

# SAFETY DATA SHEET

#### FOR INDUSTRIAL USE ONLY

Wonderbond<sup>™</sup> Hrdnr 5025A /TD3158/2.8M#

# Section 1. Product and company identification

GHS product identifier

MSDS Number **Product type** Material uses

Wonderbond<sup>™</sup> Hrdnr 5025A /TD3158/2.8M# 300000019108

Resin hardener

Wood Adhesives, Composites, Laminates or Related Board Products

Manufacturer/Supplier/Impor

Hexion Inc.

180 East Broad Street Columbus, Ohio 43215 USA

Contact person

4information@hexion.com

**Telephone** 

For additional health and safety or regulatory information, call

1 888 443 9466.

Emergency telephone number

For Emergency Medical Assistance

Call Health & Safety Information Services

1-866-303-6949

For Emergency Transportation Information CHEMTREC US Domestic (800) 424-9300 CHEMTREC International (703) 527-3887 CANUTEC CA Domestic (613) 996-6666

### Section 2. Hazards identification

Classification of the substance or mixture

ACUTE TOXICITY:oral - Category 4 ACUTE TOXICITY: inhalation - Category 4 SKIN CORROSION/IRRITATION - Category 1

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

SKIN SENSITIZATION - Category 1

TOXIC TO REPRODUCTION - Category 1B TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [blood system, liver, central nervous system (CNS)] - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) [kidneys, thyroid] - Category 1

**GHS** label elements

Hazard pictograms



Signal word

Hazard statements

: Danger

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H360F May damage fertility.

H360 May damage the unborn child.

H370 Causes damage to organs: (blood system, liver, central nervous

system (CNS))

H372 Causes damage to organs through prolonged or repeated

exposure: (kidneys, thyroid)

#### **Precautionary statements**

General

Not applicable.

Prevention

: Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood.

Use personal protective equipment as required.

Wear protective gloves. Wear eye or face protection. Wear protective clothing.

Use only outdoors or in a well-ventilated area.

Do not breathe vapor.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Contaminated work clothing should not be allowed out of the

workplace.

Response

: Get medical attention if you feel unwell.

IF exposed:

Call a POISON CENTER or physician.

IF INHALED:

Remove victim to fresh air and keep at rest in a position comfortable

for breathing.

Immediately call a POISON CENTER or physician.

IF SWALLOWED:

Immediately call a POISON CENTER or physician.

Rinse mouth.

Do NOT induce vomiting.

IF ON SKIN (or hair):

Take off immediately all contaminated clothing.

Rinse skin with water or shower.

Wash contaminated clothing before reuse.

Immediately call a POISON CENTER or physician.

IF ON SKIN:

Wash with plenty of soap and water.

If skin irritation or rash occurs:

Get medical attention.

IF IN EYES:

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or physician.

Storage

: Store locked up.

Disposal

Dispose of contents and container in accordance with all local,

regional, national and international regulations.

Other hazards which do not result

None known.

in classification

## Section 3. Composition/information on ingredients

Substance/mixture

Mixture

Ingredient name	% by weight	CAS
		number
Kaolinite (H4Al2Si2O9)	25 - 35	1318-74-7
Formic Acid	20 - 25	64-18-6
Resorcinol	15 - 20	108-46-3
Methanol	0.1 - 0.2	67-56-1

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

Get medical attention immediately. Call a poison center or physician. 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 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

Get medical attention immediately. Call a poison center or physician.

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Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** 

: No specific treatment.

Protection of first aid personnel

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 Unsuitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

None known.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

In a fire or if heated, a pressure increase will occur and the container may burst.

Decomposition products may include the following materials: carbon oxides

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and selfcontained 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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is

For emergency responders

inadequate. Put on appropriate personal protective equipment.

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See

also the information in "For non-emergency 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).

#### Methods and material for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large 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 noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13 of SDS). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

## Section 7. Handling and storage

#### Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see section 8 of SDS). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. 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. Remove contaminated clothing and protective equipment before entering eating areas. 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 of SDS) and food and drink. Store locked up. Separate from alkalis. 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

Ingredient name	Exposure limits
Kaolinite (H4Al2Si2O9)	ACGIH TLV () Particles (Insoluble or Poorly Soluble) Not Otherwise Specified Time Weighted Average (TWA) 10 mg/m3 Form: inhalable particulate OSHA - PEL Z3 () Time Weighted Average (TWA) 5 mg/m3 Form: respirable particulate Time Weighted Average (TWA) 15 mg/m3 Form: total dust
Formic Acid	NIOSH REL (1994-06-01) Time Weighted Average (TWA) 9 mg/m3 5 ppm OSHA PEL (1993-06-30) Time Weighted Average (TWA) 9 mg/m3 5 ppm ACGIH TLV (1994-09-01) Time Weighted Average (TWA) 9.4 mg/m3 5 ppm Short Term Exposure Limit (STEL) 19 mg/m3 10 ppm
Resorcinol	NIOSH REL (1994-06-01) Time Weighted Average (TWA) 45 mg/m3 10 ppm Pollutant concentration that should not be exceeded during working hours and which workers are believed to be exposed during a period of 15 minutes maximum, without experiencing: a) irritation. b) chronic or irreversible tissue damage. c) dependent toxic effects of exposure rate. d) Narcosis of sufficient magnitude to increase susceptibility to accidents. e) The reduction of ability to get to safety by their own means. 90 mg/m3 20 ppm ACGIH TLV (1996-05-18) Time Weighted Average (TWA) 45 mg/m3 10 ppm Short Term Exposure Limit (STEL) 90 mg/m3 20 ppm
Methanol	ACGIH TLV (1994-09-01) Time Weighted Average (TWA) 262 mg/m3 200 ppm Short Term Exposure Limit (STEL) 328 mg/m3 250 ppm OSHA PEL (1993-06-30) Time Weighted Average (TWA) 260 mg/m3 200 ppm NIOSH REL (1994-06-01) Time Weighted Average (TWA) 260 mg/m3 200 ppm Pollutant concentration that should not be exceeded during working hours and which workers are believed to be exposed during a period of 15 minutes maximum, without experiencing: a) irritation. b) chronic or irreversible tissue damage. c) dependent toxic effects of exposure rate. d) Narcosis of sufficient magnitude to increase susceptibility to accidents. e) The reduction of ability to get to safety by their own means. 325 mg/m3 250 ppm

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures  Eye/face protection	:	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.  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 and/or face shield. If inhalation hazards exist, a full-face respirator may be
		required instead.
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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves
<b>Body protection</b>	:	cannot be accurately estimated.  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 air-fed 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

Slurry

Color

Tan.

Odor

Acetic

Odor threshold

Not available

pН

1.0

Melting point/ Freezing point

-0 °C (32.00 °F)

**Boiling point** 

95 °C (203.00 °F)

Flash point

100 °C (212.00 °F)

**Burning time Burning** rate **Evaporation rate**  Not available Not available Not available

Flammability (solid, gas)

Not available

Lower and upper explosive

Lower: Not available

(flammable) limits

Upper: Not available

Vapor pressure

Not available

Vapor density

Not available

Relative density

1.100 - 1.300

Solubility

Not available

Solubility in water

Soluble

Partition coefficient: n-

Not available

octanol/water

Auto-ignition temperature

Not applicable.

**Decomposition temperature** 

Not available

**SADT** 

Not available

Viscosity

Dynamic: 2,500 - 5,000 cPs (Brookfield)

Kinematic: Not available

#### Other information

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The SDS is not to be used as a specification sheet. For Specific technical information on the product listed above, a sales specification sheet should be obtained from your Hexion representative.

### Section 10. Stability and reactivity

Reactivity

Stable under normal conditions.

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

Strong oxidizer,

**Incompatible materials** 

Attacks many metals producing extremely flammable hydrogen gas

which can form explosive mixtures with air.

Reactive or incompatible with the following materials:

alkalis,

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
Formic Acid			<u> </u>	•
	LC50 Inhalation	Rat	15 mg/l	0.25 h
Resorcinol				
	LD50 Oral	Rat	301 mg/kg	-
	LD50 Oral	Rat	202 mg/kg	-
	LD50 Dermal	Rabbit	3,360 mg/kg	-
Methanol				
	LD50 Oral	Rat	5,628 mg/kg	-

Conclusion/Summary

Not available

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Resorcinol	Skin -	Rabbit		24 hrs	-
	Moderate				
	irritant				
	Skin -	Rabbit			-
	Severe				
	irritant				
	eyes -	Rabbit			-
	Severe				
	irritant				

#### Conclusion/Summary

Skin

Not available

eyes

Not available

Respiratory

Not available

**Sensitization** 

Conclusion/Summary

Not available

Respiratory

Not available

**Mutagenicity** 

Conclusion/Summary

Not available

**Carcinogenicity** 

Conclusion/Summary

Not available

**Reproductive toxicity** 

Conclusion/Summary

Not available

**Teratogenicity** 

Conclusion/Summary

Not available

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Kaolinite (H4Al2Si2O9)	Category 3		Respiratory tract irritation
Formic Acid	Category 1		blood system liver
Resorcinol	Category 3 Category 1		Respiratory tract irritation central nervous system (CNS) blood system
Methanol	Category 3 Category 1 Category 2		Respiratory tract irritation central nervous system (CNS) optic nerve

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Formic Acid	Category 1		kidneys
Resorcinol	Category 2 Category 1 Category 2		cardiovascular system thyroid Spleen liver kidneys
Methanol	Category 2		kidneys

	liver gastrointestinal tract skin respiratory tract	
--	--	--

#### **Aspiration hazard**

Not available

Information on the likely routes of

Not available

exposure

#### Potential acute health effects

Eye contact

Causes serious eye damage.

Inhalation

Harmful if inhaled. May give off gas, vapor or dust that is very

irritating or corrosive to the respiratory system.

Skin contact

Causes severe burns. May cause an allergic skin reaction.

Ingestion

Harmful if swallowed. May cause burns to mouth, throat and stomach.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

Adverse symptoms may include the following:

pain watering redness

Inhalation

Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact

Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion

Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate effects Potential delayed effects

Not available

Not available

#### Long term exposure

Potential immediate effects

Not available

Potential delayed effects

Not available

#### Potential chronic health effects

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Conclusion/Summary

Not available

General

Causes damage to organs through prolonged or repeated exposure:

Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

Carcinogenicity

No known significant effects or critical hazards. No known significant effects or critical hazards.

Mutagenicity Teratogenicity

May damage the unborn child.

**Developmental effects** 

No known significant effects or critical hazards.

Fertility effects

May damage fertility.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral	1,258.7 mg/kg
Route	ATE value
Dermal	19,802.3 mg/kg
Route	ATE value
Inhalation (vapors)	13.18 mg/l

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
kaolinite			
	Acute LC50 1,125,000 μg/l Fresh	Aquatic invertebrates.	48 h
	water	Water flea	
resorcinol			
	Acute LC50 > 100 mg/l Fresh water	Fish - Rainbow	96 h
		trout,donaldson trout	
	Acute LC50 40,000 μg/l Fresh water	Fish - Fathead minnow	96 h
	Acute LC50 100,000 μg/l Fresh water	Aquatic invertebrates.	48 h
		Water flea	
methanol			
	Acute EC50 13,000 mg/l Fresh water	Fish - Rainbow	4 d
		trout,donaldson trout	

Conclusion/Summary

Not available

Persistence/degradability

Conclusion/Summary

Not available

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Formic Acid	-0.54	-	low

Resorcinol	0.8	-	low
Methanol	-0.77	-	low

#### Mobility in soil

Soil/water partition coefficient

(KOC)

Other adverse effects

: Not available

: 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 at all times 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 emptied containers that have not been cleaned or rinsed 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**

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

#### **International transport regulations**

Regulatory information	UN/NA number	Proper shipping name	Classes/*PG	Reportable Quantity (RQ)
CFR	3412	FORMIC ACID	Class 8 II	Resorcinol, Formic Acid
IMO/IMDG	3412	FORMIC ACID	Class 8 II	Formic Acid, Resorcinol
IATA (Cargo)	3412	FORMIC ACID	Class 8 II	Formic Acid, Resorcinol

\*PG: Packing group

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.'

## Section 15. Regulatory information

#### **United States**

U.S. Federal regulations

United States - TSCA 12(b) - Chemical export notification: None

required.

United States - TSCA 5(a)2 - Final significant new use rules: Not listed United States - TSCA 5(a)2 - Proposed significant new use rules: Not

listed

United States - TSCA 5(e) - Substances consent order: Not listed

#### **SARA 313**

		Product name	CAS number
Form R - Reporting	:	Formic acid	64-18-6
requirements			
Supplier notification	:	Formic acid	64-18-6

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

California Prop. 65:

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Methanol	No.	Yes.	No.	No.

United States inventory (TSCA:

All components are listed or exempted.

8b)

#### Canada

WHMIS (Canada)

Class D-1A: Material causing immediate and serious toxic effects (Very

toxic).

Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

Class E: Corrosive material

#### **Canadian lists**

**Canadian NPRI** 

The following components are listed: Formic acid

**CEPA Toxic substances** 

: None required.

#### **International regulations**

International lists

Australia inventory (AICS): All components are listed or exempted.

Canada inventory: At least one component is not listed in DSL but all such

components are listed in NDSL. **Japan inventory:** Not determined.

China inventory (IECSC): Not determined.

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**Korea inventory:** All components are listed or exempted. New Zealand Inventory (NZIoC): Not determined. Philippines inventory (PICCS): Not determined.

United States inventory (TSCA 8b): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

### Section 16. Other information

Hazardous Material Information System III (II S A ) .

mazaruous materiai iii	iormation system iii	(U.S.A.):
Health	*	3
		1
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

Full text of abbreviated H

statements

Not applicable.

#### **History**

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3.0

Product Safety Stewardship

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = 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) RID = The Regulations concerning the International Carriage of Dangerous Goods by

Rail

UN = United Nations

References

Not available

#### Notice to reader

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