

Printing date 05/27/2015

Safety Data Sheet

acc. to OSHA HCS

Reviewed on 05/26/2015

1 Identification

- [•] Product identifier
- Trade name: 80-1089 Part A- Kim-Bond Fast Cure Epoxy
- · Application of the substance / the mixture Adhesive
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Kimball Midwest
 4800 Roberts Road
 Columbus, OH 43228
 Corporate Telephone: 800.233.1294
 Emergency Telephone: Chemtrec 1.800.424.9300
- Information department: Product safety department
 Emergency telephone number: Emergency Telephone: Chemtrec 1.800.424.9300

2 Hazard(s) identification

Classification of the substance or mixture



Skin Irrit. 2H315Causes skin irritation.Eye Irrit. 2AH319Causes serious eye irritation.Skin Sens. 1H317May cause an allergic skin reaction.

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

Irritant

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

Dangerous for the environment

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**



· Signal word Warning

- Hazard-determining components of labeling:
- reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Hazard statements

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

• **Precautionary statements** If medical advice is needed, have product container or label at hand. Keep out of reach of children.

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Trade name: 80-1089 Part A- Kim-Bond Fast Cure Epoxy

(Contd. of page 1) Read label before use. Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves. Wear eye protection / face protection. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Dispose of contents/container in accordance with local/regional/national/international regulations. Other hazards Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances

CAS No. Description

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Identification number(s)

- NLP Number: 500-033-5
- · Index number: 603-074-00-8
- [•] Chemical characterization: Mixtures

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

Dangerous components:

 $\begin{array}{c|c} 25068-38-6 \\ 700 \end{array} \text{ reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight } 50-100\% \end{array}$

4 First-aid measures

[•] Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- [·] Information for doctor:
- · Most important symptoms and effects, both acute and delayed Breathing difficulty
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- * Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation • Environmental precautions:

Do not allow product to reach sewage system or any water course.

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Trade name: 80-1089 Part A- Kim-Bond Fast Cure Epoxy

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up: 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

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

- Storage:
- Requirements to be met by storerooms and receptacles:
- Store in a cool location.

Store only in the original receptacle.

- Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Avoid contact with the eyes and skin.

• Breathing equipment: Not necessary if room is well-ventilated.

Protection of hands:



Protective gloves

Impervious gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves Nitrile rubber, NBR
- 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. Not suitable are gloves made of the following materials:

Cotton or natural fibers

PVC gloves

Eye protection: Safety glasses Reviewed on 05/26/2015

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Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical properties

 Information on basic physical and che General Information Appearance: 	emical properties
Form:	Viscous
Color:	Clear
· Odor:	Characteristic
[·] Odour threshold:	Not determined.
[·] pH-value:	Not determined.
[•] Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 250 °C (> 482 °F)
· Flash point:	> 204 °C (> 399 °F)
[·] Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
• Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
• Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic: Kinematic:	Not determined.
	Not determined.
Solvent content:	
Organic solvents:	0.0 %
Other information	No further relevant information available.
10 Stability and reactivity	

- · Reactivity
- · Chemical stability
- 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.

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· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- [•]Additional toxicological information:

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

· OSHA-Ca (Occupational Safety & Health Administration)

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.
- Ecotoxical effects:
- · Remark: Toxic for fish
- Additional ecological information:
- General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

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.

14 Transport information

- UN-Number
- · DOT, ADN, IMDG, IATA
- · UN proper shipping name
- DOT, ADN, IMDG, IATA

Void

Trade name: 80-1089 Part A- Kim-Bond Fast Cure Epoxy

· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA	
Class	Void
[·] Packing group	
DOT, IMDG, IATA	Void
• Environmental hazards:	
[•] Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of Annex II	of
MARPOL73/78 and the IBC Code	Not applicable.
[•] UN "Model Regulation":	-

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

⁻ Sara
Section 355 (extremely hazardous substances):
None of the ingredients is listed.
Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.
TSCA (Toxic Substances Control Act):
All ingredients are listed.
Proposition 65
Chemicals known to cause cancer:
None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
• Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
· Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
· Carcinogenic categories
EPA (Environmental Protection Agency)

• EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS). • **Hazard pictograms**



· Signal word Warning

Hazard-determining components of labeling:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Hazard statements

Causes skin irritation.

Causes serious eye irritation. May cause an allergic skin reaction. (Contd. of page 5)

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Trade name: 80-1089 Part A- Kim-Bond Fast Cure Epoxy

Precautionary statements

If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves. Wear eye protection / face protection. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 SDS: Environment protection department.
- · Contact: Kimball Midwest Regulatory
- Date of preparation / last revision 05/27/2015 / 5
- 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 EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

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Specializing in Materials Management

Printing date 05/27/2015

Safety Data Sheet

acc. to OSHA HCS

Reviewed on 05/26/2015

1 Identification

- [•] Product identifier
- Trade name: 80-1089 Part B- Kim-Bond Fast Cure Epoxy
- Application of the substance / the mixture Adhesive
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Kimball Midwest
 4800 Roberts Road
 Columbus, OH 43228
 Corporate Telephone: 800.233.1294
 Emergency Telephone: Chemtrec 1.800.424.9300
- Information department: Product safety department
 Emergency telephone number: Emergency Telephone: Chemtrec 1.800.424.9300

2 Hazard(s) identification

Classification of the substance or mixture



Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable. 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**



· Signal word Warning · Hazard statements Causes skin irritation. Causes serious eye irritation. Precautionary statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Wear protective gloves. Wear eye protection / face protection. Wash thoroughly after handling. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

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Trade name: 80-1089 Part B- Kim-Bond Fast Cure Epoxy

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- [·] Other hazards
- [•] Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

[•] Chemical characterization: Mixtures

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

· Dangerous components: Void

4 First-aid measures

[•] Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- [•] Information for doctor:
- Most important symptoms and effects, both acute and delayed Breathing difficulty

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation
- Environmental precautions: Do not allow product to reach sewage system or any water course.

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

Store in cool, dry place in tightly closed receptacles. Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Ensure good ventilation/exhaustion at the workplace.

· Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

- Storage:
- Requirements to be met by storerooms and receptacles:
- Store in a cool location.

Store only in the original receptacle.

- Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

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

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Trade name: 80-1089 Part B- Kim-Bond Fast Cure Epoxy

Reviewed on 05/26/2015

(Contd. of page 2)

workplace.	uire monitoring at the workplace: uantities of materials with critical values that have to be monitored at the re valid during the creation were used as basis.
Selection of the glove material on consideration Material of gloves Nitrile rubber, NBR Penetration time of glove material	ng chemicals should be followed. bom is well-ventilated. nd resistant to the product/ the substance/ the preparation. ion of the penetration times, rates of diffusion and the degradation d out by the manufacturer of the protective gloves and has to be observed.
9 Physical and chemical propertie	es
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor:	emical properties Viscous Light yellow Characteristic Not determined.
[·] pH-value:	Not determined.

Undetermined. Undetermined.

Not applicable.

Not determined.

Product is not selfigniting.

Product does not present an explosion hazard.

> 100 °C (> 212 °F)

Change in condition
Melting point/Melting range:
Boiling point/Boiling range:

[•] Flash point:

- Flammability (solid, gaseous):
- · Ignition temperature:

Decomposition temperature:

• Auto igniting:

[•] Danger of explosion:

• Explosion limits: Lower: Upper:

- · Vapor pressure:
- · Density:
- [•] Relative density
- · Vapour density
- · Evaporation rate
- [·] Solubility in / Miscibility with Water:

Not miscible or difficult to mix.

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Trade name: 80-1089 Part B- Kim-Bond Fast Cure Epoxy

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Partition coefficient (n-	ctanol/water): Not determined.
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· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
• Solvent content:	
Organic solvents:	0.0 %
Other information	No further relevant information available.

10 Stability and reactivity

Reactivity

[•] Chemical stability

- 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.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects

- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

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.

OSHA-Ca (Occupational Safety & Health Administration)

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: Not known to be hazardous to water.
- [•] Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

[·] Waste treatment methods

[•] Recommendation:

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

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Trade name: 80-1089 Part B- Kim-Bond Fast Cure Epoxy

(Contd. of page 4)

Reviewed on 05/26/2015

[•] Uncleaned packagings:

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

14 Transport information

· UN-Number	
[·] DOT, ADN, IMDG, IATA	Void
	VOIG
UN proper shipping name	
· DOT, ADN, IMDG, IATA	Void
 Transport hazard class(es) 	
· DOT, ADN, IMDG, IATA	
Class	Void
Packing group	Volu
· DOT, IMDG, IATA	Void
• Environmental hazards:	
· Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II o	F
MARPOL73/78 and the IBC Code	
	Not applicable.
· UN "Model Regulation":	-

15 Regulatory information

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

 Section 355 (extremely hazardous substances): 	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	_
TSCA (Toxic Substances Control Act):	
None of the ingredients is listed.	
[•] Proposition 65	
[•] Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
TLV (Threshold Limit Value established by ACGIH)	
None of the ingredients is listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
CHS label elements The product is clearified and labeled eccenting to the Clabelly Lementized System (CLIS)	

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

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Trade name: 80-1089 Part B- Kim-Bond Fast Cure Epoxy

Reviewed on 05/26/2015

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Hazard pictograms



· Signal word Warning Hazard statements Causes skin irritation. Causes serious eye irritation. Precautionary statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Wear protective gloves. Wear eye protection / face protection. Wash thoroughly after handling. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 SDS: Environment protection department.
- · Contact: Kimball Midwest Regulatory
- Date of preparation / last revision 05/27/2015 / 2
- 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 EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A