# **SAFETY DATA SHEET**

## Section 1. Identification

GHS product identifier	:
Product code	: · · · · · · · · · · · · · · · · · · ·
Other means of identification	:
Product type	:
Identified uses	:
Supplier's details	:

#### Emergency telephone number (with hours of operation)

2

Section 2. Hazards identification	
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	<ul> <li>SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2</li> </ul>
GHS label elements Hazard pictograms	
Signal word	: Warning
Hazard statements	<ul> <li>H319 - Causes serious eye irritation.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	



### Section 2. Hazards identification

Prevention	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapor.</li> <li>P264 - Wash hands thoroughly after handling.</li> <li>P272 - Contaminated work clothing should not be allowed out of the workplace.</li> </ul>
Response	<ul> <li>P391 - Collect spillage.</li> <li>P302 + P352 + P362-2 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical attention.</li> </ul>
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified (HNOC)	: None known.

### Section 3. Composition/information on ingredients

Substance/	'mixture

: Mixture

#### CAS number/other identifiers

CAS number : Not applicable.		
Ingredient name	%	CAS number
Epoxy Resin Cashew, nutshell liq., glycidyl ethers Phenol, polymer with formaldehyde, glycidyl ether	60 - 100 10 - 30 10 - 30	25068-38-6 171263-25-5 28064-14-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Maintain an open airway. Get medical attention if symptoms occur.
Skin contact	: Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.



## Section 4. First aid measures

Most important symptoms/e	effects, acute and delayed	
Potential acute health effe	<u>cts</u>	
Eye contact	: Causes serious eye irritation.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.	
Ingestion	: Irritating to mouth, throat and stomach.	
Over-exposure signs/symp	<u>otoms</u>	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: Adverse symptoms may include the following: irritation redness	
Ingestion	: No known significant effects or critical hazards.	
Indication of immediate medical attention and special treatment needed, if necessary		
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>	
Specific treatments	: No specific treatment.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds
Special protective actions for fire-fighters	: No special measures are required.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures : Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate For non-emergency respirator when ventilation is inadequate. Put on appropriate personal protective personnel equipment. If specialized clothing is required to deal with the spillage, take note of any information in For emergency responders 12 Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel". **Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage. Methods and materials for containment and cleaning up Spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section

1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

#### Precautions for safe handling

r recautions for sale nanuling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### Control parameters

Occupational exposure limits None.

Appropriate engineering	1	(
controls		(

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

## Section 8. Exposure controls/personal protection

Environmental exposure	:	Emissions from ventilation or work process equipment should be checked to ensure
controls		they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## **Section 9. Physical and chemical properties**

Appearance	
Physical state	: Liquid. [Viscous.]
Color	: Colored.
Odor	: Phenolic. [Slight]
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: >93.333°C (>200°F)
Flash point	: Closed cup: >93.3°C (>199.9°F) [Setaflash.]
Evaporation rate	: <1 (Butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: 0.012 kPa (0.09 mm Hg) [room temperature]
Vapor density	: >1 [Air = 1]
Relative density	: 1.13
Solubility	: Negligible in water.
Partition coefficient: n- octanol/water	: Not available.



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## Section 9. Physical and chemical properties

Auto-ignition temperature	: Not available	э.
Decomposition temperature	: Not available	э.
Viscosity	: Not available	э.
Volatility	: 0% (v/v)	

### Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Excessive heat.
Incompatible materials	: Reactive or incompatible with the following materials: Strong Acids, Bases, Amines, Mercaptans.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Reaction product: Bisphenol A- (epichlorhydrin)	LD50 Oral	Rat	11.4 g/kg	-
Phenol, polymer with formaldehyde, glycidyl ether	LD50 Dermal	Rat	>2000 mg/kg	-
giyolayi etilel	LD50 Oral	Rat	>2000 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Reaction product: Bisphenol A- (epichlorhydrin)	Skin - Moderate irritant	Rabbit	-	24 hours 500 μL	-
	Eyes - Mild irritant Skin - Severe irritant	Rabbit Rabbit	-	100 mg 24 hours 2 mg	-

#### Sensitization

There is no data available.

#### **Carcinogenicity**

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

#### Aspiration hazard

There is no data available.



	ological information
Information on the likely routes of exposure	: Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effect	<u>s</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Irritating to mouth, throat and stomach.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No known significant effects or critical hazards.
Delayed and immediate effe	cts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Long term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Potential chronic health eff	fects
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
	: No known significant effects or critical hazards.
Carcinogenicity	No known aignificant affacts or aritical bazarda
Carcinogenicity Mutagenicity	: No known significant effects or critical hazards.
	<ul> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> </ul>
Mutagenicity	-

#### Numerical measures of toxicity

Acute toxicity estimates

There is no data available.



## Section 12. Ecological information

#### **Toxicity**

There is no data available.

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Reaction product: Bisphenol A- (epichlorhydrin)	-	31	low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: There is no data available.

#### Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of
	out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT	IMDG	ΙΑΤΑ
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenol, polymer with formaldehyde, glycidyl ether). Marine pollutant (Phenol, polymer with formaldehyde, glycidyl ether)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenol, polymer with formaldehyde, glycidyl ether). Marine pollutant (Phenol, polymer with formaldehyde, glycidyl ether)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenol, polymer with formaldehyde, glycidyl ether)
Transport hazard class(es)	9	9	9
Packing group	Ш	Ш	Ш
Environmental hazards	Yes.	Yes.	Yes.
	Tol : ±1 888 CL	' +S-7769 (447-7769) / +1-450-GHS-7767 (44	· 17 7767)



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## Section 14. Transport information

Additional information	unless transported by inland waterway.	kg.	The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5 L$ or $\leq 5 kg$ .
	The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg.		

**AERG :** 171

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

### Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	United States inventory (TSCA 8b): All components are listed or exempted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
<u>SARA 302/304</u>	
Composition/information	on ingredients
No products were found.	
SARA 304 RQ	: Not applicable.
<u>SARA 311/312</u>	
Classification	: Immediate (acute) health hazard
	ere in such all erefe

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	(acute) health	Delayed (chronic) health hazard
Reaction product: Bisphenol A-(epichlorhydrin) Cashew, nutshell liq., glycidyl ethers Phenol, polymer with formaldehyde, glycidyl ether	10 - 30	No. No. No.	No.	No. No. No.	Yes. Yes. Yes.	No. No. No.

#### **SARA 313**

No products were found.

#### State regulations

- **Massachusetts**
- New York

- : None of the components are listed.
- : None of the components are listed.

## Section 15. Regulatory information

**New Jersey** 

: None of the components are listed.

**Pennsylvania** 

: None of the components are listed.

California Prop. 65

No products were found.

### Section 16. Other information

<u>History</u>		
Date of issue mm/dd/yyyy	1	05/15/2015
Version	1	1
Prepared by	:	KMK Regulatory Services Inc.
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Printing date 06/17/2013

Reviewed on 06/17/2013

#### 1 Identification

- · Product identifier
- · Product Description: Damp Surface Coating Part B
- · Product code:
- · Application of the substance / the preparation Coating
- Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Tri-Chem Corporation 431 Stephenson Hwy. Troy, MI 48083

www.tri-chem.com info@tri-chem.com 800-456-6255

- · Information department: Product safety department
- Emergency telephone number: 800-535-5053

#### 2 Hazard(s) identification

Classification of the substance or mixture



GHS08 Health hazard

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.
- H227 Combustible liquid.

#### Classification according to Directive 67/548/EEC or Directive 1999/45/EC

#### Irritant

Irritating to eyes and skin. May cause sensitisation by inhalation and skin contact.

Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of international guidelines.

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

#### Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



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Product Description: Damp Surface Coating Part B

· Signal word	d Danger (Contd. of page 1)
· Hazard-det	ermining components of labeling:
ethylenediar	
· Hazard stat	
H227 Comb	ustible liquid.
H315 Cause	es skin irritation.
	es serious eye irritation.
	ause allergy or asthma symptoms or breathing difficulties if inhaled.
	ause an allergic skin reaction.
	ary statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P284 P261	In case of inadequate ventilation wear respiratory protection.
	Avoid breathing dust/fume/gas/mist/vapours/spray. +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
F305+F351	lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· Classificati	
	gs (scale 0 - 4)
2	Health = 1
	Fire = 2
	Reactivity = 0
· HMIS-rating	gs (scale 0 - 4)
HEALTH	Health = *1
FIRE 2	Fire = 2
REACTIVITY 0	Reactivity = 0

#### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

#### · Dangerous components:

107-15-3	ethylenediamine	
	🗾 C R34; 💥 Xn R21/22; 💥 Xi R42/43	
	R10	
	♦ H226; ♦ H334; ♦ H314; ♦ H302; H312; H317	

< 3.0%

#### 4 First-aid measures

#### · Description of first aid measures

- · After inhalation:
- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.

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Product Description: Damp Surface Coating Part B

· After eye contact:

- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### 5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
   Promptly isolate the scene by removing all person from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.

• Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

#### 7 Handling and storage

- · Handling:
- Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities Keep container tightly closed and in a well ventilated place.
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

(Contd. on page 4)

LISA

Printing date 06/17/2013

Reviewed on 06/17/2013

#### Product Description: Damp Surface Coating Part B

(Contd. of page 3)

#### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- Control parameters
- · Components with limit values that require monitoring at the workplace:
- 107-15-3 ethylenediamine
- PEL 25 mg/m<sup>3</sup>, 10 ppm
- REL 25 mg/m<sup>3</sup>, 10 ppm
- TLV 25 mg/m<sup>3</sup>, 10 ppm

Skin
• Additional information: The lists that were valid during the creation were used as basis.

#### · Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### · Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

(Contd. on page 5)

USA

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Product Description: Damp Surface Coating Part B

(Contd. of page 4)

Information on basic physical and General Information	chemical properties	
Appearance: Form: Color: Odor: Odour threshold:	Liquid Light yellow Amine-like Not determined.	
PH-value at 25 ℃ (77 °F):	10.5	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. > 93 °C (> 199 °F)	
Flash point:	70 ℃ (158 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Not determined.	
Explosion limits: Lower: Upper:	Not determined. Not determined.	
· Vapor pressure:	Not determined.	
• Density at 25 ℃ (77 ℉): • Relative density • Vapour density • Evaporation rate	0.98977 g/cm <sup>3</sup> (8.26 lbs/gal) Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wat	ter): Not determined.	
· Viscosity: Dynamic at 25 ℃ (77 °F): Kinematic: · Other information	2500 cps Not determined. No further relevant information available.	

#### 10 Stability and reactivity

- · Reactivity
- · Chemical stability Product is stable.
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

(Contd. on page 6)

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Reviewed on 06/17/2013

Product Description: Damp Surface Coating Part B

(Contd. of page 5)

· Hazardous decomposition products: No dangerous decomposition products known.

#### 11 Toxicological information

Information on toxicological effects

· Acute toxicity:

• LD/LC50 values that are relevant for classification: Irritating to eyes and skin.

#### 107-15-3 ethylenediamine

BURNER PRESS	40469294 S04062 S0468	
Oral	LD50	500 mg/kg (rat)
Dermal	LD50	730 mg/kg (rabbit)
Inhalative	LC50/4 h	0.3 mg/l (mouse)

#### · Primary irritant effect:

- · on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

#### Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful Irritant

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

#### 12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Other adverse effects No further relevant information available.

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Product Description: Damp Surface Coating Part B

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#### 13 Disposal considerations

#### · Waste treatment methods

#### · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

JN-Number	
DOT, ADR, IMDG, IATA	Void
JN proper shipping name	Not regulated as dangerous goods
DOT, ADR, IMDG, IATA	Void
Transport hazard class(es)	
DOT, IMDG, IATA	
Class	Void
_abel	razonani Gel
ADR	
Class	Void
	Miscellaneous dangerous substances and articles
_abel	*
Packing group	
DOT, ADR, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Fransport in bulk according to Annex II of	1
MARPOL73/78 and the IBC Code	Not applicable.
JN "Model Regulation":	UN-, -

#### 15 Regulatory information

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

- Section 355 (extremely hazardous substances):
- 107-15-3 ethylenediamine
- · Section 313 (Specific toxic chemical listings):
- None of the ingredients is listed.
- TSCA (Toxic Substances Control Act):
- All ingredients are listed.

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USA

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Product Description: Damp Surface Coating Part B

· Proposition 65		(Contd. of page 7)
and the state of the second state of the secon	n to cause cancer:	
None of the ingred		
	to cause reproductive toxicity for	females
None of the ingred		ienales.
st progra de lese a <b>m</b> indes		and and a second se
	n to cause reproductive toxicity for	males:
None of the ingree		
	n to cause developmental toxicity:	
None of the ingree	ients is listed.	
· Carcinogenic ca	egories	
· EPA (Environme	ntal Protection Agency)	
107-15-3 ethylen	diamine	D
· TLV (Threshold I	imit Value established by ACGIH)	
107-15-3 ethylen		A4
NETON: METONIC BURNING SOME	nal Institute for Occupational Safety	( and Health)
None of the ingred	CONSISTENTIAL CONSISTENCE CONTRACTOR CONSISTENCE CONTRACTOR CONTRACT	and reality
		1
None of the ingred	ational Safety & Health Administrat	юп)
GHS08		
· Signal word Dan	jer	
ethylenediamine • Hazard statemen		
H227 Combustible		
H315 Causes skir H319 Causes ser		
	allergy or asthma symptoms or breathi	ng difficulties if inhaled.
H317 May cause	an allergic skin reaction.	
· Precautionary st		
P101 P102	If medical advice is needed, have pro Keep out of reach of children.	duct container or label at hand.
P103	Read label before use.	
P210	Keep away from heat/sparks/open fla	mes/hot surfaces No smoking.
P284	In case of inadequate ventilation wea	
P261	Avoid breathing dust/fume/gas/mist/v	
P305+P351+P338	IF IN EYES: Rinse cautiously with lenses, if present and easy to do. Co	water for several minutes. Remove contact
P321	Specific treatment (see on this label)	
		(Contd. on page 9)

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Product Description: Damp Surface Coating Part B

(Contd. of page 8) P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing MSDS: Product safety department

Contact: Mr Eleazar dela Cruz
 Abbreviations and acronyms:

 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent

USA