

Safety Data Sheet

acc. to OSHA HCS & WHMIS

Printing date 03/16/2015

Reviewed on 03/16/2015

1 Identification

- **Trade name:** **KEMPEROL® Reflect 2K FR Component A**
- **Article number:** 329-47-025 (A), 329-47-055 (A), 329-47-105 (A)
- **MSDS Number:** 282
- **UPC bar code(s):** 12820 0, 12825 5, 12830 9
- **Relevant identified uses of the substance:** Waterproofing resin
- **Manufacturer/Supplier:**
Kemper System America Inc.
1200 North America Dr.
West Seneca, NY 14224
USA
- **Information department:**
Tel: (716) 558-2971 ext. 228
www.kempersystem.net
- **Emergency telephone number:**
ChemTrec (800) 424-9300
Canada only: CANUTEC (Call collect) (613) 996-6666



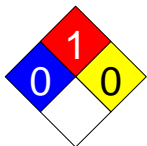
2 Hazard(s) identification

- **Classification of the substance or mixture:**



Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Signal word:** Warning
- **Hazard-determining components of labeling:**
2-n-butyl-benzo[d]isothiazol-3-one
- **Hazard statements:**
May cause an allergic skin reaction.
- **Precautionary statements:**
Avoid breathing mist/vapours/spray.
Wear protective gloves.
Contaminated work clothing must not be allowed out of the workplace.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
If on skin: Wash with plenty of water.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **NFPA ratings (scale 0 - 4):**



Health = 0
Fire = 1
Reactivity = 0

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3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

13463-67-7	titanium dioxide	10-<25%
57-55-6	Propylene Glycol	1-<3%
4299-07-4	2-n-butyl-benzo[d]isothiazol-3-one	0.1-<0.25%
115-86-6	triphenyl phosphate	0.1-<0.3%

- **Additional information:** Exact concentrations are being withheld as trade secrets.

4 First-aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or a rash occurs: Get medical advice/attention.
- **After eye contact:**
Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.
- **After swallowing:** If symptoms persist consult 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

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear protective clothing.
- **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).
- **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

- **Precautions for safe handling:** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.

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- **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:** 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.

- **Components with limit values that require monitoring at the workplace:**

57-55-6 Propylene Glycol

EV	Long-term value: 155* 10** mg/m ³ , 50* ppm *vapour and aerosol; **aerosol only
----	---

115-86-6 triphenyl phosphate

EL	Long-term value: 3 mg/m ³
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EV	Long-term value: 3 mg/m ³
----	--------------------------------------

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Material of gloves:**
Neoprene gloves
Butyl rubber, BR
Nitrile rubber, NBR
- **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

- | | |
|---|---|
| · Form: | Liquid |
| · Color: | White |
| · Odor: | Characteristic |
| · Odour threshold: | Not determined. |
| · pH-value: | Not determined. |
| · Change in condition | |
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 185 °C |
| · Flash point: | 101 °C |
| · Flammability (solid, gaseous): | Not applicable. |
| · Ignition temperature: | > 450 °C |
| · Decomposition temperature: | Not determined. |
| · Auto igniting: | Product is not selfigniting. |
| · Danger of explosion: | Product does not present an explosion hazard. |

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· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C:	1 hPa
· Density at 20 °C:	1.33 g/cm ³
· 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:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.16 %
Solids content:	70.4 %
· Other information	VOC: 2 g/L (Components A+B)

10 Stability and reactivity

- **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**
- **Specific symptoms in biological assay:** No further relevant information available.
- **Primary irritant effect**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**

- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
13463-67-7	titanium dioxide	2B
1318-02-1	Zeolite powder 3 A	3
60676-86-0	Silica, fused	3
1330-20-7	xylene	3

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· **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

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **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.

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:**
Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

14 Transport information

- | | |
|--|-----------------|
| · UN-Number | |
| · DOT, TDG, ADN, IMDG, IATA | Not regulated |
| · UN proper shipping name | |
| · DOT, TDG, ADN, IMDG, IATA | Not regulated |
| · Transport hazard class(es) | |
| · DOT, TDG, ADN, IMDG, IATA | |
| · Class | Not regulated |
| · Packing group | |
| · DOT, TDG, IMDG, IATA | Not regulated |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user: | Not applicable. |

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- | | |
|---|---|
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: | Not applicable. |
| · Transport/Additional information: | |
| · DOT | |
| · Quantity limitations | On passenger aircraft/rail: 1 L
On cargo aircraft only: 30 L |
| <hr style="border-top: 1px dashed #000;"/> | |
| · TDG | |
| · Excepted quantities (EQ) | Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml |
| <hr style="border-top: 1px dashed #000;"/> | |
| · IMDG | |
| · Excepted quantities (EQ) | Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml |
| <hr style="border-top: 1px dashed #000;"/> | |
| · UN "Model Regulation": | - |

15 Regulatory information

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

· Section 355 (extremely hazardous substances):
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None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):
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1344-28-1	aluminium oxide	
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1330-20-7	xylene	
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· TSCA (Toxic Substances Control Act):

All ingredients are listed or exempted
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· 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):

4299-07-4	2-n-butyl-benzo[d]isothiazol-3-one	1258-1249
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1330-20-7	xylene	I
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· TLV (Threshold Limit Value established by ACGIH):
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13463-67-7	titanium dioxide	A4
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1344-28-1	aluminium oxide	A4
1314-23-4	zirconium dioxide	A4
115-86-6	triphenyl phosphate	A4
1330-20-7	xylene	A4

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

13463-67-7	titanium dioxide
60676-86-0	Silica, fused

- **Canadian substance listings**

- **Canadian Domestic Substances List (DSL):**

	Nonhazardous material
8001-79-4	Castor oil
13463-67-7	titanium dioxide
1318-02-1	Zeolite powder 3 A
1241-94-7	2-ethylhexyl diphenyl phosphate
57-55-6	Propylene Glycol
1344-28-1	aluminium oxide
1314-23-4	zirconium dioxide
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
16368-97-1	bis(2-ethylhexyl) phenyl phosphate
60676-86-0	Silica, fused
115-86-6	triphenyl phosphate
762-04-9	diethyl phosphonate
3648-18-8	Diocetyl tin Dilaurate
1330-20-7	xylene

- **Canadian Ingredient Disclosure list (limit 0.1%):**

None of the ingredients is listed.

- **Canadian Ingredient Disclosure list (limit 1%):**

8001-79-4	Castor oil
57-55-6	Propylene Glycol

- **GHS label elements**

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

- **Hazard pictograms**



GHS07

- **Signal word** Warning

- **Hazard-determining components of labeling:**

2-n-butyl-benzo[d]isothiazol-3-one

- **Hazard statements**

May cause an allergic skin reaction.

- **Precautionary statements**

Avoid breathing mist/vapours/spray.

Wear protective gloves.

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Contaminated work clothing must not be allowed out of the workplace.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

If on skin: Wash with plenty of water.

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

16 Other information

This MSDS format meets ANSI Z400.1-1998, OSHA 1910.1200 and WHMIS requirements. Kemper System America, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of Kemper System America, Inc. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made. Kemper System America, Inc is an ISO 9001:2008 and ISO 14001:2004 registered company.

• **Department issuing MSDS:** Product safety department

• **Contact:** Stephen Nowicki

• **Date of preparation / last revision** 03/16/2015 / -

• **Abbreviations and acronyms:**

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)

NFPA: National Fire Protection Association (USA)

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

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1 Identification

- **Trade name:** **KEMPEROL® Reflect 2K FR Component B**
- **Article number:** 329-47-025 (B), 329-47-055 (B), 329-47-105 (B)
- **MSDS Number:** 283
- **UPC bar code(s):** 12820 0, 12825 5, 12830 9
- **Relevant identified uses of the substance:** Waterproofing Resin
- **Manufacturer/Supplier:**
Kemper System America Inc.
1200 North America Dr.
West Seneca, NY 14224
USA
- **Information department:**
Tel: (716) 558-2971 ext. 228
www.kempersystem.net
- **Emergency telephone number:**
ChemTrec (800) 424-9300
Canada only: CANUTEC (Call collect) (613) 996-6666



2 Hazard(s) identification

- **Classification of the substance or mixture:**



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

- **Label elements**

- **GHS label elements**

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

- **Signal word:** Danger

- **Hazard-determining components of labeling:**

poly(hexamethylene diisocyanate)

Poly(3-isocyanatomethyl- 3,5,5-trimethylcyclohexylisocyanate)

hexamethylene-di-isocyanate

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

- **Hazard statements:**

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation.

- **Precautionary statements:**

Do not breathe mist/vapours/spray.

In case of inadequate ventilation wear respiratory protection.

Wear protective gloves / eye protection / face protection.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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Trade name: KEMPEROL® Reflect 2K FR Component B

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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).

If experiencing respiratory symptoms: Call a poison center/doctor.

IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

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.

Store in a well-ventilated place. Keep container tightly closed.

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

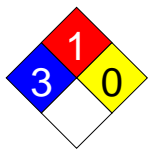
· **WHMIS-symbols:**

D1A - Very toxic material causing immediate and serious toxic effects

D2A - Very toxic material causing other toxic effects



· **NFPA ratings (scale 0 - 4):**



Health = 3

Fire = 1

Reactivity = 0

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

28182-81-2	poly(hexamethylene diisocyanate)	60-100%
53880-05-0	Poly(3-isocyanatomethyl- 3,5,5-trimethylcyclohexylisocyanate)	25-30%
822-06-0	hexamethylene-di-isocyanate	≤1%
4098-71-9	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	≤1%

· **Additional information:** Exact concentrations are being withheld as trade secrets.

4 First-aid measures

· **General information:**

Symptoms of poisoning may even occur after several hours.

Remove breathing apparatus only after contaminated clothing have been completely removed.

· **After inhalation:**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor if you feel unwell or are experiencing respiratory symptoms.

· **After skin contact:**

Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or a rash occurs: Get medical advice/attention.

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- **After eye contact:**
Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.
- **After swallowing:** Rinse mouth, do not induce vomiting, Immediately call a poison center / 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

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear protective clothing.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
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

- **Precautions for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep respiratory protective device available.
- **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.

8 Exposure controls/personal protection

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

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· Components with limit values that require monitoring at the workplace:
822-06-0 hexamethylene-di-isocyanate

 EL Long-term value: 0.005 ppm
 Ceiling limit value: 0.01 ppm
 S

 EV Long-term value: 0.005 ppm
 Ceiling limit value: 0.02 ppm

4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

 EL Long-term value: 0.005 ppm
 Ceiling limit value: 0.01 ppm
 S

 EV Long-term value: 0.005 ppm
 Ceiling limit value: 0.02 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.
- **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.
 - Store protective clothing separately.
 - Avoid contact with the eyes.
 - Avoid contact with the eyes and skin.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves:**
 - Nitrile rubber, NBR
 - Butyl rubber, BR
 - Neoprene gloves
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

- | | |
|---|-----------------|
| · Form: | Liquid |
| · Color: | Transparent |
| · Odor: | Nearly odorless |
| · Odour threshold: | Not determined. |
| · pH-value: | Not determined. |
| · Change in condition
Melting point/Melting range: | Undetermined. |

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Boiling point/Boiling range:	230 °C
· Flash point:	181 °C
· 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. Not applicable.
· Density at 20 °C:	1.15 g/cm ³
· 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 at 20 °C:	3000 mPas
Kinematic:	Not determined. Not applicable.
· Solvent content:	
Organic solvents:	0.0 %
Solids content:	100.0 %
· Other information	VOC: 2 g/L (Component A+B)

10 Stability and reactivity

- **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.

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11 Toxicological information

- **Information on toxicological effects:**
- **Acute toxicity**

- **LD/LC50 values that are relevant for classification:**

822-06-0 hexamethylene-di-isocyanate

Oral	LD50	738 mg/kg (rat)
------	------	-----------------

Dermal	LD50	593 mg/kg (rat)
--------	------	-----------------

- **Specific symptoms in biological assay:** No further relevant information available.
- **Primary irritant effect**
- **on the skin:** No irritant effect.
- **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:
Toxic
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.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **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.

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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- **Uncleaned packagings**

- **Recommendation:**

Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

14 Transport information

- **UN-Number**
- **DOT, TDG, ADN, IMDG, IATA** Not regulated

- **UN proper shipping name**
- **DOT, TDG, ADN, IMDG, IATA** Not regulated

- **Transport hazard class(es)**
- **DOT, TDG, ADN, IMDG, IATA**
- **Class** Not regulated

- **Packing group**
- **DOT, TDG, IMDG, IATA** Not regulated

- **Environmental hazards:**
- **Marine pollutant:** No

- **Special precautions for user:** Not applicable.

- **Transport in bulk according to 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):**

4098-71-9	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
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- **Section 313 (Specific toxic chemical listings):**

822-06-0	hexamethylene-di-isocyanate
4098-71-9	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed or exempted

- **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.

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· 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.

· Canadian substance listings
· Canadian Domestic Substances List (DSL):

All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%):

822-06-0 | hexamethylene-di-isocyanate

4098-71-9 | 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

· Canadian Ingredient Disclosure list (limit 1%):

None of the ingredients is listed.

· GHS label elements

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

· Hazard pictograms


GHS07 GHS08

· Signal word Danger
· Hazard-determining components of labeling:

poly(hexamethylene diisocyanate)

Poly(3-isocyanatomethyl- 3,5,5-trimethylcyclohexylisocyanate)

hexamethylene-di-isocyanate

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

· Hazard statements

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation.

· Precautionary statements

Do not breathe mist/vapours/spray.

In case of inadequate ventilation wear respiratory protection.

Wear protective gloves / eye protection / face protection.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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).

If experiencing respiratory symptoms: Call a poison center/doctor.

IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

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If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
 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.
 Store in a well-ventilated place. Keep container tightly closed.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

16 Other information

This MSDS format meets ANSI Z400.1-1998, OSHA 1910.1200 and WHMIS requirements. Kemper System America, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of Kemper System America, Inc. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made. Kemper System America, Inc is an ISO 9001:2008 and ISO 14001:2004 registered company.

- **Department issuing MSDS:** Product safety department
- **Contact:** Stephen Nowicki
- **Date of preparation / last revision** 03/16/2015 / -

- **Abbreviations and acronyms:**

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)
 NFPA: National Fire Protection Association (USA)
 WHMIS: Workplace Hazardous Materials Information System (Canada)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
 Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

CA