



SAFETY DATA SHEET 1148

IKO MILLENNIUM ADHESIVE

SECTION 1 – SUBSTANCE IDENTITY AND COMPANY CONTACT INFORMATION

PRODUCT NAME	IKO Millennium Adhesive 1.5 L Cartridge Set Part 1 of 2
TRADE NAME	Foamable Adhesive
PRODUCT NUMBER	1AD0001
CHEMICAL FAMILY	Mixture
PRODUCT USE	Adhesive
MANUFACTURER/SUPPLIER	IKO Industries Ltd. 71 Orenda Road Brampton, Ontario L6W 1V8
WEBSITE	www.iko.com
EMERGENCY NUMBER	CANUTEC: 1-613-996-6666 (24 hours information only)

SECTION 2 – HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

SIGNAL WORD DANGER

SYMBOL(S)



CLASSIFICATION

Acute Toxicity – Category 4
Eye Irritation – Category 2A
Respiratory Sensitivity – Category 1
Skin Irritation – Category 2
Skin Sensitization – Category 1
Specific Target Organ Toxicity (repeated exposure) – Category 2
Specific Target Organ Toxicity (single exposure) – Category 3

HAZARD STATEMENTS

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.



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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 / eye protection / face protection.
 P285 [In case of inadequate ventilation] wear respiratory protection.
 P302 IF ON SKIN: Wash with plenty of water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P314 Get medical advice/attention if you feel unwell.
 P320 Specific treatment (see on this label).
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P342 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
 P362 Take off contaminated clothing and wash it before reuse.
 P363 Wash contaminated clothing before reuse.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

NFPA

Health:1
 Flammability:1
 Instability:0

HMIS

Health:1
 Flammability:1
 Physical Hazards:0

SECTION 3 – CHEMICAL COMPOSITION AND DATA ON COMPONENTS

HAZARDOUS CHEMICAL NAME	% (w/w)	CAS NUMBER
Diphenylmethane diisocyanate, isomers and homologues	25-50	9016-87-9
4,4'-methylene diphenyl diisocyanate	25-50	101-68-8
Methylene diphenyl diisocyanate	2.5-10	26447-40-5

SECTION 4 – FIRST AID

INHALATION

For overexposure, remove to fresh air and seek medical attention.
 In case of unconsciousness place patient stably in side position for transportation. Call a doctor immediately.



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INGESTION	Rinse out mouth with water. Drink 1 - 2 glasses of water but DO NOT induce vomiting. Do not give liquids to a drowsy, convulsing or unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Seek medical treatment.
SKIN CONTACT	If skin becomes irritated seek medical attention. Immediately wash with water and soap and rinse thoroughly.
EYE CONTACT	Rinse opened eye for 20 minutes under running water. Call a Doctor immediately.
ACUTE AND CHRONIC SYMPTOMS	No further relevant information available.
MEDICAL ATTENTION	Symptoms of poisoning may even occur after several hours; therefore-medical observation for at least 48 hours after the accident.

SECTION 5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA	Carbon dioxide, sand, extinguishing powder. Do NOT use water.
FIRE FIGHTING	Use firefighting measures that suit the environment. Product reacts with water. Reaction may produce heat and/or gases. Product is not explosive. However, formation of explosive air/vapor mixtures is possible.
FLAMMABILITY	Not applicable.
PROPERTIES:	
FLASH POINT	176°C (349°F)
FLAMMABLE LIMITS IN AIR	Lower Flammability Limit (% vol): 0.9 Upper Flammability Limit (% vol): 6.7
AUTO IGNITION TEMPERATURE	No information available.
SPECIAL PPE FOR FIRE-FIGHTERS	Protective clothing and respiratory protective device.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE MEASURES AND EMERGENCY PROCEDURES	Keep away from ignition sources. Use personal protective equipment described in section 8, Exposure Control and Personal Protection.
ENVIRONMENTAL PRECAUTIONS	No special measures required.



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SPILL MANAGEMENT

Cover spilled material with neutralization solution (see below) and mix. Wait 15 minutes. Collect material in open head metal containers. Repeat neutralization and cleaning process until surface is decontaminated. Apply drum lid but DO NOT secure. Allow containers to vent for 72 hours to let carbon dioxide escape. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste in accordance with federal state and local regulations. Ensure adequate ventilation.

Neutralization solutions:

1. A mixture of 90% water, 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.

2. A mixture of 80% water, 20% non-ionic surfactant.

Apply solution. Wait 15 minutes. Collect in open-head container. Re-apply until surface is decontaminated. Apply drum lid but DO NOT secure. Let containers vent for 72 hours allowing carbon dioxide to escape. Secure drum lid.

SECTION 7 - HANDLING AND STORAGE

HANDLING PROCEDURE

Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Wash thoroughly after handling. Prevent formation of aerosols. Use personal protective equipment described in section 8, Exposure Control and Personal Protection.

STORAGE PRECAUTIONS

Keep containers tightly closed when not in use. Protect from atmospheric moisture. Keep away from open flames and high temperatures. Storage Temperature: 32°F-90°F. Keep receptacle tightly sealed.

SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

CHEMICAL NAME	OCCUPATIONAL EXPOSURE LIMITS				
	ALBERTA	ONTARIO	BRITISH COLUMBIA	OSHA	ACGIH
Diphenylmethane diisocyanate, isomers and homologues	No information available.				
4,4'-methylene diphenyl diisocyanate	TWA : 0.005 ppm	TWA : 0.005 ppm Ceiling : 0.02 ppm	TWA : 0.005 ppm Ceiling : 0.01 ppm	Ceiling: 0.2 mg/m ³	TWA : 0.05 mg/m ³ Ceiling : 0.2 mg/m ³
Methylene diphenyl diisocyanate	No information available.				

MDI products have poor warning properties, since recognition of an odor is far above the TLV. Observe local/government regulations for respirator use.

ENGINEERING MEASURES

Ensure adequate ventilation.



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PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

SKIN AND BODY PROTECTION Apron. Protective work clothing

Protective gloves: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves: Chloroprene rubber (CR), Nitrile rubber (NBR), Butyl rubber (BR). The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

EYE PROTECTION Face Shield. Safety glasses with side shields. Tightly sealed goggles.

HYGIENE MEASURES Keep away from food, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

OTHER CONTROLS No information available.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (PHYSICAL STATE, COLOR etc.)	Off white- light amber liquid
ODOR	Faint Aromatic
ODOR THRESHOLD	No information available.
PH	No information available.
MELTING POINT/FREEZING POINT	No information available.



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INITIAL BOILING POINT AND BOILING RANGE	No information available.
FLASH POINT	176°C (349°F)
EVAPORATION RATE	No information available.
FLAMMABILITY	No information available.
UPPER/LOWER FLAMMABILITY/EXPLOSIVE LIMITS	Lower Flammability Limit (% vol): 0.9 Upper Flammability Limit (% vol): 6.7 Product does not present an explosion hazard.
VAPOR PRESSURE	0 mm Hg
VAPOR DENSITY	No information available.
RELATIVE DENSITY	No information available.
MOLECULAR WEIGHT	No information available.
SOLUBILITY(IES)	Not miscible or difficult to mix.
PARTITION COEFFICIENT: N-OCTANOL/WATER	No information available.
AUTO-IGNITION TEMPERATURE	No information available.
SPECIFIC GRAVITY	1.12 g/cm ³ (9.346 lbs/gal) 20°C (68°F):
VISCOSITY	No information available.

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY:

CHEMICAL STABILITY Normally stable

POSSIBILITY OF HAZARDOUS REACTIONS May produce violent reactions with bases and numerous organic substances including alcohols and amines. MDI reacts slowly with water to form Carbon Dioxide gas. This gas can cause sealed containers to expand and possibly rupture. Contact with moisture, other materials that react with isocyanates, or temperatures above 350°F, may cause polymerization.

CONDITIONS TO AVOID Exposure to high temperatures. Moisture.

INCOMPATIBLE MATERIALS Reacts with amines, caustic alkali solutions, alcohols, ammonia, oxidizers, acids, polyols. Reacts with water forming carbon dioxide-may rupture sealed containers if contaminated with water.



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HAZARDOUS DECOMPOSITION PRODUCTS Carbon dioxide, carbon monoxide, oxides of nitrogen, dense black smoke, hydrogen cyanide, isocyanic acid, other undetermined compounds. Contact with moisture, other materials that react with isocyanates, or temperatures above 350°F (177°C), may cause polymerization.

SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE/CHRONIC TOXICITY

LD/LC50 VALUES THAT ARE RELEVANT FOR CLASSIFICATION		
101-68-8 4,4'-methylene diphenyl diisocyanate		
Oral	LD50	2200 mg/kg (mouse)

Repeated or prolonged exposure to MDI may result in isocyanate sensitization (chemical asthma) in some individuals, causing them to react to isocyanate exposure at concentrations below the established exposure limits. Symptoms include chest tightness, wheezing, coughing, and shortness of breath. Effects can be delayed. Overexposure can cause lung damage, including decreased lung function. Prolonged or repeated skin contact may cause irritation leading to dermatitis. Skin sensitization may also occur. Lung injury has been observed in laboratory animals after repeated excessive exposure to MDI/polymeric MDI aerosol droplets. Lung tumors have been observed in laboratory animals exposed to aerosol droplets of MDI/polymeric MDI (6 mg/m) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects.

This product is harmful by inhalation, when in contact with the skin and if it is swallowed. This product may cause sensitization by inhalation and skin contact. Repeated inhalation of vapors may cause an allergic respiratory response, the onset of which may be delayed several hours after exposure. This product is irritating to the eyes. Symptoms include itching, burning, redness and tearing. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

No information available.

PRIMARY ROUTE OF EXPOSURE

Skin Contact.

HEALTH EFFECTS:

EYES Irritating effect. Symptoms include itching, burning, redness and tearing.

SKIN Skin irritant. Irritant to skin and mucous membranes. Sensitization possible through skin contact.



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INHALATION Sensitization possible through inhalation. Allergic lung reaction such as asthma, which includes coughing, wheezing, chest pain and tightness, difficulty breathing and shortness of breath; irritation of the upper respiratory tract, which includes burning of mouth, throat, and chest.

INGESTION Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

STOT (SPECIFIC TARGET ORGAN TOXICITY)- SINGLE EXPOSURE No information available.

STOT (SPECIFIC TARGET ORGAN TOXICITY) – REPEATED EXPOSURE No information available.

CARCINOGENICITY

IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER)		
9016-87-9	Diphenylmethane diisocyanate, isomers and homologues	Class 3
101-68-8	4,4'-methylene diphenyl diisocyanate	Class 3

NTP (NATIONAL TOXICOLOGY PROGRAM)
None of the ingredients are listed.

OSHA-Ca (OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION)
None of the ingredients are listed.

REPRODUCTIVE TOXICITY:

DEVELOPMENT OF OFFSPRING No information available.

SEXUAL FUNCTION AND FERTILITY No information available.

GERM CELL MUTAGENICITY No information available.

SECTION 12 – ECOLOGICAL INFORMATION
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ECOTOXICITY No information available.

PERSISTENCE & DEGRADABILITY No information available.

BIODEGRADATION MOBILITY No information available.



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BIOACCUMULATION
POTENTIAL

No information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL
RECOMMENDATIONS

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations. Disposal must be made according to official regulations.

SECTION 14 – TRANSPORT INFORMATION

UN-NUMBER:

DOT Not regulated
ADN, IMDG, LATA Not regulated

UN PROPER SHIPPING
NAME:

DOT Not regulated
ADN, IMDG, LATA Not regulated

TRANSPORT HAZARD
CLASS(ES):

DOT Not regulated
ADN, IMDG, LATA CLASS Not regulated

PACKING GROUP:

DOT Not regulated
IMDG, LATA Not regulated

ENVIRONMENTAL HAZARD Not applicable

SPECIAL PRECAUTIONS
FOR USERS Not applicable

TRANSPORT IN BULK
ACCORDING TO ANNEX II
OF MARPOL 73/78 AND THE
IBC CODE Not applicable

TRANSPORT/ADDITIONAL
INFORMATION MDI (CAS 101-68-8) exhibits a CERCLA RQ equal to 5,000 pounds.
Quantities less than the RQ amount are not regulated in transportation.

UN "MODEL REGULATION" Not regulated



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SECTION 15 - REGULATIONS

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

SARA

SECTION 355 (EXTREMELY HAZAROUS SUBSTANCES)

None of the ingredients are listed

Section 313 (SPECIFIC TOXIC CHEMICAL LISTINGS)

9016-87-9	Diphenylmethane diisocyanate, isomers and homologues
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101-68-8	4,4'-methylene diphenyl diisocyanate
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TSCA (TOXIC SUBSTANCES CONTROL ACT)

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirement

PROPOSITION 65

CHEMICALS KNOWN TO CAUSE CANCER:

None of the ingredients are listed

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY FOR FEMALES:

None of the ingredients are listed

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY FOR MALES:

None of the ingredients are listed

CHEMICALS KNOWN TO CAUSE DEVELOPMENTAL TOXICITY:

None of the ingredients are listed

(DSL) CANADA DOMESTIC SUBSTANCE LIST

All components of this product are on the DSL (Canada Domestic Substance List) or are exempt from DSL requirements:

NEW JERSEY RIGHT-TO-KNOW LIST:

9016-87-9	Diphenylmethane diisocyanate, isomers and homologues
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101-68-8	4,4'-methylene diphenyl diisocyanate
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NEW JERSEY SPECIAL HAZARDOUS SUBSTANCE LIST:

None of the ingredients are listed

PENNSYLVANIA RIGHT-TO-KNOW LIST:

101-68-8	4,4'-methylene diphenyl diisocyanate
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PENNSYLVANIA SPECIAL HAZARDOUS SUBSTANCE LIST:		
101-68-8	4,4'-methylene diphenyl diisocyanate	E

CANCEROGENICITY CATEGORIES:

EPA (ENVIRONMENTAL PROTECTION AGENCY)		
9016-87-9	Diphenylmethane diisocyanate, isomers and homologues	CBD
101-68-8	4,4'-methylene diphenyl diisocyanate	D, CBD

TLV (THRESHOLD LIMIT VALUE ESTABLISHED BY ACGIH)	
None of the ingredients are listed.	

MAK (GERMAN MAXIMUM WORKPLAVE CONCENTRATION)		
101-68-8	4,4'-methylene diphenyl diisocyanate	4
9016-87-9	Diphenylmethane diisocyanate, isomers and homologues	4

NIOSH-CA (NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH)	
None of the ingredients are listed.	

CHEMICAL SAFETY ASSESSMENT: A Chemical Safety Assessment has not been carried out.

SECTION 16 – OTHER INFORMATION

REVISION DATE OF SDS January 23, 2018

REPLACES THE MSDS/SDS June 30, 2017
FROM

PREPARED BY HSE department

GENERAL INFORMATION 1-888-766-2468

WEBSITE www.iko.com

OTHER INFO/DISCLAIMERS Read this Safety Data Sheet before handling or disposing of this product.

This product safety information is provided to help our customers with health, safety and/or environmental matters. We have taken reasonable effort to ensure that the test methods and sources for this data are correct and reliable, however, we give no warranty, expressed or implied, regarding its correctness. Since conditions or methods of handling and using this product are beyond our control, we do not assume responsibility and expressly disclaim liability for damages resulting from or connected with the handling, storage, use or disposal of the product.



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SECTION 1 – SUBSTANCE IDENTITY AND COMPANY CONTACT INFORMATION

PRODUCT NAME	IKO Millennium Adhesive 1.5 L Cartridge Set Part 2 of 2
TRADE NAME	Foamable Adhesive
PRODUCT NUMBER	1AD0001
CHEMICAL FAMILY	Mixture
PRODUCT USE	Adhesive
MANUFACTURER/SUPPLIER	IKO Industries Ltd. 71 Orenda Road Brampton, Ontario L6W 1V8
WEBSITE	www.iko.com
EMERGENCY NUMBER	CANUTEC: 1-613-996-6666 (24 hours information only)

SECTION 2 – HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

SIGNAL WORD WARNING

SYMBOL(S)



CLASSIFICATION Eye Effects - Category 2A
Skin Sensitization - Category 1
Skin Irritation - Category 2

HAZARD STATEMENTS H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

PRECAUTIONARY STATEMENTS P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P264 Wash thoroughly after handling.
P272 Contaminated work clothing must not be allowed out of the workplace.
P290 Wear protective gloves / eye protection / face protection.
P303+P361+P353 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.



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P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

NFPA	Health: 1 Flammability: 1 Instability: 0
HMIS	Health: 1 Flammability: 1 Physical Hazards: 0

SECTION 3 – CHEMICAL COMPOSITION AND DATA ON COMPONENTS

HAZARDOUS CHEMICAL NAME	% (w/w)	CAS NUMBER
N-[3-(trimethoxysilyl)propyl]ethylenediamine	≤ 2.5	1760-24-3

SECTION 4 – FIRST AID

INHALATION	For overexposure, remove to fresh air and seek medical attention. In case of unconsciousness place patient stably in side position for transportation. Call a doctor immediately.
INGESTION	Rinse out mouth with water. Drink 1 - 2 glasses of water but DO NOT induce vomiting. Do not give liquids to a drowsy, convulsing or unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Seek medical treatment.
SKIN CONTACT	Immediately wash with water and soap and rinse thoroughly.
EYE CONTACT	Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.
ACUTE AND CHRONIC SYMPTOMS	Refer to section 11, Toxicological Information, for additional information.
MEDICAL ATTENTION	No information available.

SECTION 5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA	No information available.
FIRE FIGHTING	Use firefighting measures that suit the environment. Dried solids can burn and release toxic fumes and vapors.



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FLAMMABILITY

No information available.

PROPERTIES:

FLASH POINT > 350°C (> 662°F)

FLAMMABLE LIMITS IN AIR Lower Flammability Limit (% vol): 0.9
Upper Flammability Limit (% vol): 6.7

AUTO IGNITION TEMPERATURE This product is not self-igniting.

SPECIAL PPE FOR FIRE-FIGHTERS Protective clothing and respiratory protective device.

SECTION 7 - HANDLING AND STORAGE

PERSONAL PRECAUTIONS,
PROTECTIVE MEASURES AND
EMERGENCY PROCEDURES

Ensure adequate ventilation. Use personal protective equipment described in section 8, Exposure Control and Personal Protection.

Protective action criteria for chemicals:

PAC-1:		
67762-90-7	Synthetic Amorphous Silica	120 mg/m ³
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	23 mg/m ³

PAC-2:		
67762-90-7	Synthetic Amorphous Silica	1300 mg/m ³
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	250 mg/m ³

PAC-3:		
67762-90-7	Synthetic Amorphous Silica	7,900 mg/m ³
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	1,500 mg/m ³

ENVIRONMENTAL
PRECAUTIONS

Do not allow to enter sewers/ surface or ground water.

SPILL MANAGEMENT

Dispose of contaminated material as waste in accordance with federal state and local regulations. Use water, if necessary with cleansing agents.



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HANDLING PROCEDURE

Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Wash thoroughly after handling. Open containers in a well-ventilated area and avoid breathing headspace vapors. Use personal protective equipment described in section 8, Exposure Control and Personal Protection.

STORAGE PRECAUTIONS

Store away from oxidizing agents.

SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

CHEMICAL NAME	OCCUPATIONAL EXPOSURE LIMITS				
	ALBERTA	ONTARIO	BRITISH COLUMBIA	OSHA	ACGIH
N-(3-(trimethoxysilyl)propyl)ethylenediamine	No information available.				

ENGINEERING MEASURES

Ensure adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION

Not necessary if room is well ventilated.

SKIN AND BODY PROTECTION

Protective work clothing.

Protective gloves: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves: Nitrile rubber (NBR), Chloroprene rubber (CR). The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

EYE PROTECTION

Safety glasses with side shields.

HYGIENE MEASURES

Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

OTHER CONTROLS

No information available.



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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (PHYSICAL STATE, COLOR etc.)	Colorless Liquid
ODOR	Polyether
ODOR THRESHOLD	No information available.
PH	9-10 at 20°C
MELTING POINT/FREEZING POINT	No information available.
INITIAL BOILING POINT AND BOILING RANGE	No information available.
FLASH POINT	> 350°C (> 662°F)
EVAPORATION RATE	No information available.
FLAMMABILITY	Product is not flammable
UPPER/LOWER FLAMMABILITY/EXPLOSIVE LIMITS	Lower Flammability Limit (% vol): 0.9 Upper Flammability Limit (% vol): 6.7 Product does not present an explosion hazard.
VAPOR PRESSURE	No information available.
VAPOR DENSITY	No information available.
MOLECULAR WEIGHT	No information available.
SOLUBILITY(IES)	No information available.
PARTITION COEFFICIENT: N-OCTANOL/WATER	No information available.
AUTO-IGNITION TEMPERATURE	Product is not self-igniting.
SPECIFIC GRAVITY	0.98 g/cm ³ (8.178 lbs/gal)
VISCOSITY	No information available.



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SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY

CHEMICAL STABILITY	Stable under recommended storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS	No decomposition if used according to specifications. No dangerous reactions known.
CONDITIONS TO AVOID	Exposure to high temperatures.
INCOMPATIBLE MATERIALS	Reacts with oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide, carbon dioxide and tin oxide

SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE/CHRONIC TOXICITY	No information available.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	No information available.
PRIMARY ROUTE OF EXPOSURE	Skin contact.
HEALTH EFFECTS:	
EYES	May irritate the eye. Symptoms include itching, burning, redness and tearing. May cause eye burns.
SKIN	Skin irritant. Sensitization possible through skin contact.
INHALATION	Allergic lung reaction such as asthma, which includes coughing, wheezing, chest pain and tightness, difficulty breathing and shortness of breath; irritation of the upper respiratory tract, which includes burning of mouth, throat, and chest.
INGESTION	Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
STOT (SPECIFIC TARGET ORGAN TOXICITY)- SINGLE EXPOSURE	No information available.
STOT (SPECIFIC TARGET ORGAN TOXICITY) – REPEATED EXPOSURE	No information available.



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CARCINOGENICITY

IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER)

None of the ingredients are listed.

NTP (NATIONAL TOXICOLOGY PROGRAM)

None of the ingredients are listed

OSHA-Ca (OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION)

None of the ingredients are listed

REPRODUCTIVE TOXICITY

DEVELOPMENT OF OFFSPRING No information available.

SEXUAL FUNCTION AND FERTILITY No information available.

GERM CELL MUTAGENICITY No information available.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY No information available.

PERSISTENCE & DEGRADABILITY No information available.

BIODEGRADATION MOBILITY No information available.

BIOACCUMULATION POTENTIAL No information available.

GENERAL INFORMATION Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL RECOMMENDATIONS Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations. Disposal must be made according to official regulations.



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SECTION 14 – TRANSPORT INFORMATION

UN-NUMBER:
 DOT Not regulated
 ADN, IMDG, LATA Not regulated

UN PROPER SHIPPING NAME:
 DOT Not regulated
 ADN, IMDG, LATA Not regulated

TRANSPORT HAZARD
 CLASS(ES):
 DOT CLASS Not regulated
 AND/R CLASS Not regulated

PACKING GROUP:
 DOT Not regulated
 IMDG, LATA Not regulated

ENVIRONMENTAL HAZARD Not applicable

SPECIAL PRECAUTIONS FOR USERS Not applicable

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE Not applicable

UN "MODEL REGULATION" Not regulated

SECTION 15 - REGULATIONS

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

SARA

SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES)
None of the ingredients are listed.

SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS)
None of the ingredients are listed.

TSCA (TOXIC SUBSTANCES CONTROL ACT)
All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.



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IKO MILLENNIUM ADHESIVE

PROPOSITION 65

CHEMICALS KNOWN TO CAUSE CANCER:

None of the ingredients are listed.

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY FOR FEMALES:

None of the ingredients are listed.

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY IN MALES:

None of the ingredients are listed.

CHEMICALS KNOWN TO CAUSE DEVELOPMENTAL TOXICITY:

None of the ingredients are listed.

(DSL) CANADA DOMESTIC SUBSTANCE LIST

All components of this product are on the DSL (Canada Domestic Substance List) or are exempt from DSL requirements:

NEW JERSEY RIGHT-TO-KNOW LIST:

None of the ingredients are listed.

NEW JERSEY SPECIAL HAZARDOUS SUBSTANCE LIST:

None of the ingredients are listed.

PENNSYLVANIA RIGHT-TO-KNOW LIST:

None of the ingredients are listed.

PENNSYLVANIA SPECIAL HAZARDOUS SUBSTANCE LIST:

None of the ingredients are listed.

CANCEROGENICITY CATEGORIES:

EPA (ENVIRONMENTAL PROTECTION AGENCY)

None of the ingredients are listed.

TLV (THRESHOLD LIMIT VALUE ESTABLISHED BY ACGIH)

None of the ingredients are listed.

MAK (GERMAN MAXIMUM WORKPLACE CONCENTRATION)

None of the ingredients are listed.



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NIOSH-Ca (NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH)
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None of the ingredients are listed.

NATIONAL REGULATIONS:

- WATER HAZARD CLASS: Water Hazard class 1 (self-assessment): slightly hazardous for water.
- CHEMICAL SAFETY ASSESSMENT: A Chemical Safety Assessment has not been carried out.

SECTION 16 – OTHER INFORMATION

REVISION DATE OF SDS January 23, 2018

REPLACES THE MSDS/SDS June 30, 2017
FROM

PREPARED BY HSE department

GENERAL INFORMATION 1-888-766-2468

WEBISTE www.iko.com

OTHER INFO/DISCLAMERS Read this Safety Data Sheet before handling or disposing of this product.

This product safety information is provided to help our customers with health, safety and/or environmental matters. We have taken reasonable effort to ensure that the test methods and sources for this data are correct and reliable, however, we give no warranty, expressed or implied, regarding its correctness. Since conditions or methods of handling and using this product are beyond our control, we do not assume responsibility and expressly disclaim liability for damages resulting from or connected with the handling, storage, use or disposal of the product.