

# SAFETY DATA SHEET

### FOR INDUSTRIAL USE ONLY

Cascomel<sup>TM</sup> 4720 /TD3158/2.5M#

# Section 1. Product and company identification

GHS product identifier

Cascomel<sup>™</sup> 4720 /TD3158/2.5M#

**MSDS** Number

300000019104

Product type

Methylated Melamine Resin Systems

Material uses

Wood Adhesives, Composites, Laminates or Related Board Products

Manufacturer/Supplier/Impor

Hexion Inc.

ter

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

Part of the CASCO® Brand of Adhesives and Resins from Hexion Inc.

# Section 2. Hazards identification

Classification of the substance or mixture

FLAMMABLE LIQUIDS - Category 4

RESPIRATORY SENSITIZATION - Category 1

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION - Category 1B

TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

[central nervous system (CNS)] - Category 1

SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) [lungs] - Category 1

GHS label elements

Hazard pictograms

Signal word

Hazard statements

Danger

H227 Combustible liquid.

H334 May cause allergy or asthma symptoms or breathing difficulties

if inhaled.

H317 May cause an allergic skin reaction.

H350 May cause cancer. H360F May damage fertility. H360 May damage the unborn child.

H370 Causes damage to organs: (central nervous system (CNS)) H372 Causes damage to organs through prolonged or repeated

exposure: (lungs)

#### 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.

In case of inadequate ventilation wear respiratory protection. Keep away from flames and hot surfaces. - No smoking.

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:

If breathing is difficult, remove victim to fresh air and keep at rest in a

position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician.

IF ON SKIN:

Wash with plenty of soap and water. Wash contaminated clothing before reuse.

If skin irritation or rash occurs:

Get medical attention.

Storage

Store locked up.

Store in a well-ventilated place.

Keep cool.

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
Cellulose	5 - 7	9004-34-6
Methanol	3 - 5	67-56-1
1,4-Butanediol	2 - 3	110-63-4
Caprolactam	1 - 2	105-60-2
Formaldehyde	0.2 - 1	50-00-0

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 10 minutes. Get medical attention. If necessary, call a poison center or physician.

Inhalation

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. Get medical attention. If necessary, call a poison center or physician. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms. avoid further exposure.

Skin contact

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. Get medical attention. If necessary, call a poison center or physician. 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. 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. Get medical attention. If necessary, call a poison center or 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

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments

Protection of first aid personnel

: No specific treatment.

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 dry chemical, CO2, water spray (fog) or foam.

Do not use water jet.

Specific hazards arising from the chemical

Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products

Decomposition products may include the following materials: carbon dioxide carbon monoxide

nitrogen oxides sulfur 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing 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. Use spark-proof tools and explosion-proof equipment. 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 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 of SDS). Use spark-proof tools and explosion-proof equipment. 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 or asthma. allergies or chronic or recurrent respiratory disease 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. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Follow US NFPA 30, "Flammable & Combustible Liquids Code," or other national, state

and local codes on safe handling of flammable liquids. Train workers in the recognition and prevention of hazards associated with the storage, handling and transfer of flammable liquids in the plant. Store in an area designated for storage of flammable liquids (See NPFA 30, and OSHA 29 CFR 1910.106)

# 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 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. Eliminate all ignition sources. Separate from oxidizing materials. 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
Cellulose	ACGIH TLV (1994-09-01) Time Weighted Average (TWA) 10 mg/m3 NIOSH REL (1994-06-01) Time Weighted Average (TWA) 10 mg/m3 Form: Total Time Weighted Average (TWA) 5 mg/m3 Form: respirable fraction OSHA PEL (1993-06-30) Time Weighted Average (TWA) 15 mg/m3 Form: total dust Time Weighted Average (TWA) 5 mg/m3 Form: respirable fraction
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

Caprolactam	ACGIH TLV (2003-01-01)  Time Weighted Average (TWA) 5 mg/m3 Form: vapor and aerosols NIOSH REL (1994-06-01)  Time Weighted Average (TWA) 1 mg/m3 Form: dust 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. 3 mg/m3 Form: dust Time Weighted Average (TWA) 1 mg/m3 0.22 ppmForm: vapor 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. 3 mg/m3 0.66 ppmForm: vapor
Formaldehyde	ACGIH TLV (2000-03-01) Ceiling 0.37 mg/m3 0.3 ppm OSHA PEL (1993-06-30) Time Weighted Average (TWA) 0.75 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. 2 ppm NIOSH REL (1994-06-01) Time Weighted Average (TWA) 0.016 ppm Ceiling 0.1 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

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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# **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

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: safety glasses with side-shields.

## 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 cannot be accurately estimated.

**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 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

Liquid

Color

White to gray/grey

Odor

Slight amine

Odor threshold

Not available

9.2 - 9.6 @ 25 °C (77.00 °F)

Melting point/ Freezing point

0 °C (32.00 °F)

Boiling point

100 °C (212.00 °F)

Flash point

61 °C (141.80 °F)

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Burning time Burning rate Evaporation rate

Not available Not available Negligible

Flammability (solid, gas) Lower and upper explosive

Not available

(flammable) limits

Lower: Not available Upper: Not available

Vapor pressure

Not available

Vapor density

Not available

Relative density

1.1 - 1.35

Solubility

Not available

Solubility in water

Complete

Partition coefficient: n-

Not available

octanol/water

Auto-ignition temperature

Not available

Decomposition temperature

Not available

SADT

Not available

Viscosity

Dynamic: 2,000 - 6,000 cPs @ 25 °C (77.00 °F) (Brookfield)

Kinematic: Not available

#### Other information

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

Normally stable, but will polymerize at high temperatures with some evolution of heat.

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

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to

heat or sources of ignition.

Incompatible materials

Reactive or incompatible with the following materials:

oxidizing materials

acids

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

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# Section 11. Toxicological information

# Information on toxicological effects

# Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Cellulose			12030	Exposure
	LD50 Oral	Rat	5,000 mg/kg	-
Methanol				
	LD50 Oral	Rat	5,628 mg/kg	*
1,4-Butanediol		***************************************		
	LD50 Oral	Rat	1,525 mg/kg	_
Caprolactam				
	LD50 Oral	Rat	2,140 mg/kg	-
	LC50 Inhalation	Rat	8.16 mg/l	4 h
	LD50 Dermal	Rat	> 2,000 mg/kg	
	LD50 Dermal	Rabbit	1,410 mg/kg	-
Formaldehyde				· · · · · · · · · · · · · · · · · · ·
	LD50 Oral	Rat	800 mg/kg	
	LC50 Inhalation	Rat	0.578 mg/l	2 h
	LD50 Dermal	Rabbit	270 mg/kg	-

Conclusion/Summary

Not available

# Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Formaldehyde	Skin - Erythema/E schar	Rabbit	2.5	20 hrs	-
	Skin - Edema	Rabbit	3	20 hrs	-
	eyes - Cornea opacity	Mouse	> 3		

Conclusion/Summary

Skin

Not available

eyes Respiratory

Not available Not available

Sensitization

Conclusion/Summary

Skin

Not available

Respiratory

Not available

Mutagenicity

Conclusion/Summary

Not available

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure

Formaldehyde		-		
Remarks:	The National Toxicology Program (NTP) classifies formaldehyde as "known to be a human carcinogen" with respect to nasopharyngeal cancer, sinonasal cancer and myeloid leukemia. The International Agency for Research on Cancer (IARC) classifies formaldehyde as "carcinogenic to humans". U.S. OSHA regulates formaldehyde as a potential human carcinogen. See the OSHA Formaldehyde Workplace Standard at 29 CFR 1920.1048 (the "OSHA Standard"). Safe handling and use instructions are provided in this SDS and in the OSHA Standard. OSHA has identified 0.5 ppm, calculated as an eighthour time-weighted average ("TWA") concentration, as the "Action Level". Please review and understand the guidance contained in this MSDS, and refer to the OSHA Standard for regulatory requirements that might be applicable to your operation and use. Many studies and other evaluations have been performed concerning formaldehyde's potential to cause cancer. To review some of these studies and for further information go to www.osha.gov/SLTC/formaldehyde; http://monographs.iarc.fr; http://ntp-			
	server.niehs.nih.g	gov; http://epa.go	v/iris/subst/0419.h	tm; and other authoritative

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
Cellulose	Category 3		Respiratory tract irritation
Methanol	Category 3 Category 1 Category 2		Respiratory tract irritation central nervous system (CNS) optic nerve
1,4-Butanediol	Category 3		Narcotic effects
Caprolactam	Category 3		Respiratory tract irritation
Formaldehyde	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Cellulose	Category I		lungs
Methanol	Category 2		kidneys liver
			gastrointestinal tract

	9	respiratory tract
Caprolactam	Category 2	liver kidneys
Formaldehyde	Category 2	respiratory tract skin

#### Aspiration hazard

Not available

Information on the likely routes of

Not available

exposure

### Potential acute health effects

Eye contact

No known significant effects or critical hazards.

Inhalation

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact Ingestion

May cause an allergic skin reaction.

No known significant effects or critical hazards.

# Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

No specific data.

Inhalation

Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact

Adverse symptoms may include the following:

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion

Adverse symptoms may include the following:

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

Not available Not available

Potential delayed effects

Long term exposure

Potential immediate effects Potential delayed effects

Not available Not available

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## Potential chronic health effects

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

May cause cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity

No known significant effects or critical hazards.

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	2,211.4 mg/kg	
Route	ATE value	
Dermal	7,518.9 mg/kg	

# Section 12. Ecological information

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
methanol		1 31333	Exposure
	Acute EC50 13,000 mg/l Fresh water	Fish - Rainbow trout,donaldson trout	4 d
formaldehyde		i ouguonarason nout	
3400000	Acute LC50 6.7 mg/l -	Fish - Striped bass	96 h
	Acute LC50 6.9 mg/l -	Fish - Zebra danio	6 d
	Acute NOEC > 47.9 mg/l -	Fish - Medaka, high- eyes	28 d
	Acute EC50 5.8 mg/l Fresh water	Aquatic invertebrates. Water flea	2 d
***	Acute EC50 4.9 mg/l Fresh water	Aquatic plants - Algae	72 h
	Acute EC50 4.3 mg/l Fresh water	Aquatic plants - Algae	48 h
	Acute EC50 19 mg/l -	Micro-organism - Soil organisms	3 h

Conclusion/Summary

Not available

Persistence/degradability

Conclusion/Summary

Not available

# Bioaccumulative potential

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Product/ingredient name	LogPow	BCF	Potential
Methanol	-0.77		
Formaldehyde	0.35	<1	low

### Mobility in soil

Soil/water partition coefficient

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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. 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 UN/NA Proper shipping name Classes/\*PG Reportable information number Quantity (RQ) **CFR** 1993 COMBUSTIBLE LIQUID. Class CBL III Formaldehyde N.O.S.

(Methanol, 1,4-Butanediol)

**TDG** Non-regulated

**IMO/IMDG** Non-regulated

IATA (Cargo) Non-regulated

\*PG: Packing group

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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 requirements	:	Methanol	67-56-1
	:	Formaldehyde	50-00-0
Supplier notification	:	Methanol	67-56-1
	:	Formaldehyde	50-00-0

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 a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage
Methanol	No.	Yes.	No.	No.
Formaldehyde	Yes.	No.	40 μg/day	No.

United States inventory (TSCA: 8b)

All components are listed or exempted.

#### <u>Canada</u>

WHMIS (Canada)

Class B-3: Combustible liquid with a flash point between 37.8°C (100°F)

and 93.3°C (200°F).

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).

#### Canadian lists

Canadian NPRI

The following components are listed: Methanol

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12/04/2014

CEPA Toxic substances

The following components are listed: Formaldehyde

#### International regulations

International lists

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

Canada inventory: All components are listed or exempted. Japan inventory: All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

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

Philippines inventory (PICCS): All components are listed or exempted. 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 (U.S.A.):

	0.50 xi) 1
Health *	2
Millionidates (Marchaelle)	2
Physical hazards	0

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Full text of abbreviated H

statements

Not applicable.

## **History**

Date of printing

Date of issue/Date of revision

Date of previous issue

Version

Prepared by Key to abbreviations 06/19/2015

04/16/2015 12/04/2014

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

UN = United Nations

References Not available

### Notice to reader

Cascomel(TM) 4720

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