## Sarnacol® OM Board Adhesive WG Part A



Version **Revision Date:** SDS Number: 1.1 01/09/2017 100000010469

#### **SECTION 1. IDENTIFICATION**

Product name : Sarnacol® OM Board Adhesive WG Part A

Manufacturer or supplier's details

Sika Canada Inc. Company name

601, avenue Delmar

Pointe-Claire, QC H9R 4A9

Canada www.sika.ca

Telephone : (514) 697-2610 / 1 (800) 933-7452

Telefax : (514) 694-2792

Health and Safety Services's : ehs@ca.sika.com

e-mail address

Emergency telephone : CANUTEC (collect) (613) 996-6666 (24 hours)

### Recommended use of the chemical and restrictions on use

For further information, refer to product data sheet.

### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2B

Respiratory sensitization : Category 1

Skin sensitization : Category 1

Specific target organ system-

ic toxicity - single exposure

: Category 3 (Respiratory system)

Specific target organ system-

ic toxicity - repeated expo-

sure (Inhalation)

: Category 2

### **GHS** label elements

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Hazard pictograms





Signal Word : Danger

Hazard Statements : H315 + H320 Causes skin and eye irritation.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing diffi-

culties if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or re-

peated exposure if inhaled.

Precautionary Statements : Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves.

P284 In case of inadequate ventilation wear respiratory protec-

tion.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

DOOD DOOD If alsia invite

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

tion.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER/doctor.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

**Supplemental information** 

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If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

### **Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
Diphenylmethanediisocyanate, isomeres and	9016-87-9	>= 30 - < 40
homologues		
4,4'-methylenediphenyl diisocyanate	101-68-8	>= 30 - < 40
methylenediphenyl diisocyanate	26447-40-5	>= 2 - < 5

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

: irritant effects sensitizing effects Asthmatic appearance

Cough

Respiratory disorder Allergic reactions Headache

See Section 11 for more detailed information on health effects

and symptoms.

Causes skin and eye irritation. May cause an allergic skin reaction.

Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

May cause respiratory irritation.

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May cause damage to organs through prolonged or repeated

exposure if inhaled.

Notes to physician : Treat symptomatically.

### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

: Collect contaminated fire extinguishing water separately. This Further information

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

for fire-fighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

tive equipment and emer-

gency procedures

Personal precautions, protec- : Use personal protective equipment. Deny access to unprotected persons.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for

containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Advice on safe handling : Avoid formation of aerosol.

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms.

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Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage : Store in original container.

Keep in a well-ventilated place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Store in accordance with local regulations.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	TWA	0.005 ppm 0.07 mg/m3	CA AB OEL
		TWA	0.005 ppm	CA BC OEL
		С	0.01 ppm	CA BC OEL
4,4'-methylenediphenyl diiso- cyanate	101-68-8	TWA	0.005 ppm 0.05 mg/m3	CA AB OEL
		TWA	0.005 ppm	CA BC OEL
		С	0.01 ppm	CA BC OEL
		TWAEV	0.005 ppm 0.051 mg/m3	CA QC OEL
		TWA	0.005 ppm	CA ON OEL
		С	0.02 ppm	CA ON OEL
		TWA	0.005 ppm	ACGIH
methylenediphenyl diisocya- nate	26447-40-5	TWA	0.005 ppm	CA ON OEL
		С	0.02 ppm	CA ON OEL
		TWA	0.005 ppm	CA BC OEL
		С	0.01 ppm	CA BC OEL

### **Engineering measures**

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

### Personal protective equipment

Respiratory protection

: Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration

(gas/vapor/aerosol/particulates) that may arise when han-

dling the product. If this concentration is exceeded, self-

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contained breathing apparatus must be used.

Hand protection

Remarks : 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 nec-

essary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling

the product.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : brown

Odor : aromatic

Odor Threshold : No data available

pH : Not applicable

Melting point/range / Freezing

point

: No data available

Boiling point/boiling range : 93 °C (199 °F)

Flash point : ca. 220 °C (428 °F)

Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : 0.01 hpa (0.01 mmHg)

Relative vapor density : No data available

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Density : ca. 1.2 g/cm3 (20 °C (68 °F) ())

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 20.5 mm2/s (40 °C)

Explosive properties : No data available

Molecular weight : No data available

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous reac-

tions

: Stable under recommended storage conditions.

Conditions to avoid : No data available

Incompatible materials : No data available

No decomposition if stored and applied as directed.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

Harmful if inhaled.

**Product:** 

Acute inhalation toxicity : Acute toxicity estimate: 2.03 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

## **Ingredients:**

**Diphenylmethanediisocyanate, isomeres and homologues:**Acute oral toxicity : LD50 Oral (Rat): > 10,000 mg/kg

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Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Expert judgment

Acute dermal toxicity : LD50 Dermal (Rabbit): > 9,400 mg/kg

4,4'-methylenediphenyl diisocyanate:

Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l

Test atmosphere: dust/mist Method: Expert judgment

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes eye irritation.

Respiratory or skin sensitization

Skin sensitization: May cause an allergic skin reaction.

Respiratory sensitization: May cause allergy or asthma symptoms or breathing difficulties if in-

haled.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC Not applicable

NTP Not applicable

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled.

**Aspiration toxicity** 

Not classified based on available information.

### **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

No data available

Persistence and degradability

No data available

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Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

**Product:** 

Additional ecological infor-

mation

: Do not empty into drains; dispose of this material and its con-

tainer in a safe way.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : 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.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

### **SECTION 14. TRANSPORT INFORMATION**

**Domestic regulation** 

TDG (road/train)

Not dangerous goods

**International Regulations** 

IATA-DGR

Not dangerous goods

**IMDG-Code** 

Not dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## **SECTION 15. REGULATORY INFORMATION**

**Canadian lists** 

No substances are subject to a Significant New Activity Notification.

#### **SECTION 16. OTHER INFORMATION**

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Prepared by : R & D of Sika Canada Inc.

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### Full text of other abbreviations

ADR Accord européen relatif au transport international des marchandises

Dangereuses par Route

CAS Chemical Abstracts Service
DNEL Derived no-effect level

EC50 Half maximal effective concentration GHS Globally Harmonized System

IATA International Air Transport Association

IMDG International Maritime Code for Dangerous Goods

LD50 Median lethal dosis (the amount of a material, given all at once, which

causes the death of 50% (one half) of a group of test animals)

Median lethal concentration (concentrations of the chemical in air that

kills 50% of the test animals during the observation period)

MARPOL International Convention for the Prevention of Pollution from Ships, 1973

as modified by the Protocol of 1978

OEL Occupational Exposure Limit

PBT Persistent, bioaccumulative and toxic
PNEC Predicted no effect concentration

REACH Regulation (EC) No 1907/2006 of the European Parliament and of the

Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a

**European Chemicals Agency** 

SVHC Substances of Very High Concern

vPvB Very persistent and very bioaccumulative

CA / Z8

LC50

## Sarnacol® OM Board Adhesive WG Part B



Version **Revision Date:** SDS Number: 1.1 01/19/2017 100000010575

#### **SECTION 1. IDENTIFICATION**

Product name : Sarnacol® OM Board Adhesive WG Part B

Manufacturer or supplier's details

Sika Canada Inc. Company name

601, avenue Delmar

Pointe-Claire, QC H9R 4A9

Canada www.sika.ca

Telephone : (514) 697-2610 / 1 (800) 933-7452

Telefax : (514) 694-2792

Health and Safety Services's : ehs@ca.sika.com

e-mail address

Emergency telephone : CANUTEC (collect) (613) 996-6666 (24 hours)

#### Recommended use of the chemical and restrictions on use

For further information, refer to product data sheet.

### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Specific target organ systemic toxicity - repeated expo-

sure

: Category 2

**GHS** label elements

Hazard pictograms



Signal Word : Warning

Hazard Statements : H373 May cause damage to organs through prolonged or re-

peated exposure.

**Precautionary Statements** : Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

Response:

P314 Get medical advice/ attention if you feel unwell.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

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posal plant.

#### Other hazards

None known.

## Supplemental information

If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### **Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
diethylene glycol	111-46-6	>= 10 - < 20
4,4'-methylenebis[N-sec-butylaniline]	5285-60-9	>= 5 - < 10

### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice. Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

: No known significant effects or hazards.

See Section 11 for more detailed information on health effects

and symptoms.

May cause damage to organs through prolonged or repeated

exposure.

Notes to physician : Treat symptomatically.

### **SECTION 5. FIRE-FIGHTING MEASURES**

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Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

tive equipment and emer-

gency procedures

Personal precautions, protec: Use personal protective equipment. Deny access to unprotected persons.

**Environmental precautions** : Try to prevent the material from entering drains or water

courses.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see

section 8).

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Store in accordance with local regulations.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Use of adequate ventilation should be sufficient to control

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worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

### Personal protective equipment

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed

respirator complying with an approved standard if a risk as-

sessment indicates this is necessary.

The filter class for the respirator must be suitable for the max-

imum expected contaminant concentration

(gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-

contained breathing apparatus must be used.

Hand protection

Remarks : 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 nec-

essary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Hygiene measures : Wash hands before breaks and immediately after handling

the product.

Remove contaminated clothing and protective equipment

before entering eating areas.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : viscous liquid

Color : red

Odor : mild, sweet

Odor Threshold : No data available

pH : not determined

Melting point/range / Freezing

point

: No data available

Boiling point/boiling range : No data available

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Flash point : ca. 191 °C (376 °F)

Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : 0.01 hpa (0.01 mmHg)

Relative vapor density : No data available

Density : ca. 1.02 g/cm3 (20 °C (68 °F) ())

Solubility(ies)

Water solubility : partly miscible

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 20.5 mm2/s (40 °C)

Explosive properties : No data available

Molecular weight : No data available

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous reac-

tions

: Stable under recommended storage conditions.

Conditions to avoid : No data available

Incompatible materials : No data available

No decomposition if stored and applied as directed.

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#### **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: 2,713 mg/kg

Method: Calculation method

**Ingredients:** 

4,4'-methylenebis[N-sec-butylaniline]:

Acute oral toxicity : LD50 Oral (Rat): 1,400 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC Not applicable

NTP Not applicable

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**Aspiration toxicity** 

Not classified based on available information.

#### **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

No data available

Persistence and degradability

No data available

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Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

**Product:** 

Additional ecological infor-

mation

: Do not empty into drains; dispose of this material and its con-

tainer in a safe way.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : 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.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

### **SECTION 14. TRANSPORT INFORMATION**

**Domestic regulation** 

TDG (road/train)

Not dangerous goods

**International Regulations** 

IATA-DGR

Not dangerous goods

**IMDG-Code** 

Not dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## **SECTION 15. REGULATORY INFORMATION**

**Canadian lists** 

No substances are subject to a Significant New Activity Notification.

#### **SECTION 16. OTHER INFORMATION**

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### Full text of other abbreviations

ADR Accord européen relatif au transport international des marchandises

Dangereuses par Route

CAS Chemical Abstracts Service
DNEL Derived no-effect level

EC50 Half maximal effective concentration GHS Globally Harmonized System

IATA International Air Transport Association

IMDG International Maritime Code for Dangerous Goods

LD50 Median lethal dosis (the amount of a material, given all at once, which

causes the death of 50% (one half) of a group of test animals)

Median lethal concentration (concentrations of the chemical in air that

kills 50% of the test animals during the observation period)

MARPOL International Convention for the Prevention of Pollution from Ships, 1973

as modified by the Protocol of 1978

OEL Occupational Exposure Limit

PBT Persistent, bioaccumulative and toxic
PNEC Predicted no effect concentration

REACH Regulation (EC) No 1907/2006 of the European Parliament and of the

Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a

European Chemicals Agency

SVHC Substances of Very High Concern

vPvB Very persistent and very bioaccumulative

CA / Z8

LC50