

Printing date 10/09/2018

1 Identification

· Product identifier

- · Trade name: ALT Primer 276K
- · Article number: 113-020-005U
- · Application of the substance / the mixture Priming
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

ALT Global, LLC 12 Dwight Place Fairfield, NJ 07004 USA Tel.: +1 973-287-6158 Fax: +1 973-287-6168 Internet: www.altglobal.com

· Information department:

Division product safety Mr. Bonyadlou Tel.: +1 973-287-6158 E-Mail: mbonyadlou@altglobal.com • Emergency telephone number:

For Chemical Emergency Spill Leak Fire Exposure or Accident Call CHEMTREC Day or Night

DOMESTIC NORTH AMERICA 800-424-9300

2 Hazard(s) identification

· Classification of the substance or mixture

GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



· Signal word Danger

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 Hazard-detern methyl methac Bisphenol-A-ep 	
	I propoxylated diacrylate
Hazard statem	
	Immable liquid and vapor.
H315 Causes s	
	serious eye irritation.
	se an allergic skin reaction.
	se respiratory irritation.
· Precautionary	statements
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P261	Avoid breathing vapours.
P280	Wear protective gloves/ eye protection.
P303+P361+P3	353 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.
P403+P235	Store in a well-ventilated place. Keep cool.
 Classification 	system:
· NFPA ratings	(scale 0 - 4)

Safety Data Sheet acc. to OSHA HCS



· HMIS-ratings (scale 0 - 4)



· Other hazards

- · Results of PBT and vPvB assessment
- · PBT: Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).
- · vPvB: Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

 Dangerous components: 		
CAS: 25068-38-6 Index number: 603-074-00-8	Bisphenol-A-epichlorohydrin	25-50%
CAS: 80-62-6 Index number: 607-035-00-6	methyl methacrylate	25-50%
CAS: 84170-74-1	Neopentylglycol propoxylated diacrylate	≥0.1-≤0.5%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product. Take affected persons out of danger area and lay down. Involve doctor immediately.



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 After inhalation: In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep quiet. Seek medical treatment. After ckin contract:

After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed Headache Dizziness Skin sensitization.

Irritant to skin, eyes and respiratory system.

· Indication of any immediate medical attention and special treatment needed

After inhalation, even in the absence of signs of disease, inhaled corticosteroid (eg Ventolair) give.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO₂, sand, extinguishing powder, foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture Can form explosive gas-air mixtures.
 Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released: Carbon monoxide (CO) Nitrogen oxides (NOx)
 Vapours are heavier than air. Crawling vapors can result in greater distance from the ignition!
- Advice for firefighters
- Protective equipment:
- Wear fully protective suit.

Wear self-contained respiratory protective device.

Additional information
 Cool endangered receptacles with water spray.
 Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation



Keep away from ignition sources

Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away.

- Environmental precautions:
- Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

• Methods and material for containment and cleaning up: Do not flush with water or aqueous cleansing agents

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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See Section See Section 8	 other sections 7 for information on safe handling. 3 for information on personal protection equipment. 13 for disposal information. 	
	ction Criteria for Chemicals	
PAC-1:		
80-62-6	methyl methacrylate	17 ppm
112945-52-5	SYNTHETIC AMORPHOUS SILICA	18 mg/m ³
7447-41-8	lithium chloride	2.3 mg/m
111-66-0	oct-1-ene	40 ppm
67-68-5	dimethyl sulfoxide	150 ppm
PAC-2:	·	
80-62-6	methyl methacrylate	120 ppm
112945-52-5	SYNTHETIC AMORPHOUS SILICA	100 mg/m
7447-41-8	lithium chloride	25 mg/m³
111-66-0	oct-1-ene	800* ppm
67-68-5	dimethyl sulfoxide	290 ppm
PAC-3:	·	
80-62-6	methyl methacrylate	570 ppm
112945-52-5	SYNTHETIC AMORPHOUS SILICA	630 mg/m
7447-41-8	lithium chloride	150 mg/m
111-66-0	oct-1-ene	2000* ppm
67-68-5	dimethyl sulfoxide	1,800 ppm

7 Handling and storage

· Handling:

· Precautions for safe handling

Cool down container when heated. Cool containers exposed to heat with water. Emergency cooling must be provided in the event of an ambient fire. Keep container tightly closed to prevent heat build up (pressure increase). Avoid heat.

Do not refill residue into storage receptacles.

Ensure good ventilation/exhaustion at the workplace.

at least 7-fold air changes per hour

Prevent formation of aerosols.

 Information about protection against explosions and fires: Highly volatile, flammable constituents are released during processing. Keep ignition sources away - Do not smoke. Fumes can combine with air to form an explosive mixture. Only explosion-proof equipment. Protect against electrostatic charges. Protect from heat.
 Conditions for safe storage, including any incompatibilities

- Storage:
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle. Store in a cool location.
- Information about storage in one common storage facility: Store away from oxidizing agents. Store away from foodstuffs.

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· Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Storage in a collecting room is required. Store under lock and key and with access restricted to technical experts or their assistants only. max. Storage temperature 30 ° C Keep receptacle tightly sealed. Protect from heat and direct sunlight. Specific end use(s) Building coating or sealing.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

80-62-6 methyl methacrylate (25-50%)			
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		
112945-52-5 SYNTHETIC AMORPHOUS SILICA (2.5-10%)			
OSHA PEL	Short-term value: 15 mg/m ³ Long-term value: 5 mg/m ³		
TLV-TWA	Short-term value: 10 mg/m ³ Long-term value: 3 mg/m ³ ACGIH		

· Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Avoid contact with the eyes and skin. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Keep away from foodstuffs, beverages and feed. Do not inhale gases / fumes / aerosols. Breathing equipment:
- Ensure good ventilation.

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 independent of circulating air.

· Protection of hands:



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

Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics.

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Check protective gloves prior to each use for their proper condition. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

· Material of gloves

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 can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

Our Recommendation is mainly on a one-time use as a short-term protection Liquid splashes. For other applications, you should contact a glove manufacturer.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable: Butyl rubber, BR
- For the permanent contact gloves made of the following materials are suitable: Butyl rubber, BR
- · Not suitable are gloves made of the following materials: Leather gloves
- · Eye protection:



Tightly sealed goggles

· Body protection:



Protective work clothing

9 Physical and chemical properties

 Information on basic physical and General Information 	chemical properties
· Appearance:	
Form:	Pasty
Color:	Unpigmentiert
· Odor:	Ester-like
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	101 °C (213.8 °F) (MMA)
· Flash point:	13 °C (55.4 °F) (DIN EN ISO 3680)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	430 °C (806 °F) (MMA)
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
· Explosion limits:	
Lower:	1.7 Vol % (MMA)
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Upper:	12.5 Vol % (MMA)	
· Vapor pressure at 20 °C (68 °F):	38.7 hPa (29 mm Hg) (MMA)	
 Density at 20 °C (68 °F): Evaporation rate 	1.14 g/cm³ (9.51 lbs/gal) (EN ISO 2811-1) Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/w	ater): log Pow: 1,38 (MMA)	
· Viscosity:		
Dynamic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	66.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity see Section 10.2
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Exothermic reaction.

Reacts with peroxides and other radical forming substances.

A hazardous polymerization may occur after the exhaustion of the inhibitor.

- · Conditions to avoid Avoid heat. Avoid direct sunlight.
- · Incompatible materials: Heftige Reaktionen mit Peroxiden und anderen Reduktionsmittel
- Hazardous decomposition products:
- No dangerous decomposition prodocts used accordind to specifications.
- Additional information:

Emergency procedures will vary depending on individual circumstances. The customer should have a contingency plan to the workplace may be present.

11 Toxicological information

· Information on toxicological effects There were no toxicological findings to the mixture.

- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:
- ATE (Acute Toxicity Estimate)
- DermalLD50>58,367 mg/kg (rabbit)InhalativeLC50/4h86.8 mg/l (rat)

Oral	LD50	>5,000 mg/kg (rat)
80-62-6 m	nethyl me	thacrylate
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
	NOAEL	2,000 ppm (rat) drinking water, 6-2000 ppm
		Findings: No toxic effects

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Dermal	LC50	>5,000 mg/kg (rabbit)	
Inhalative	NOAEL	25 ppm (rat)	
		25 - 400 ppm	
		Findings: Damage to mucous membranes in the nose at 400 ppm	
		29.8 mg/l (rat)	
	-	ntylglycol propoxylated diacrylate	
Dermal	LD50	>2,000 mg/kg (rat)	
· Primary ir			
		to skin and mucous membranes.	
		irritant with the danger of severe eye injury.	
		sitization possible through skin contact. (about experimental toxicology):	
		por pressure is a harmful concentration in the air quickly been reache	ad At hic
concentrat	tions can	occur narcotic effect.	u. At me
		ic toxicity: not tested	
		ogical information:	
		s the following dangers according to internally approved calculation m	ethods for
preparatio			
Irritant			
· Carcinoge	enic cate	gories	
· IARC (Inte	ernationa	I Agency for Research on Cancer)	
80-62-6	methyl me	ethacrylate	3
128-37-0	Butylated	hydroxytoluene	3
· NTP (Nati	onal Tox	icology Program)	
None of th	e ingredie	ents is listed.	
· OSHA-Ca	(Occupa	tional Safety & Health Administration)	
None of th	e ingredie	ents is listed.	
2 Ecologi	cal info	mation	
· Toxicity			
80-62-6 m	ethyl me	thacrylate	
EC3/16h	100 ma/l (Pseudomonas putida) (Cell proliferation inhibition test Bringmann-Kühn)	

EC3/16h 100 mg/l (Pseudomonas putida) (Cell proliferation inhibition test, Bringmann-Kühn)

· Aquatic toxicity:

25068-38-6 Bisphenol-A-epichlorohydrin			
EC50/48h (static)	EC50/48h (static) 1.7 mg/l (daphnia magna) (OECD 202, Acute Immobilisation Test)		
LC50/96h (static)	1.5 mg/l (fish) (OECD 203, Acute Toxicity Test)		
NOEC/21d	0.3 mg/l (daphnia magna) (OECD 211, Reproduction Test)		
EC50/72h (static)	9.4 mg/l (Alge (Desmodesmus subspicatus))		
80-62-6 methyl m	nethacrylate		
EC50/48h	69 mg/l (daphnia magna) (OECD 202)		
LC50/96h	>79 mg/l (Rainbow trout) (OECD 203)		
ErC50/72h	>110 mg/l (Pseudokirchneriella subcapitata) (OECD 201)		
NOEC/72h	>110 mg/l (Selenastrum capricornutum) (OECD 201)		
EC50/72h	>110 mg/l (Selenastrum capricornutum) (OECD 201)		
NOEC	9.4 mg/l (Danio rerio) (OECD 210) fish early life stage test, 35 days		

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		(Contd. of page 8)
	37 mg/l (daphnia magna) (OECD 211) 21 days	
84170-74-1 Ne	eopentylglycol propoxylated diacrylate	
EC50/48h	37 mg/l (daphnia magna)	
LC50/96h	2.7 mg/l (Brachydanio rerio)	
NOEC/72h	1 mg/l (Pseudokirchneriella subcapitata)	
EC50/72h	3.4 mg/l (alga)	
NOEC	25.3 mg/l (daphnia magna) (48 h)	
Densistence -	n al ala anna al a la Státa. E a a tha bha al a anna al a bha	

Persistence and degradability Easily biodegradable

 \cdot Other information: The product is easily biodegradable.

 \cdot Behavior in environmental systems:

· Bioaccumulative potential No further relevant information available.

· Mobility in soil

MMA: A binding to the solid phase of soil, sediment and sewage sludge is not expected. From the water surface the substance is slowly evaporated into the atmosphere. Where the substance into the environment he verleibt preferably in the compartment into which it has emerged.

- · Additional ecological information:
- · BSB5-value: 0.14 g/g (MMA)

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · PBT: Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).
- · vPvB: Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

Hazardous waste according to Waste Catalogue (EWC). If recycling is not possible, waste must be in compliance with local regulations to be removed.

· Recommendation:



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncured product residues are special waste. Cured product residues are not hazardous waste.

· Uncleaned packagings:

· Recommendation:

This material and its container must be disposed of as hazardous waste. Disposal must be made according to official regulations.

14 Transport information		
· UN-Number · DOT, ADR, IMDG, IATA	UN1263	
· UN proper shipping name		
· DOT	Paint	
· ADR	1263 Paint	
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· IMDG, IATA	PAINT
· Transport hazard class(es)	
DOT	
2 AMAGE 9 1027	
· Class · Label	3 Flammable liquids 3
· ADR, IMDG, IATA	
· Class · Label	3 Flammable liquids 3
· Packing group · DOT, ADR, IMDG, IATA	111
· Environmental hazards: · Marine pollutant:	No
 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category 	Warning: Flammable liquids 33 F-E, <u>S-E</u> A
 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code 	of Not applicable.
· Transport/Additional information:	
ADR	
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Remarks:	Classification according to viscosity clause (2.2.3.1.4) > 450 litres Packing group II
·IMDG	· · · · · · · · · · · · · · · · · · ·
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Remarks:	Classification according to viscosity clause (2.3.2.3) > 30 litres Packing group II
· UN "Model Regulation":	UN 1263 PAINT, 3, III

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15 Regulatory information

\cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara	•	
 Section 355 (extremely hazardous substances): 		
None of the ingredient is listed.		
· Section 313 (Specific toxic chemical listings):		
80-62-6 methyl methacrylate		
TSCA (Toxic Substances Control Act):		
80-62-6 methyl methacrylate		
8002-74-2 Paraffin waxes and Hydrocarbon waxes		
1189-08-8 BDDMA		
84170-74-1 Neopentylglycol propoxylated diacrylate		
128-37-0 Butylated hydroxytoluene		
7447-41-8 lithium chloride		
111-66-0 oct-1-ene		
67-68-5 dimethyl sulfoxide		
 TSCA new (21st Century Act) (Substances not listed) 		
25068-38-6 Bisphenol-A-epichlorohydrin		
112945-52-5 SYNTHETIC AMORPHOUS SILICA		
· Proposition 65		
· Chemicals known to cause cancer:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)			
80-62-6 methyl methacrylate	E, NL		
 TLV (Threshold Limit Value established by ACGIH) 			
80-62-6 methyl methacrylate	A4		
128-37-0 Butylated hydroxytoluene	A4		
· NIOSH-Ca (National Institute for Occupational Safety and Health)			
None of the ingredients is listed.			

· National regulations:

Information about limitation of use:
 Employment restrictions concerning young persons must be observed.
 Employment restrictions concerning pregnant and lactating women must be observed.

 \cdot Chemical safety assessment: A Chemical Safety Assessment has not been carried out.



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16 Other information

These figures relate to the product as delivered.

Sector of Use

Relevant identified uses of the mixture

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU19 Building and construction work

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

SU21 Consumer uses: Private households / general public / consumers

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Training hints

Teaching about hazards and precautions to hand the operating instructions (Technical Rule 555). Instruction must take place before the start of employment and at least annually thereafter.

- Date of preparation / last revision 10/09/2018 / 20
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation

- 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 Transportation
- IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, ÉU)
- LC50: Lethal concentration, 50 percent
- 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
- Flam. Liq. 2: Flammable liquids Category 2
- Skin Irrit. 2: Skin corrosion/irritation Category 2
- Eye Irrit. 2A: Serious eye damage/eye irritation Category 2A
- Skin Sens. 1: Skin sensitisation Category 1
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3

Sources

www.gestis.de www.echa.eu

logkow.cisti.nrc.ca

• * Data compared to the previous version altered.

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