORMATION

HMIS RATING:	Health 2, Flammability 3, Physical Hazard 0, Personal Protection B
NFPA RATING:	Special Hazard: N/A, Health: 2, Flammability: 3, Instability: 0
SDS Updated:	2016-03-29

Disclaimer

OTHER INFORMATION: This 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 other process. Such information is to the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

Safety Data Sheet

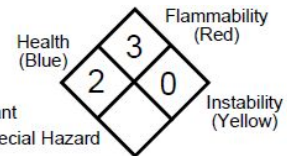
May be used to comply with ANSI Z400.1-2004, 29 CFR 1910.1200, Regulation (EC) No 1272/2008 (CLP Regulation) and GHS. Standards must be consulted for specific requirements.

NFPA Designation 704

Degree of Hazard
 4 = Extreme
 3 = High
 2 = Moderate

1 = Slight
 0 = Insignificant

Special Hazard



HMIS RATING: Health 2, Flammability 3, Physical Hazard 0, Personal Protection B

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name/Identity: Statguard Flooring 8403 Conductive Epoxy Adhesive, Part B
 Chemical Name: Polyamine Hardener
 Manufacturer: Milamar Coatings, Inc.
 Address: 311 NW 122nd Street, Suite 100
 Oklahoma City, OK 73114
 Telephone: 405-755-8448
 Emergency Number: 800-255-3924 or 813-248-0585 (International)

SECTION 2 — HAZARDS IDENTIFICATION**Classification:**

Flammable liquid	Category 3
Eye irritation	Category 2A-2B

Labelling:

Symbol: Flame, Exclamation mark.
 Signal word: Warning.
 Hazard statement: Flammable liquid and Eye irritation.

Precautionary statements:

IF SWALLOWED: Immediately call your doctor or physician. Do NOT induce vomiting.
 Do not eat, drink or use with open flame.
 Wash hands thoroughly after handling.
 Keep container tightly closed.
 Keep away from heat/sparks/open flame.
 Store in cool ventilated place.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS**Mixtures**

Chemical Identity	CAS No.	Concentration
Polyamine Adduct	Proprietary	60-70%
Methanol	67-56-1	10%
Ethanol	64-17-5	<10%
Carbon Black	1333-86-4	10-15%

SECTION 4 — FIRST AID MEASURES**Description of necessary first-aid measures:**

Eye Contact: Remove contact lenses at once. Immediately flush eyes with large amounts of water or normal saline for at least 30 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a Physician if irritation persists. Wash clothing before reuse. Contaminated Leather Articles, including shoes, cannot be econtaminated and should be destroyed to prevent reuse.

Inhalation:	Remove victim to fresh air if effects occur. If not breathing, give artificial respiration. Get immediate medical attention.
Ingestion:	Do not induce vomiting. If patient is conscious and can swallow, give two glasses of water (16oz.). Get immediate medical attention. Never give anything by mouth to an unconscious or convulsing person.
Most Important symptoms/effects, acute and delayed:	
Signs and Symptoms:	Irritation as noted above. Skin sensitization (allergy) may be evidenced by rashes, especially hives.
Aggravated medical conditions:	Pre-existing skin and eye disorders may be aggravated by exposure to this product. Preexisting skin and lung allergies may increase the chance of developing increased allergy symptoms from exposure to this product.
Other Health Effects:	Based on animal studies, repeated exposure to components of this product may cause damage to liver, kidney, and respiratory systems. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.
Indication of immediate medical attention and special treatment needed, if necessary:	Contact a poison control center for additional treatment information. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

SECTION 5 — FIREFIGHTING MEASURES

Suitable extinguishing media:	Use alcohol type foam, dry chemical, or CO ₂ .
Specific hazards arising from the chemical:	Flash Point is 93°F TCC. None Known.
Special protective actions for fire-fighters:	Use water spray to cool fire Exposed surfaces and to protect personnel. If a leak or spill has not ignited, use ER spray to disperse the vapors. Contain the runoff stream. Try to cover liquid spills with foam. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves, and rubber boots), including a positive pressure IOSH approved self contained breathing apparatus.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Ventilate the area. Avoid breathing vapor. Use self-contained breathing apparatus or supplied air for large spills or confined areas.
Methods and materials for containment and clean up:	Contain spill if possible. Wipe up or absorb on suitable material and pick up with shovels. Do not use sawdust, wood chips, or other cellulosic materials to absorb the spill. Prevent entry into sewers and waterways. Dispose of in accordance with federal, state, and local regulations.

SECTION 7 — HANDLING AND STORAGE

Precautions for safe handling:	Ground all transfer equipment. Take precautionary measures against static discharge. Handle as an industrial chemical.
Conditions for safe storage, including any incompatibilities:	Ground all transfer equipment. Take precautionary measures against static discharge. Handle as an industrial chemical. Keep container tightly closed when not in use. Practice good caution and personal cleanliness to avoid skin and eye contact. Hold bulk storage under nitrogen blanket. Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Component	CAS No.	Percent	Exposure Limits	Source
Polyamine Adduct	Proprietary	60-70%	None established	
Methanol	67-56-1	<10%	200 ppm (TWA)	OSHA
Ethanol	64-17-5	<10%	1000 ppm (TWA)	OSHA
Carbon Black	1333-86-4	10-15%	None established	

Appropriate engineering controls: N/A

Individual protection measures, such as personal protective equipment:

Respiratory Protection: Provide adequate ventilation. Avoid breathing of vapors or mists. Airborne concentrations should be kept to lowest levels possible. When exposures are not adequately controlled, use an approved respirator. Selection of air-purifying or positive-pressure supplied air will depend on the specific operation and the potential airborne concentration of material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Protective Clothing: Protective clothing such as uniforms, coveralls, or lab coats must be worn. Launder or dryclean when soiled. Gloves and goggles resistant to chemicals and petroleum distillates required. When handling large quantities, impervious suits, gloves, and rubber boots must be worn.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): Black Paste
Odor: Amine
Odor threshold: N/A
pH: N/A
Melting point/freezing point: N/A
Initial boiling point and boiling range: Not Determined
Flash Point: 54°F TCC
Evaporation rate: Not Determined
Flammability (solid, gas): N/A
Upper/lower flammability or explosive limits: N/A
Vapor pressure: Not Determined
Vapor Density: Not Determined
Relative density (specific gravity): 0.99
Solubility(ies): Not Soluble (Water)
Partition coefficient; n-octanol/water: N/A
Auto-ignition temperature: N/A
Decomposition temperature: N/A
Viscosity: N/A

SECTION 10 — STABILITY AND REACTIVITY

Reactivity: N/A
Chemical stability: Excess heating over long periods of time degrades the resin.
Possibility of hazardous reactions: Will not occur by itself.
Conditions to avoid: Avoid exposure to heat, light, flame, or other sources of ignition. Can react vigorously with strong oxidizing agents.
Incompatible materials: N/A
Hazardous decomposition products: Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, carbon dioxide, as well as organic compounds of unknown structure.

SECTION 11 — TOXICOLOGICAL INFORMATION

Likely routes of exposure: N/A

Symptoms related to the physical, chemical and toxicological characteristics:

Eye Contact: Irritating and will injure eye tissue if not removed promptly.
Skin Contact: May cause irritation. Has been known to cause allergic skin reaction in humans. Prolonged contact may cause blisters.
Inhalation: High vapor concentrations are irritating to the eyes and respiratory tract, may cause headaches and dizziness.
Ingestion: Oral toxicity is considered to be extremely low.
Delayed and immediate effects and also chronic effects from short and long term exposure: N/A
Numerical measures of toxicity:

Ingredient Name	CAS No.	Percent	Acute Oral LD50	Acute Oral LD50	Acute Inhalation LC50
Polyamine Adduct	Proprietary	60-70%	<=2.0 g/kg (rat)	<=2.0 g/kg	<=5.0 mg/L
Methanol	67-56-1	<10%	2000 mg/kg (rabbit)	Not available	Not available
Ethanol	64-17-5	<10%	Not available	Not available	Not available
Carbon Black	1333-86-4	10-15%	>8.0 g/kg (rat)	Not available	Not available

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity: N/A
Persistence and degradability: N/A
Bioaccumulative potential: N/A
Mobility in soil: N/A
Other adverse effects: N/A

SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal methods: Dispose of in accordance with federal, state, and local regulations.

SECTION 14 — TRANSPORT INFORMATION

UN number: UN2924
UN proper shipping name: UN 2924, Flammable Liquid, Corrosive, nos, 3(8), PG II, (methanol and polyamines)
Transport hazard class(es): 3(8)
Packing group, if applicable: II
Environmental hazards: N/A
Transport in bulk: N/A
Special precautions for user: N/A

SECTION 15 — REGULATORY INFORMATION

SARA Title III: These items are listed and subjected to the reporting requirements of the SARA Title III Section 313 Inventory of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR37: CAS Number 67-56-1 with Maximum Weight 10%

California proposition 65: These items are listed in the California Safe Drinking Water and Toxic Enforcement Act: CAS Number 67-56-1 with Maximum Weight 10%. CAS Number 1333-86-4 with Maximum Weight 15%.

TSCA: These items are listed on the U.S. Toxic Substance Control Act: CAS Number 67-56-1 with Maximum Weight 10%. CAS Number 64-17-5 with Maximum Weight 20%. CAS Number 1333-86-4 with Maximum Weight 15%.

DSL/NDL: These items are specified in the public Portion of the Domestic

Substances List: CAS Number 67-56-1 with Maximum Weight 10%.
CAS Number 64-17-5 with Maximum Weight 10%. CAS Number
1333-86-4 with Maximum Weight 15%.

REACH SVHC: No items in this product are on REACH's list of Substances of Very High Concern.

EINECS: All components are included in the EINECS inventories.

SECTION 16 — OTHER INFORMATION

HMIS RATING: Health 2, Flammability 3, Physical Hazard 0, Personal Protection B

NFPA RATING: Special Hazard: N/A, Health: 2, Flammability: 3, Instability: 0

SDS Updated: 2016-03-29

Disclaimer

OTHER INFORMATION: This 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 other process. Such information is to the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

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- (2) 当社以外で行われた修理、改造等による故障。
- (3) 火災、天災、地変等による故障。
- (4) 使用環境、メンテナンスの不備による故障。

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* 本保証内容は、日本国内においてのみ有効です。

機器に明らかなる不良がある場合については、下記内容を当社にご連絡下さい。

- | | |
|--------------------|-----------------|
| 1) 機種名または、品番 | 4) ご購入年月日 |
| 2) 製品シリアルナンバー | 5) 御社名、部署名、担当者名 |
| 3) 不良内容(できるだけ具体的に) | 6) 連絡先 |

以上の内容を検討致し返却取扱ナンバーを御社に連絡致します。製品を返却する場合は、返却取扱ナンバーを製品に添付してご返却下さい。

返却ナンバーが表示されていない場合は、保証の対象とならない場合があります。

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