



Version 1.1	Revision Date: 02/16/2021		OS Number: 0000764510	Date of last issue: 12/15/2020 Date of first issue: 12/15/2020		
SECTION	1. IDENTIFICATION					
Prod	uct name	:	Sikagard P 770 P	TB Formerly MSeal P 770 PTB		
Prod	uct code	:	0000000005054	0000000050547664		
Manufacturer or supplier's						
Company name of supplier		•	Sika MBCC US LLC			
Address		:	201 POLITO AVE Lyndhurst NJ 07071			
Emergency telephone		:	ChemTel: +1-813-248-0585			
Recommended use of the c Recommended use		chen :	mical and restrictions on use Functional surface coating			
Restrictions on use		:	Reserved for indu	strial and professional use.		

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord Acute toxicity (Inhalation - vapour)		
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irritation	:	Category 2A
Respiratory sensitization	:	Category 1
Skin sensitization	:	Category 1
Carcinogenicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory Tract)
Specific target organ toxicity - repeated exposure (Inhala- tion)	:	Category 2 (Olfactory organs)

GHS label elements



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Haza	rd pictograms		
Signa	al Word	: Danger	
Haza	rd Statements	H334 May cau culties if inhale H317 May cau H335 May cau H351 Suspecte H373 May cau	skin irritation. serious eye irritation. se allergy or asthma symptoms or breathing diffi-
Preca	autionary Statements	face protection P271 Use only P260 Do not be P201 Obtain sp P202 Do not ha and understood P284 In case of tion. P272 Contamin the workplace.	outdoors or in a well-ventilated area. reathe dust or mist. becial instructions before use. andle until all safety precautions have been read
		CENTER/ doct P305 + P351 + for several min to do. Continue P304 + P340 II keep comfortal P314 Get med P302 + P352 II P332 + P313 If tion. P362 + P364 T reuse. P337 + P313 If tion. Storage:	 P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and easy e rinsing. F INHALED: Remove person to fresh air and ble for breathing. ical advice/ attention if you feel unwell. F ON SKIN: Wash with plenty of water. f skin irritation occurs: Get medical advice/ atten- ⁷ake off contaminated clothing and wash it before f eye irritation persists: Get medical advice/ atten-
		tightly closed.	Store in a well-ventilated place. Keep container



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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

Substance / Mixture	:	Mixture
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Chemical nature : isocyanate

Components

Chemical name	CAS-No.	Concentration (% w/w)
Isocyanic acid, polymethylenepoly- phenylene ester (P-MDI)	9016-87-9	>= 25 - < 50
Diphenylmethane-4,4'-diisocyanate (MDI)	101-68-8	>= 25 - < 50
diphenylmethane-2,4'-diisocyanate	5873-54-1	>= 1 - < 3
Isocyanic acid, polymethylenepoly- phenylene ester, polymer with alpha- hydro-omega-hydroxypoly(oxy-1,2- ethanediyl)	57636-09-6	>= 0.3 - < 1

SECTION 4. FIRST AID MEASURES

General advice	:	First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.
If inhaled	:	Keep patient calm, remove to fresh air. If symptoms persist, seek medical advice.
In case of skin contact	:	After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.
In case of eye contact	:	Contact lenses should be removed. Hold eyelids open and



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			vious amounts of clean, fresh water or a special tion and seek medical advice.
lf sv	wallowed	seek medical	inse mouth and then drink 200-300 ml of water, attention. e vomiting unless told to by a poison control cen-
and	st important symptoms l effects, both acute and ayed	May cause ar May cause al ties if inhaled May cause re Suspected of	rritation. us eye irritation. n allergic skin reaction. lergy or asthma symptoms or breathing difficul- spiratory irritation. causing cancer. amage to organs through prolonged or repeated
Not	es to physician	: Treat sympto	matically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Foam Water spray Dry powder Carbon dioxide (CO2)
Unsuitable extinguishing media	:	water jet
Specific hazards during fire fighting	:	Under certain conditions in case of fire other hazardous com- bustion products may be generated.
Hazardous combustion prod- ucts	:	carbon oxides Cyanides nitrogen oxides isocyanate
Further information	:	The degree of risk is governed by the burning substance and the fire conditions. If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.
Special protective equipment for fire-fighters	:	Wear a self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES



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Personal precautions, protec- tive equipment and emer- gency procedures		:	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear eye/face protection. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.	
En	vironmental precautions	:		ated water/firefighting water. into drains/surface waters/groundwater.
	thods and materials for tainment and cleaning up	:		ble appliance and dispose of. bed material in accordance with regulations.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	The product is neither self-ignitable, nor an explosion hazard, nor does it promote fires.
Advice on safe handling	:	Avoid inhalation of dusts/mists/vapours. Avoid skin contact. Ensure adequate ventilation. No special measures necessary provided product is used correctly.
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 stor- age conditions	:	Keep only in the original container in a cool, dry, well- ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.
Recommended storage tem- perature	:	50 - 86 °F / 10 - 30 °C
Further information on stor- age stability	:	Characteristics of the product are irreversibly changed below the limit temperature.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components CAS-No. Value type Control parame-Basis (Form of ters / Permissible exposure) concentration Diphenylmethane-4,4'-TWA value 101-68-8 0.005 ppm ACGIHTLV diisocyanate (MDI) NIOSH **REL** value 0.005 ppm 0.05 mg/m3 Ceil_Time 0.020 ppm NIOSH <u>0.2 mg/m3</u>

Ingredients with workplace control parameters



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					CLV	0.02 ppm 0.2 mg/m3	29 CFR 1910.1000 (Table Z-1)	
					CLV	0.02 ppm 0.2 mg/m3	29 CFR 1910.1000 (Table Z-1-A)	
					TWA C	0.005 ppm 0.02 ppm	ACGIH OSHA Z-1	
					С	0.2 mg/m3 0.02 ppm 0.2 mg/m3	OSHA P0	
					TWA	0.005 ppm 0.05 mg/m3	NIOSH REL	
					С	0.02 ppm 0.2 mg/m3	NIOSH REL	
I	Engineering measures		:	Provide local P.E.L.	exhaust ventila	tion to maintain recom	imended	
	Personal p Respiratory	rotective equipm protection	 Mear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) respirator as necessary. 					
I	Hand proted	ction						
	Remarks	5	:			gloves Manufacturer' ved because of great		
I	Eye protecti	ion	:	Safety glasse	s with side-shie	lds.		
;	Skin and bo	ody protection	:	Body protection and exposure		sen based on level of	activity	
I	Protective n	neasures	:	 Do not inhale dust/fumes/aerosols. Avoid contact with the skin, eyes and clothing. Avoid exposure - obtain special instructions before use. Handle in accordance with good building materials hygiene and safety practice. Wearing of closed work clothing is recommended. 				
I	Hygiene me	easures	:	 When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skincare agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). When using do not eat or drink. 				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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	Appear	rance	:	viscous liquid	
	Color		:	dark brown	
	Odor		:	aromatic	
	Odor T	hreshold	:	not determined	
	рН		:	unmeasurable	
	Melting) point	:	No data available	9
	Boiling	range	:	approx. 392 - 662	2 °F / 200 - 350 °C
	Flash p	point	:	approx. 403 °F /	206 °C
	Evapor	ration rate	:	No data available	ð.
	Flamm	ability (liquids)	:	The product is no	ot flammable.
	Self-igr	nition	:	not self-igniting	
		explosion limit / Upper ability limit	:	No applicable inf	ormation available.
		explosion limit / Lower ability limit	:	No applicable inf	ormation available.
	Vapor	pressure	:	not determined	
	Relativ	e vapor density	:	No data available	9
	Relativ	e density	:	No data available	9
	Density	/	:	approx. 1.01 g/cr	n3 (73 °F / 23 °C)
	Bulk de	ensity	:	Not applicable	
	Solubili Wat	ity(ies) ter solubility	:	hydrolyzes	
	Solu	ubility in other solvents	:	No data available	2
	Partitio octano	n coefficient: n- I/water	:	unmeasurable	
	Autoigr	nition temperature	:	not determined	
	Decom	position temperature	:	No decompositio scribed/indicated	n if stored and handled as pre-



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Vi	osity scosity, dynamic scosity, kinematic osive properties	:	approx. 160 m No data availa Not explosive		
	zing properties mation point		not fire-propa No data availa		
Mole	cular weight	:	No data availa	able	

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 reac- tions	:	The product is stable if stored and handled as pre- scribed/indicated.
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.

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.



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•	atory sensitization use allergy or asthma	symptoms or breathing	g difficulties if inhaled.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

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

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		
Product:		
Ecotoxicology Assessment Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
Persistence and degradability <u>Product:</u> Biodegradability :		Remarks: Taking into consideration the properties of several ingredients, the product is estimated not to be readily biode-gradable according to OECD classification.
Bioaccumulative potential		
Product:		
Bioaccumulation	:	Remarks: No data available. Discharge into the environment must be avoided.



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Comp	oonents:		
Isocy	anic acid, polymethy	lenepolyphenylene	ester (P-MDI):
Bioac	cumulation	: Remarks: Acc	umulation in organisms is not to be expected.
	ity in soil		
No da	ta available		
Other	adverse effects		
Produ	uct:		
Additi matio	onal ecological infor- n	The product he	rge product into the environment without control. as not been tested. The statements on ecotoxi- een derived from the properties of the individual
SECTION	13. DISPOSAL CONS	IDERATIONS	
Dispo	osal methods		

Disposal methods	
Waste from residues :	Observe national and local legal requirements. Disposal requirements are dependent on the hazard classifi- cation and will vary by location and the type of disposal se- lected. The use and processing of this product, or addition of other constituents, may cause it to be considered a hazardous waste. Residues should be disposed of in the same manner as the
Contaminated packaging :	substance/product. Contaminated packaging should be emptied as far as possible
Containinated packaging	and disposed of in the same manner as the sub- stance/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



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49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

SARA 313			e following components are subject to reporting levels es- plished by SARA Title III, Section 313:		
		Isocyanic acid, polymethylene- polyphenylene ester (P-MDI)	9016-87-9	>= 30 - < 50 %	
		Diphenylme- thane-4,4'- diisocyanate (MDI)	101-68-8	>= 30 - < 50 %	
US State Regulations					
Pennsylvania Right To K	(now				
	ne-4,4'-	thylenepolyphenyle diisocyanate (MDI)		9016-87-9 101-68-8 78-93-3	
New Jersey Right To Kno	ow				
	ne-4,4'-	thylenepolyphenyle diisocyanate (MDI) diisocyanate		9016-87-9 101-68-8 5873-54-1	
The ingredients of this p	roduct	are reported in th	ne following invento	ories:	
DSL	:	All components of	f this product are on	the Canadian DSL	
TSCA	:		tances in this produc CA Inventory or are in exemption.		

SECTION 16. OTHER INFORMATION

Further information



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NFP	NFPA 704:		HMIS® IV:			
	Flammability		HEALTH			
	1	,	FLAMMABILITY			
Hea	lith 2 1	Instability	PHYSICAL HAZARD			
	Special hazard		HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal haz- ards or risks, and 4 representing signifi- cant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.			
Full text of other abbreviation 29 CFR 1910.1000 (Table Z-		ons				
		: OSHA - Table	OSHA - Table Z-1-A (29 CFR 1910.1000)			
1-A) 29 CI	-R 1910.1000 (Table Z-	: OSHA - Table	OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR 1910.1000 USA. ACGIH Threshold Limit Values (TLV) American Conference of Governmental Industrial Hygienists - threshold limit values (US) NIOSH Pocket Guide to Chemical Hazards (US) USA. NIOSH Recommended Exposure Limits			
1)						
ACGI ACGI	HTLV	: American Co				
NIOS	H H REL	: NIOSH Pocke				
OSH/			- TABLE Z-1 Limits for Air Contaminants -			
	N 7 1	1910.1000	ntional Exposure Limite (OSUA) Table 7.4 Lim			
OSH	ת ∠-1	its for Air Cor	ational Exposure Limits (OSHA) - Table Z-1 Lim- ntaminants			
	FR 1910.1000 (Table Z-	: Ceiling Limit	Value:			
1-A) / 29 CF 1) / C	R 1910.1000 (Table Z-	: Ceiling Limit	Value:			
	H / TWA		weighted average			
	HTLV / TWA value		ed Average (TWA):			
	H / Ceil_Time H / REL value		Value and Time Period (if specified): ed exposure limit (REL):			
	H REL / TWA	: Time-weighte	ed exposure infin (KEL). ed average concentration for up to a 10-hour ng a 40-hour workweek			
NIOS	HREL/C		not be exceeded at any time.			
OSH	A P0 / C	: Ceiling limit	······ , ······			
OSH/	A Z-1 / C	: Ceiling				

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely



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Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

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