Printing date 06/06/2017

Reviewed on 06/06/2017

1 Identification		
Product identifier Trade name:	K-Bond Acrylic Penetrating	
 Article number: CAS Number: EC number: Index number: Application of the substance / the 	Ac Pe 80-62-6 201-297-1 607-035-00-6	
mixture	Acrylic resin	
 Details of the supplier of the sa Manufacturer/Supplier: 	afety data sheet InnoChem LLC 4030 Pleasantdale Road Suite F Doraville, GA 30340	Phone: 770-409-8789 Fax: 770-409-9096 e-mail info@innochemllc.com
 Information department: Emergency telephone number: 	Laboratory Refer to Manufacturer / Supplier	
2 Hazard(s) identification		
· Classification of the substance	or mixture	
GHS02 Flame		
Flam. Liq. 2 H225 Highly flamm	hable liquid and vapor	
GHS07		
Skin Irrit. 2 H315 Causes skin		
Skin Sens. 1 H317 May cause a	0	
STOT SE 3 H335 May cause re	espiratory irritation.	
 Label elements GHS label elements 	The substance is classified and labeled System (GHS).	according to the Globally Harmonized
 Hazard pictograms 		
	GHŜ02 GHŜ07	
· Signal word	Danger	
 Hazard-determining components of labeling: Hazard statements 	methyl methacrylate H225 Highly flammable liquid and vapor. H315 Causes skin irritation. H317 May cause an allergic skin reaction H335 May cause respiratory irritation.	1.
Precautionary statements	P210 Keep away from hear smoking.	t/sparks/open flames/hot surfaces. No
	P261 Avoid breathing vapou P271 Use only outdoors or i	urs. in a well-ventilated area.
	P280 Wear protective glove	
	P303+P361+P353 If on skin (or hair): T clothing. Rinse skin w	Take off immediately all contaminated ith water/shower.
	P312 Call a POISON CENT	ER/doctor if you feel unwell

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Trade name: K-Bond Acrylic Penetra	ating
	(Contd. of page 1)
	P501 Dispose of contents/container in accordance with local/ regional/national/international regulations.
Classification system:	
 NFPA ratings (scale 0 - 4) 	Health = 1
	Fire = 3 Reactivity = 0
 HMIS-ratings (scale 0 - 4) 	HEALTH 1 Health = 1
	FIRE 3 Fire = 3 Reactivity = 0
	REACTIVITY 0 REACTIVITY = 0
• Other hazards	
 Results of PBT and vPvB assessm PBT: 	Not applicable.
· vPvB:	Not applicable.
<u></u>	
3 Composition/information on ing	redients
<u>Chemical characterization: Subs</u>	
• CAS No. Description	80-62-6 methyl methacrylate
 Identification number(s) EC number: 	201-297-1
· Index number:	607-035-00-6
Dangerous components:	Void
4 First-aid measures	
 Description of first aid measures 	6
After inhalation:	Supply fresh air and to be sure call for a doctor.
	In case of unconsciousness place patient stably in side position for
After skin contact:	transportation.
After eye contact:	Immediately wash with water and soap and rinse thoroughly. Rinse opened eye for several minutes under running water.
After swallowing:	If symptoms persist consult doctor.
Information for doctor:	
 Most important symptoms and 	
effects, both acute and delayed	No further relevant information available.
Indication of any immediate	
medical attention and special treatment needed	No further relevant information available.
realment needed	
5 Fire-fighting measures	
 Extinguishing media 	
Suitable extinguishing agents:	CO2, sand, extinguishing powder. Do not use water.
For safety reasons unsuitable	Matan
extinguishing agents:	Water Water with full jet
· Special hazards arising from the	
substance or mixture	No further relevant information available.
· Advice for firefighters	
Protective equipment:	No special measures required.
6 Accidental release measures	
· Personal precautions, protective	
equipment and emergency	
procedures	Wear protective equipment. Keep unprotected persons away.
	(Contd. on page 3)

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Trade name: K-Bond Acrylic Penetrating		
· Environmental precautions:	Do not allow product to reach sewage system or any water course. Prevent seepage into sewage system, workpits and cellars. Inform respective authorities in case of seepage into water cours system. Do not allow to enter sewers/ surface or ground water.	Contd. of page 2) Se Or sewage
 Methods and material for containment and cleaning up: Reference to other sections Protective Action Criteria for Chemical Science (Content of the section) 	Absorb with liquid-binding material (sand, diatomite, acid binder binders, sawdust). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	ers, universal
• <u>PAC-1:</u>		
80-62-6 methyl methacrylate		17 ppm
90-72-2 2,4,6-tris(dimethylaminor	nethyl)phenol	6.5 mg/m3
· PAC-2:		
80-62-6 methyl methacrylate		120 ppm
90-72-2 2,4,6-tris(dimethylaminom	nethyl)phenol	72 mg/m3
· PAC-3:		
80-62-6 methyl methacrylate		570 ppm
90-72-2 2,4,6-tris(dimethylaminor	nethyl)phenol	430 mg/m3
 7 Handling and storage <u>Handling:</u> Precautions for safe handling <u>Information about protection</u> against explosions and fires: 	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Keep ignition sources away - Do not smoke. Protect against electrostatic charges.	
Conditions for safe storage, incl	uding any incompatibilities	
 Storage: Requirements to be met by storerooms and receptacles: Information about storage in one common storage facility: Further information about storage conditions: Specific end use(s) 	Store in a cool location. Not required. Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. No further relevant information available.	
8 Exposure controls/personal prot	tection	
 Additional information about design of technical systems: 	No further data; see item 7.	
 <u>Control parameters</u> <u>Components with limit values that</u> require monitoring at the workplace: 	The following constituent is the only constituent of the product whic TLV or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits (C	

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Trade name: K-Bond Acrylic Penetrating

Trade fiame. R-Bond Actylic Penetr	ating
	(Contd. of page 3)
80-62-6 methyl methacrylate	
PEL Long-term value: 410 mg/m ³	, 100 ppm
REL Long-term value: 410 mg/m ³	, 100 ppm
TLV Short-term value: 410 mg/m ³	, 100 ppm
Long-term value: 205 mg/m ³	. 50 ppm
DSEN	
 Additional information: 	The lists that were valid during the creation were used as basis.
· Exposure controls	
 Personal protective equipment: 	
 General protective and hygienic 	
measures:	Keep away from foodstuffs, beverages and feed.
	Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
	Avoid contact with the skin.
	Avoid contact with the eyes and skin.
 Breathing equipment: 	In case of brief exposure or low pollution use respiratory filter device. In case of
	intensive or longer exposure use respiratory protective device that is
Ducto stice, of how do.	independent of circulating air.
Protection of hands:	Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics.
	Skin protection agent recommendation for preventive skin shelter without use of
	protective gloves
	ARRETIL (http://www.stoko.com)
	Skin protection agent recommendation for preventive skin shelter in application
	and combination of protective gloves:
	STOKO EMULSION (http://www.stoko.com) Skin protection recommendation for skin cleaning after product handling:
	SLIG SPEZIAL (http://www.stoko.com)
	Skin protection agent recommendation for skin aftercare:
	STOKO VITAN (http://www.stoko.com)
	in the second
	Protective gloves
	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
	Selection of the glove material on consideration of the penetration
	times, rates of diffusion and the degradation
	The protection gloves to be used have to comply with the
	specifications of the directive 89/686/EC and the directive derived
	decree EN374, respectively, e.g. the above listed protection glove
	type. The mentioned permeation times data were generated and verified with material samples of the recommended protection glove
	type in the scope of laboratory anylyses of the company KCL GmbH in
	compliance with EN374.
	This recommendation refers exclusively to the material safety data
	sheet referenced product delivered by Akemi and the indicated field of
	application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation
	the producer of CE-approved protection gloves must be contacted for
	detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell,
	internet: http://www.kcl.de).
 Material of gloves 	Butyl rubber, BR
	The selection of the suitable gloves does not only depend on the material, but
· Penetration time of glove material	also on further marks of quality and varies from manufacturer to manufacturer. The exact break trough time has to be found out by the manufacturer of the
	protective gloves and has to be observed.
	(Contd. on page 5)

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Trade name: K-Bond Acrylic Penetrating		
• For the permanent contact gloves	Value for the permeation: Level \leq 2, 60 min	(Contd. of page 4)
made of the following materials are suitable:	Butyl rubber, BR Butoject (KCL, Art_No. 897, 898)	
 As protection from splashes gloves made of the following materials are 		
<u>suitable:</u>	Butyl rubber, BR Butoject (KCL, Art_No. 897, 898) Fluorocarbon rubber (Viton) Vitoject (KCL, Art_No. 890)	
Not suitable are gloves made of the following materials:	Leather gloves Strong gloves Natural rubber, NR	
• Eye protection:	Tightly sealed goggles	

9 Physical and chemical properties

Information on basic physical a	nd chemical properties
General Information Appearance:	
Form:	Fluid
Color:	Colorless
· <u>Odor:</u>	Acrid
· <u>pH-value:</u>	Not determined.
<u>Change in condition</u>	
Melting point/Melting range:	-48 °C (-54 °F)
Boiling point/Boiling range:	101 °C (214 °F)
• <u>Flash point:</u>	10 °C (50 °F)
 Ignition temperature: 	430 °C (806 °F)
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:	
Lower:	2.1 Vol %
Upper:	12.5 Vol %
· Vapor pressure at 20 °C (68 °F):	47 hPa (35 mm Hg)
 Density at 20 °C (68 °F): 	0.97 g/cm³ (8.095 lbs/gal)
 Specific gravity at 20 °C (68 °F): 	0.94 g/cm³ (7.844 lbs/gal)
 Solubility in / Miscibility with 	
Water at 20 °C (68 °F):	1.6 g/l
 <u>Viscosity:</u> 	
Dynamic:	Not determined.
Kinematic:	Not determined.
Organic solvents:	98.7 %
Solids content:	0.2 %
Other information	No further relevant information available.
	(Contd. on page 6)
	- US

Safety Data Sheet

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Trade name: K-Bond Acrylic Penetrating

	(Conta.	. of page 3)
10 Stability and reactivity		
 <u>Reactivity</u> <u>Chemical stability</u> 	No further relevant information available.	
 Thermal decomposition / conditions to be avoided: Possibility of hazardous 	No decomposition if used according to specifications.	
reactions • Conditions to avoid • Incompatible materials:	No dangerous reactions known. No further relevant information available. No further relevant information available.	
Hazardous decomposition products:	No dangerous decomposition products known.	
11 Toxicological information		
 Information on toxicological e Acute toxicity: 	effects	
LD/LC50 values that are relevant	nt for classification:	
ATE (Acute Toxicity Estimate))	
Oral LD50 6036 mg/k	kg (rat)	
Inhalative LC50/4 h 30.2 mg/l	(rat)	
80-62-6 methyl methacrylate		
Oral LD50 7872 mg/k	kg (rat) (OECD 401)	
Dermal LD50 > 5000 mg	g/kg (rabbit)	
Inhalative LC50/4 h 29.8 mg/l	(rat)	
Primary irritant effect:		
• on the skin:	Irritant to skin and mucous membranes.	
 on the eye: Sensitization: 	No irritating effect. Sensitization possible through skin contact.	
Additional toxicological informat		
Carcinogenic categories		
IARC (International Agency for I	Research on Cancer)	
		3
NTP (National Toxicology Progr	am)	"
Substance is not listed.		
OSHA-Ca (Occupational Safety & Health Administration)		
Substance is not listed.		
12 Ecological information		
-		
· <u>Toxicity</u> · Aquatic toxicity:		
80-62-6 methyl methacrylate		

EC50/48h	69 mg/l (daphnia magna) (OECD 202)

EC0 100 mg/l (pseudomonas putida)

NOEC 9.4 mg/kg (Danio rerio.) (OECD 210)

NOEC/21d 37 mg/l (daphnia magna) (OECD 202)

EC50/72h >110 mg/l (Selenastrum capricornutum)

LC50/96h > 79 mg/l (Oncorhynchus mykiss) (OECD 203)

• **Persistence and degradability** No further relevant information available.

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	(Contd. of page 6)
Behavior in environmental sys	
Bioaccumulative potential	No further relevant information available.
• Mobility in soil	No further relevant information available.
Additional ecological informat General notes:	Water hazard class 1 (Assessment by list): slightly hazardous for water
· Results of PBT and vPvB asse	
· PBT:	Not applicable.
• vPvB:	Not applicable.
• Other adverse effects	No further relevant information available.
13 Disposal considerations	
· Waste treatment methods	
• Recommendation:	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
· Uncleaned packagings:	
Recommendation:	Disposal must be made according to official regulations.
14 Transport information	
· <u>UN-Number</u> · DOT, ADR, IMDG, IATA	UN1866
• UN proper shipping name	Pooin colution
· <u>DOT</u> · ADR	Resin solution
· IMDG, IATA	1866 Resin solution, special provision 640D RESIN SOLUTION
 Transport hazard class(es) 	
· DOT	
PL/MM/BLE LIQUD	
· Class	3 Flammable liquids
· Label	3
· <u>ADR</u>	
· Class	3 (F1) Flammable liquids
- Label	3
· IMDG, IATA	
3	
Close	2 Elemmoble liquide
	3 Flammable liquids
· Label	3
 Packing group 	
· DOT, ADR, IMDG, IATA	II
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	(Contd. of pag
Environmental hazards:	N -
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	33
EMS Number: Stowage Category	F-E, <u>S-E</u> B
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1866 RESIN SOLUTION, SPECIAL PROVISION 640D, 3, II
Safety, health and environmental regu	lations/legislation specific for the substance or mixture
Safety, health and environmental regu	
Safety, health and environmental regu Sara Section 355 (extremely hazardous substa	
Safety, health and environmental regu Sara Section 355 (extremely hazardous substa Substance is not listed.	ances):
Safety, health and environmental regu Sara Section 355 (extremely hazardous substa Substance is not listed. Section 313 (Specific toxic chemical listin	ances):
Safety, health and environmental regu Sara Section 355 (extremely hazardous substa Substance is not listed. Section 313 (Specific toxic chemical listin 80-62-6 methyl methacrylate	ances):
Safety, health and environmental regu Sara Section 355 (extremely hazardous substa Substance is not listed. Section 313 (Specific toxic chemical listin 80-62-6 methyl methacrylate TSCA (Toxic Substances Control Act):	ances):
Safety, health and environmental regu Sara Section 355 (extremely hazardous substa Substance is not listed. Section 313 (Specific toxic chemical listin 80-62-6 methyl methacrylate TSCA (Toxic Substances Control Act): Substance is listed.	ances):
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Safety, health and environmental regu Sara Section 355 (extremely hazardous substate Substance is not listed. Section 313 (Specific toxic chemical listin 80-62-6 methyl methacrylate TSCA (Toxic Substances Control Act): Substance is listed. Proposition 65 Chemicals known to cause cancer:	ances):
Safety, health and environmental regu Sara Section 355 (extremely hazardous substate Substance is not listed. Section 313 (Specific toxic chemical listin 80-62-6 methyl methacrylate TSCA (Toxic Substances Control Act): Substance is listed. Proposition 65 Chemicals known to cause cancer:	ances):
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Safety, health and environmental regunation Sara Section 355 (extremely hazardous substated) Substance is not listed. Section 313 (Specific toxic chemical listing) 80-62-6 methyl methacrylate TSCA (Toxic Substances Control Act): Substance is listed. Proposition 65 Chemicals known to cause cancer: Substance is not listed. Chemicals known to cause reproductive Substance is not listed.	ances): ngs): toxicity for females:
Safety, health and environmental regu Sara Section 355 (extremely hazardous substa Substance is not listed. Section 313 (Specific toxic chemical listin 80-62-6 methyl methacrylate TSCA (Toxic Substances Control Act): Substance is listed. Proposition 65 Chemicals known to cause cancer: Substance is not listed. Chemicals known to cause reproductive Substance is not listed. Chemicals known to cause reproductive	ances): ngs): toxicity for females: toxicity for males:
Safety, health and environmental regunation Sara Section 355 (extremely hazardous substated) Substance is not listed. Section 313 (Specific toxic chemical listin 80-62-6 methyl methacrylate TSCA (Toxic Substances Control Act): Substance is listed. Proposition 65 Chemicals known to cause cancer: Substance is not listed. Chemicals known to cause reproductive Substance is not listed. Chemicals known to cause reproductive Substance is not listed. Chemicals known to cause reproductive Substance is not listed. Chemicals known to cause reproductive Substance is not listed. Chemicals known to cause reproductive Substance is not listed.	ances): ngs): toxicity for females: toxicity for males: toxicity for males:
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Trade name: K-Bond Acrylic Penetrating		
	(Contd. of page 8)	
· MAK (German Maximum Workplace	ce Concentration)	
Substance is not listed.		
· NIOSH-Ca (National Institute for O	ccupational Safety and Health)	
Substance is not listed.		
· GHS label elements	The substance is classified and labeled according to the Globally Harmonized System (GHS).	
Hazard pictograms	GHS02 GHS07	
 Signal word 	Danger	
 Hazard-determining components of labeling: Hazard statements 	methyl methacrylate H225 Highly flammable liquid and vapor. H315 Causes skin irritation. H317 May cause an allergic skin reaction.	
 Precautionary statements 	 H335 May cause respiratory irritation. P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261 Avoid breathing vapours. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves / eye protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P312 Call a POISON CENTER/doctor if you feel unwell. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. 	
National regulations:		
Water hazard class:	Water hazard class 1 (Assessment by list): slightly hazardous for water.	
 VOC USA Chemical safety assessment: 	958.4 g/l / 8.00 lb/gl A Chemical Safety Assessment has not been carried out.	
	 bresent knowledge. However, this shall not constitute a guarantee for any specific ablish a legally valid contractual relationship. Laboratory Dieter Zimmermann 06/06/2017 / 4 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) 	

HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent

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Trade name: K-Bond Acrylic Penetrating

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit	(Contd. of page 9)	
REL: Recommended Exposure Limit Flam. Lig. 2: Flammable liguids – Category 2		
Skin Irrit. 2: Skin corrosion/irritation – Category 2		
Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3		
	US	J .