



SEAL KING INC.
7134 WELLINGTON COUNTY ROAD #124 SOUTH
Guelph, ONTARIO, N1H6N3
Canada
519-821-1250

PRODUCT: Brick and Block Adhesive

CODE: SK/BBA

Version	Revision Date:	SDS Number:	Date of last issue: 05/12/2020
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SECTION 1. IDENTIFICATION

PRODUCT IDENTIFIER..... Brick and Block Adhesive
 PRODUCT CODE(S)..... SK/BBA
 Product Class..... Aromatic isocyanates based adhesive.
 RECOMMENDED USE AND Product for construction chemicals . Reserved for industrial and professional use.
 RESTRICTIONS
 SUPPLIER IDENTIFIER..... Seal King Inc.
 7134 Wellington County Road #124 South
 Guelph
 Ontario
 Canada
 N1H6N3
 (519) 821-1250
 EMERGENCY NUMBER..... During business hours 519 821 1250. After business hours 613 996 6666.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Acute toxicity (Inhalation) : Category 4
 Skin corrosion/irritation : Category 2
 Serious eye damage/eye irritation : Category 2A
 Respiratory sensitization : Category 1
 Skin sensitization : Category 1
 Specific target organ toxicity : Category 3 (respiratory tract irritation)
 - single exposure
 Specific target organ toxicity : Category 2 (Nasal cavity)
 - repeated exposure
 (Inhalation)

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements	: H319 Causes serious eye irritation. H315 Causes skin irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H373 May cause damage to organs (Nasal cavity) through prolonged or repeated exposure.
Precautionary Statements	: Prevention: P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P271 Use only outdoors or in a well-ventilated area. P260 Do not breathe dust or mist. P284 In case of inadequate ventilation wear respiratory protection. P272 Contaminated work clothing should not be allowed out of the workplace. P264 Wash face, hands and any exposed skin thoroughly after handling. Response: P312 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. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P314 Get medical advice/ attention if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P337 + P313 If eye irritation persists: Get medical advice/ attention. Storage: P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. Disposal: P501 Dispose of contents/container to appropriate hazardous waste collection point.

Other hazards

CONTAINS ISOCYANATES. INHALATION OF ISOCYANATE MISTS OR VAPORS MAY CAUSE RESPIRATORY IRRITATION, BREATHLESSNESS, CHEST DISCOMFORT AND REDUCED PULMONARY FUNCTION. OVEREXPOSURE WELL ABOVE THE PEL MAY RESULT IN BRONCHITIS, BRONCHIAL SPASMS AND PULMONARY EDEMA. LONG-TERM

EXPOSURE TO ISOCYANATES HAS BEEN REPORTED TO CAUSE LUNG DAMAGE, INCLUDING REDUCED LUNG FUNCTION WHICH MAY BE PERMANENT. ACUTE OR CHRONIC OVEREXPOSURE TO ISOCYANATES MAY CAUSE SENSITIZATION IN SOME INDIVIDUALS, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING. ANIMAL TESTS INDICATE THAT SKIN CONTACT MAY PLAY A ROLE IN CAUSING RESPIRATORY SENSITIZATION.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Aromatic isocyanates

Components

Chemical name	CAS-No.	Concentration (% w/w)
Diphenylmethane-4,4'-diisocyanate (MDI)	101-68-8	$\geq 10 - < 15$
methylenediphenyl diisocyanate	26447-40-5	$\geq 3 - < 5$
Polymethylene polyphenylisocyanate, polyethylene glycol polymer	57636-09-6	$\geq 0.1 - < 0.2$
talc	14807-96-6	$\geq 25 - < 50$
Distillates (petroleum), hydrotreated middle	64742-46-7	$\geq 1 - < 5$

SECTION 4. FIRST AID MEASURES

General advice	: First aid personnel should pay attention to their own safety. Remove contaminated clothing.
If inhaled	: If generated vapours are inhaled, move to fresh air. Seek medical attention.
In case of skin contact	: If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Rinse mouth and then drink 200-300 ml of water. DO NOT induce vomiting unless directed to do so by a physician or poison control center.
Most important symptoms and effects, both acute and delayed	: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Foam Water spray Dry powder Carbon dioxide (CO2)
Unsuitable extinguishing media	: water jet
Hazardous combustion products	: harmful vapours nitrogen oxides fumes/smoke carbon black
Further information	: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for fire-fighters	: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
Environmental precautions	: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	: Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling	: Avoid formation of respirable particles. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap-

plication area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to 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.

Conditions for safe storage	: Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Further information on storage conditions	: Keep only in the original container in a cool, well-ventilated place. Protect from direct sunlight. Store protected against freezing.
Further information on storage stability	: No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Diphenylmethane-4,4'-diisocyanate (MDI)	101-68-8	TWA value	0.005 ppm 0.005 ppm	ACGIHTLV NIOSH
		REL value	0.05 mg/m3	NIOSH 29
		Cell_Time	0.020 ppm 0.2 mg/m3 0.02	CFR 1910.1000 (Table Z-1) 29
		CLV	ppm 0.2 mg/m3 0.02 ppm 0.2	CFR 1910.1000 (Table Z-1-A)
		CLV	mg/m3 0.005 ppm 0.05	CA AB OEL CA BC OEL
		TWA	mg/m3 0.005 ppm 0.01 ppm	CA BC OEL
		TWA	0.005 ppm	
		C	0.02 ppm	
		TWA	0.005 ppm	CA ON OEL
		C	0.005 ppm	CA ON OEL
		TWAEV	0.051 mg/m3	CA QC OEL
		TWA	0.005 ppm	ACGIH
talc	14807-96-6	TWA value (Respirable fraction)	2 mg/m3	ACGIHTLV

		TWAEV (fibres)	1 fibres per cubic centimeter	CA QC OEL
		TWAEV (respirable dust)	3 mg/m ³	CA QC OEL
		TWA	0.1 fibres per cubic centimeter	CA BC OEL
		TWA (Res-pirable particulates)	2 mg/m ³	CA AB OEL
		TWA (Res-pirable)	2 mg/m ³	CA BC OEL
		TWA	2 fibres per cubic centimeter	CA ON OEL
		TWA (Res-pirable fraction)	2 mg/m ³	CA ON OEL
		TWA	0.1 fibres per cubic centimeter	ACGIH
		TWA (Res-pirable particulate matter)	2 mg/m ³	ACGIH
Distillates (petroleum), hy-drotreated middle	64742-46-7	TWA value (Inhalable fraction)	5 mg/m ³	ACGIHTLV NIOSH
		STEL value (Mist)	10 mg/m ³	NIOSH 29 CFR 1910.1000
		REL value (Mist)	5 mg/m ³	(Table Z-1) 29
		PEL (Mist)	5 mg/m ³	CFR 1910.1000 (Table Z-1-A)
		TWA value (Mist)	5 mg/m ³	CA AB OEL CA AB OEL
		TWA (Mist)	5 mg/m ³	CA QC OEL
		STEL (Mist)	10 mg/m ³	CA QC OEL
		TWAEV (Mist)	5 mg/m ³	
		STEV (Mist)	10 mg/m ³	

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Wear appropriate certified respirator when exposure limits may be exceeded.

Hand protection

Remarks : Chemical resistant protective gloves Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection	: Safety glasses with side-shields.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Protective measures	: Avoid contact with the skin, eyes and clothing. No special measures necessary if stored and handled correctly. Handle in accordance with good building materials hygiene and safety practice. Wearing of closed work clothing is recommended.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: paste
Color	: tan
Odor	: oily, mild
Odor Threshold	: not determined
pH	: neutral to slightly alkaline
Melting point	: Not applicable
Freezing point	: Not applicable
Boiling point	: No applicable Information available.
Flash point	: > 93.34 °C
Evaporation rate	: No applicable information available.
Flammability (solid, gas)	: not determined
Upper explosion limit / Upper flammability limit	: 10.2 %(V)
Lower explosion limit / Lower flammability limit	: 1.6 %(V)
Vapor pressure	: No data available.
Relative vapor density	: Heavier than air.

Relative density	: 1.294 - 1.378
Density	: 10.8 - 11.5 lb/USg
Bulk density	: 1.26 g/cm3
Solubility(ies) Water solubility	: slightly soluble
Solubility in other solvents	: No applicable information available.
Partition coefficient: n-octanol/water	: No data available.
Autoignition temperature	: No data available.
Decomposition temperature	: No decomposition if stored and handled as pre-scribed/indicated.
Viscosity Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Oxidizing properties	: Based on its structural properties the product is not classified as oxidizing.
Self-heating substances	: No data available
Sublimation point	: No applicable information available.
Molecular weight	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No hazardous reactions if stored and handled as pre-scribed/indicated.
Chemical stability	: The product is stable if stored and handled as pre-scribed/indicated.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: See SDS section 7 - Handling and storage.
Incompatible materials	: Strong acids Strong bases Strong oxidizing agents Strong reducing agents
Hazardous decomposition products	: No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if inhaled.

Product:

Acute oral toxicity : Remarks: No applicable information available.

Acute inhalation toxicity : ATE: 3.11 mg/l Remarks:
Determined for mist

Acute dermal toxicity : Remarks: No applicable information available.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious 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 inhaled.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs (Nasal cavity) through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : Health injuries are not known or expected under normal use.
The product has not been tested. The statements on toxicology
have been derived from the properties of the individual
components.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

Diphenylmethane-4,4'-diisocyanate (MDI):

Partition coefficient: : log Pow: 4.51 (22 °C)

n-octanol/water pH: 7

Method: Partition coefficient (n-octanol/water), HPLC method.
GLP: no

methylenediphenyl diisocyanate:

Partition coefficient: : log Pow: 4.51 (22 °C)

n-octanol/water pH: 7

Method: Partition coefficient (n-octanol/water), HPLC method.
GLP: no

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological
information

: There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

: Dispose of in accordance with national, state and local regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. Do not discharge into drains/surface waters/groundwater.

Contaminated packaging

: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

TDG

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

The ingredients of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

TSCA : All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

29 CFR 1910.1000 (Table Z-1-A) : OSHA - Table Z-1-A (29 CFR 1910.1000)

29 CFR 1910.1000 (Table Z-1) : OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR 1910.1000

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH TLV : American Conference of Governmental Industrial Hygienists - threshold limit values (US)

CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)

CA BC OEL : Canada. British Columbia OEL

CA ON OEL : Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.

CA QC OEL : Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

NIOSH : NIOSH Pocket Guide to Chemical Hazards (US)

29 CFR 1910.1000 (Table Z-1-A) / CLV : Ceiling Limit Value:

29 CFR 1910.1000 (Table Z-1-A) / TWA value : Time Weighted Average (TWA):

29 CFR 1910.1000 (Table Z- : Ceiling Limit Value:

1) / CLV

29 CFR 1910.1000 (Table Z- : Permissible exposure limit

1) / PEL

ACGIH / TWA : 8-hour, time-weighted average

ACGIHTLV / TWA value : Time Weighted Average (TWA):

CA AB OEL / TWA : 8-hour Occupational exposure limit

CA AB OEL / STEL : 15-minute occupational exposure limit

CA BC OEL / TWA : 8-hour time weighted average

CA BC OEL / C : ceiling limit

CA ON OEL / C : Ceiling Limit (C)

CA ON OEL / TWA : Time-Weighted Average Limit (TWA)

CA QC OEL / TWA EV : Time-weighted average exposure value

CA QC OEL / STEV : Short-term exposure value

NIOSH / Ceil_Time : Ceiling Limit Value and Time Period (if specified):

NIOSH / REL value : Recommended exposure limit (REL):

NIOSH / STEL value : Short Term Exposure Limit (STEL):

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Revision Date : 01/06/2021

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