



SECTION I: PRODUCT INFORMATION

PRODUCT: **Sikafloor® N PurCem® PART A** REVISION DATE: March 13, 2013

USAGE: URETHANE COATING

MANUFACTURER/SUPPLIER: SIKA CANADA INC.
601, avenue Delmar
Pointe Claire, QC
H9R 4A9

EMERGENCY TELEPHONE NUMBER: CANUTEC (collect) (613) 996-6666

TDG CLASSIFICATION: Not applicable WHMIS Classification: D2B
UN NUMBER: Not applicable Class: Not applicable
Packaging Group: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Hazardous ingredients	%	T.L.V.	# CAS	LD ₅₀ (mg/kg) (species, route)	LC ₅₀ (species, route)
Benzyl-Butyl Phthalate	10-30	Not available	85-68-7	Rat 20400 Rabbit >10000	6.7 Fish 1.1 (96hrs) Daphnia 1.7 (48 hrs)

SECTION III: PHYSICAL CHARACTERISTICS

Physical State:	Liquid	Boiling Point:	Not Established
Appearance and Odor:	Un-pigmented system – cloudy amber: pigmented systems – various colors; slight oil smell	Freezing Point:	Not Available
		Density:	Not Available
		Water Solubility:	Soluble
Odor Threshold:	Not Established	pH:	Not Available
Evaporation Rate:	Not Established	% volatility by (%):	15-35%
Vapor Density:	Not Established	Water/Oil Distribution:	Not Available
Vapor Pressure:	Not Established	Specific Gravity:	1.1 - 1.25 (according to the color)



PRODUCT: **Sikafloor® N PurCem®** PART A

SECTION IV: FIRE AND EXPLOSION HAZARDS

Flammability:	No	TDG Flammability Class:	Not Applicable
If Yes, under what conditions:		Flammable upper limits (% vol.):	Not Available
		Flammable lower limits (% vol.):	Not Available
		Boiling Point:	Not Established
Extinguishing methods:	Water, CO ₂ , dry chemical (BC), foam	Flash Point (setafлах closed cup):	Not Established
		Auto-ignition temperature:	Not Established
		Dangerous Combustion Products:	Carbon oxides
Unsuitable Extinguishing Methods:	Water with full jet	Protect from mechanical impact:	No
		Protect from static discharge:	No
Special Hazards:	May generate toxic, irritating or flammable combustion products	Rate of burning:	No
Firefighting Measures:	Not classified	Explosion power:	No
Protective Equipment:	Firefighter wear full breathing apparatus		

SECTION V: REACTIVITY

Chemical stability:	Yes	Dangerous decomposition products:	Carbon oxides.
If not, under what conditions:			
		Polymerization Risks:	Will not occur
Incompatibility with other material:	No	Reactivity under which conditions:	No dangerous reaction expected.
If Yes, which ones:			



PRODUCT: Sikafloor® N PurCem® PART A

SECTION VI: TOXIC PROPERTIES

ROUTE OF ENTRY / CONTACT

Eyes: May cause irritation

Carcinogenicity: Not established

Skin contact: May cause irritation
Skin absorption : No known hazard

Toxic effects on reproduction: Not established

Inhalation: No known hazard

Teratogenicity: Not established

Ingestion: Moderately irritating

Mutagenicity: Not established

Product with synergistic effects: None known

This product has a very low order of acute toxicity and does not represent a significant health hazard to users. The product does however contain components of an organic nature and the hazard assessment is based on a condition of these components.

An acute or chronic exposure will increase the toxic effects mentioned in this section and may aggravate respiratory problems.



PRODUCT: Sikafloor® N PurCem® PART A

SECTION VII: PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

Gloves: Neoprene coated gloves

Respiratory equipment: Not required under normal use and conditions.

Eyes: Wear splash-proof chemical goggles

Shoes: Safety boots per local regulations

Clothing: No specific clothing is required

Other/type: Eye wash facility should be in close proximity. Wash hands prior to smoking and consuming food

OTHERS

Ventilation: Use exhaust ventilation to remove vapor

Procedure in case of leaks: Remove to a container or absorb with clay, diatomaceous earth or other suitable inert absorbent. Dispose as per local regulations

Handling and Equipment Methods: Avoid inhalation, skin and eye contact. Wash repeatedly with soap and water during the workday.

Warehouse Requirements: Keep all containers closed in a cool, dry and well ventilated area.

Special Shipping Instructions: See TDG class.

Waste Disposal: Dispose of residues according to municipal, provincial or federal laws for disposal of chemicals. Do not incinerate closed containers. Follow in-house company procedures.



PRODUCT: Sikafloor® N PurCem® PART A

SECTION VIII: FIRST AID

- General Information: The actions below are those necessary for any chemical which does not have any special medical effects.
Contaminated clothing should be removed and washed before being re-used.
- Skin: Wash thoroughly with soap and water at least 15 minutes.
Remove contaminated clothing wash prior to re-use.
If irritation persists, or if a rash develops, consult a physician
- Eyes: Rinse eyes immediately with plenty of water for at least 15 minutes to ensure a proper wash.
Consult a physician immediately if there is any irritation.
- Inhalation: In the case of overexposure, evacuate to fresh air.
- Ingestion: Immediately rinse mouth out with water and seek medical attention.
If this is not immediately available, drink one or two pints of water.
Do not induce vomiting.
Do not give anything by mouth to an unconscious person.

SECTION IX: PREPARATION INFORMATION

Prepared By: R & D of Sika Canada Inc.
Telephone #: (514) 697-2610
Fax #: (514) 694-2792

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AQ 191 A

Date: 2012/02/01

App: S.G.



SECTION I: PRODUCT INFORMATION

PRODUCT: **Sikafloor® N PurCem® PART B** REVISION DATE: March 14, 2013

USAGE: Urethane coating

MANUFACTURER/SUPPLIER: SIKA CANADA INC.
601, avenue Delmar
Pointe Claire, QC
H9R 4A9

EMERGENCY TELEPHONE NUMBER: CANUTEC (collect) (613) 996-6666

TDG CLASSIFICATION: Not regulated WHMIS Classification: D1A, D2A, D2B
UN NUMBER: Not applicable Class: Not regulated
Packaging Group: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Hazardous ingredients	%	T.L.V.	# CAS	LD ₅₀ (mg/kg) (Species, route)	LC ₅₀ (Species, route)
Polymeric Diphenylmethane diisocyanate	60-100%	Not listed	9016-87-9	> 10 000 (rat, oral)	490mg/m ³ /4H (rat)
** Contains isomers and oligomers of MDI		0.005 ppm **	101-68-8	N.A.	N.A.

SECTION III: PHYSICAL PROPERTIES

Physical State: Liquid
Appearance and Odor: Dark Amber; Slight musty odor
Odor Threshold: 4.0 mg/m³
Evaporation Rate: Not available
Vapor Density: 8.5
Vapor Pressure: 4.0 x 10⁻⁶ mm Hg @ 30°C
Boiling Point: Not available
Melting Point: Not available
Freezing Point: Not available

Solubility (water): Immiscible with water, but will react with water to produce inert and non-biodegradable solids (see section 5-reactivity date)
Solubility (other): Soluble in most organic solvents
pH: Not applicable
% volatility by volume: Not available
Water/Oil Distribution: Not available
Specific Gravity: 1.2 (water = 1)



PRODUCT: Sikafloor® N PurCem® PART B

SECTION IV: FIRE AND EXPLOSION HAZARDS

Flammability: No
 If Yes, under what conditions:

Extinguishing methods:
 Small Fire = Dry chemical Powder, CO₂
 Large Fire = Water spray, fog or foam.
 Do not use water jet

Unsuitable Extinguishing methods: Water with full jet

Special Hazards:
 - When heated and exposed to water a dangerous reaction developing pressure will occur that can rupture closed containers.
 - May generate toxic, irritating or flammable combustion products.

Fire Fighting Methods: Not classified as Flammable

Protective Equipment : Firefighter wear full breathing apparatus

TDG Flammability Class: Not applicable
 Upper Flammable limits (% vol.): Not available
 Lower Flammable limits (% vol.): Not available
 Flash Point (setaflash closed cup): 218°C
 Auto-ignition temperature: 240°C

Hazardous Combustion Products Carbon oxides, Nitrogen oxides, some HCN

Explosion data
 Protect from mechanical impact: Not sensitive
 Protect from static discharge: Not sensitive
 Rate of burning : Not available
 Explosion power : Not expected

SECTION V: REACTIVITY DATA

Chemical stability: Stable
 If not, under what conditions: Elevated temperature and freezing

Incompatibility with other material: Yes

If Yes, which ones: Active hydrogen such as water, alcohol, bases and acids.

The reaction with water is very slow at less than 50°C but is accelerated at higher temperatures.

Reactivity under which conditions :

- Contact with incompatible substances elevated temperatures

Hazardous products of decomposition:
 - Carbon oxides
 - Also thermal decomposition may produce Nitrogen oxides and HCN

Hazardous Polymerization Risks:
 - Highly unlikely under normal industrial uses.
 - Polymerization may occur at elevated temperature in the presence of alkalis, tertiary amines and metal compounds.



PRODUCT: Sikafloor® N PurCem® PART B

SECTION VI: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY / CONTACT

Effects of acute/chronic exposure :

Eyes: The vapor and liquid are an irritant.

Skin contact: Can be a strong irritant and sensitizer.

Skin absorption: No known hazard.

Inhalation: Is a respiratory irritant and potential respiratory sensitizer.

Ingestion: May cause irritation of the gastrointestinal tract. Based on the acute LD50, this product is considered practically non-toxic by ingestion.

Repeated inhalation of vapors at levels above the occupational exposure limit could cause respiratory sensitization. Symptoms may include irritation to the eyes, nose, throat, and lungs, possibly combined with constriction of the throat, tightness of the chest, and difficulty in breathing. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentration of MDI may develop in sensitized persons.

Carcinogenicity effects: None known

Teratogenicity: None known

Mutagenicity: None known

Synergistic Materials: None known

Repeated and/or prolonged contact may cause skin sensitization. There is limited evidence from animal studies that skin contact may play a role in respiratory sensitization. These results emphasize then need for protective clothing including gloves to be worn at all times when handling these chemicals or in maintenance work.

** This material is classified as Hazardous under OSHA hazard communication standard (29 CFR 1910.1200).**

Health Hazard: Irritating to eyes, respiratory system and skin. Inhalation at levels above the occupational exposure limit could cause respiratory sensitization and risk of serious damage to respiratory system. The onset of respiratory symptoms may be delayed for several hours after exposure. A Hyper-active response to even minimal concentrations of MDI may develop in sensitized persons. Sensitized persons should not be exposed to any mixture containing un-reacted MDI.

An acute or chronic exposure will increase the toxic effects mentioned in this section and may aggravate respiratory problems.



PRODUCT: **Sikafloor® N PurCem®** PART B

SECTION VII: PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

Gloves:

Chemical resistant gloves.
Thin latex gloves should be avoided for repeated or long term use.

Respiratory equipment:

An air purifying respirator designed for organic vapor with a HEPA P100 should provide adequate protection when *handling heated product*.

Eyes:

Wear splash-proof chemical goggles
When there is the potential for splashing, a full face shield should be worn.

Shoes:

Safety boots per local regulations

Clothing:

No specific clothing is required, but closed and complete coverage is advised.

Other/type:

Eye wash facility should be in close proximity. Wash hands prior to smoking and consuming food

Personal protection in cases of large spills :

Splash goggles. Full suit. Vapor respirator or a self contained breathing apparatus. Chemically resistant boots and gloves. Suggested protective clothing may not be sufficient in some case of very large spills; consult a specialist before handling this product.

Ventilation:

Use exhaust ventilation to maintain vapor concentrations below occupational health and safety guidelines (see VI). Suitable respiratory equipment should be available in situations when insufficient ventilation or operational procedures demand additional protection.

Procedure in case of leaks:

Clean up by trained personnel. Evacuate the area. Prevent further leakage, spillage or entry into drains and water table. Contain and absorb large spills onto an inert, non-flammable, absorbent moistened carrier (earth or sand). Shovel open top drums or plastic bags for further decontamination, if necessary. Do not seal the bags or tighten the drum lids as dangerous carbon dioxide gas pressure may develop from the reaction of isocyanine and water.
Wash the spillage area with liquid detergent, ethoxylated nonylphenol, Tergitol type or similar reactive hydroxyl containing surfactant, with a 3.0% ammonia concentration or 50-10% sodium carbonate. Remove and properly dispose of the residues.

Procedure in case of leaks (continued):

Test the area prior to re-use for atmospheric MDI and use only after the levels are below the OSHA PEL ceiling. As an alternative for the decontamination solution as isocyanine reactive material can be used like polyethylene or polypropylene glycol and absorbent sand. The reacted material should be left for 30 minutes and then similarly shoveled into open top drums or plastic bags for disposals.

Handling and Equipment Methods:

Avoid personal contact with the product of reacting mixtures. Use only with adequate ventilation to ensure that the occupational exposure limit is not exceeded. The efficiency of the ventilation system must be monitored regularly because of the possibility of blockage. Avoid breathing aerosols, mist and vapors. Wash repeatedly with soap and water during the workday

Warehouse Requirements:

Keep all containers closed in a cool, dry and well ventilated area. Ideal storage temperature is 16-38°C
Keep containers properly sealed and when stored indoors, in a well ventilated area.
Keep contents away from moisture.
Due to reaction with water, producing carbon dioxide gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed.
Do not reseal contaminated containers.
Un-contaminated containers free of moisture may be resealed only after placing under a blanket of dry nitrogen gas.
Do not store in containers made of copper, copper alloys or galvanized surface.

Special Shipping Instructions:

See TDG class.

Waste Disposal:

The generation of waste should be avoided or minimized whenever possible
Dispose of residues according to municipal, provincial or federal laws for disposal of chemicals.
This product (and the decontaminated material) is not a hazardous waste under RCFA 40 CFR 261. Small quantities should be treated with the decontamination solution listed above.
Chemical waste, even small quantities should never be poured down drains or into waterways.
Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.
Follow in-house company procedure.



PRODUCT: Sikafloor® N PurCem® PART B

SECTION VIII: FIRST AID

General Information: In case of accident or if you feel unwell, seek medical advice immediately. Show label where possible. Product contains (pMDI) Polymeric Diphenyl Methylene diisocyanate. Isocyanate contamination can occur from inhalation of vapor. In sensitized individuals this can occur at any concentrations.

Skin: Remove contaminated clothing and wash immediately with plenty of water and soap for at least 15 minutes. Some organic materials such as corn oil or polypropylene or polyethylene glycol are effective in decontaminating MDI from the skin when applied immediately. Wash contaminated clothing wash prior to re-use. In case of persistent irritation, or if a rash develops, seek medical

Eyes: Rinse eyes immediately with plenty of water eyelids open for at least 15 minutes. Consult a physician immediately if there is any irritation.

Inhalation: Remove victim to fresh air. Treatment should be symptomatic for primary irritation of difficulty breathing – if not breathing qualified personnel should administer oxygen or artificial respiration – seek medical attention.

Ingestion: Do not induce vomiting. If subject is conscious immediately rinse mouth out with water. If medical attention is not immediately available, drink one or two pints of water. Do not give anything by mouth to an unconscious person. See a physician immediately.

Additional information: Inadvertent inhalation of vomited material may seriously damage the lungs. Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours. Bronchospasm may be delayed in onset from time of contamination. All people with a known sensitization to isocyanates should seek medical attention immediately after contamination.

SECTION IX: PREPARATION INFORMATION

Prepared By: Sika Canada R & D. Telephone #: (514) 697-2610 Fax #: (514) 694-2792

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SECTION I: PRODUCT INFORMATION

PRODUCT: **Sikafloor®-31N PurCem® PART C** REVISION DATE: February 1st, 2015

USAGE: THREE COMPONENTS, URETHANE BASED TOPCOAT

MANUFACTURER/SUPPLIER: SIKA CANADA INC.
601, avenue Delmar
Pointe Claire, QC
H9R 4A9

EMERGENCY TELEPHONE NUMBER: **CANUTEC (collect) (613) 996-6666**

TDG CLASSIFICATION: Not Regulated WHMIS Classification: E
UN NUMBER: Not Established Class: Not Applicable
Packaging Group: Not Applicable

SECTION II: HAZARDOUS INGREDIENTS

Hazardous ingredients	%	T.L.V.	# CAS	LD ₅₀ (mg/kg) (species, route)	LC ₅₀ (species, route)
PORTLAND CEMENT	60-100	** 10mg/m ³	65997-15-1	Not Available	Not Available
* Total	dust				
** Breathable	dust				

SECTION III: PHYSICAL CHARACTERISTICS

Physical State:	Powder	Boiling Point:	Not Applicable
Appearance and Odor:	Grey powder with no odor	Freezing Point:	Not Applicable
Odor Threshold:	Not Applicable	Density:	3 g/ml
Evaporation Rate:	Not Applicable	Water Solubility:	No
Vapor Density:	Not Applicable	pH:	Not Established
Vapor Pressure:	Not Applicable	% volatility:	0
		Water/Oil Distribution:	Not Established



PRODUCT: Sikafloor®-31N PurCem® PART C

SECTION IV: FIRE AND EXPLOSION HAZARDS

Flammability:	No	TDG flammability Class:	Not Applicable
If Yes, under what conditions:		Flammable upper limits (% vol.):	Not Applicable
		Flammable lower limits (% vol.):	Not Applicable
		Flash Point (method used):	Not Applicable
		Auto-ignition temperature:	Not Applicable
Extinguishing methods:	Not Applicable	Dangerous Combustion Products:	Not Applicable
Special Methods:	None	Protect from mechanical impact:	No
		Protect from static discharge:	No

SECTION V: REACTIVITY

Chemical stability:	Yes	Dangerous decomposition products:	None
If not, under what conditions:			
Incompatibility with other material:	No	Polymerization Risks:	No
If Yes, which ones:			



PRODUCT: **Sikafloor®-31N PurCem®** PART C

SECTION VI: TOXIC PROPERTIES

ROUTE OF ENTRY / CONTACT

Eyes: May cause irritations.
Skin: May be irritating.
Inhalation: May irritate lungs.
Ingestion: May cause an irritation to the G.I. system.

Carcinogenicity: Not Established
Toxic effects on reproduction: Not Established
Teratogenicity: Not Established
Mutagenicity: Not Established
Product with synergistic effects: Not Established

An acute or chronic exposure will increase the toxicological problems mentioned in this section and may aggravate respiratory problems.



PRODUCT: Sikafloor®-31N PurCem® PART C

SECTION VII: PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

Gloves: Ordinary

Respiratory equipment: NIOSH approved mask for dust.

Eyes: Safety glasses

Shoes: Ordinary

Clothing: Ordinary

Other: No

OTHERS

Ventilation: Sufficient ventilation required to control the quantity of dust.

Procedure in case of leaks: Try to recycle the product if not contaminated. Protect yourself from the dust. Pick-up the spill with vacuum in order to reduce dust spread.

Handling and Equipment methods: Avoid dust contact.

Warehouse Requirements: Keep all containers closed in a dry area.

Special Shipping Instructions: No

Waste Disposal: Dispose like domestic garbage.



PRODUCT: Sikafloor®-31N PurCem® PART C

SECTION VIII: FIRST AID

Skin: Clean with plenty of soap and water.
Consult a physician if required.

Eyes: Clean with water for at least 15 minutes.
See a physician immediately.

Inhalation: In the case of overexposure, evacuate to fresh air.
Consult a physician if necessary.

Ingestion: Drink plenty of water. Induce vomiting.
Do not give anything by mouth to an unconscious person.
See a physician immediately.

SECTION IX: PREPARATION INFORMATION

Prepared By: R & D of Sika Canada Inc.
Telephone #: (514) 697-2610
Fax #: (514) 694-2792

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