Printing date 10/27/2010

Reviewed on 10/27/2010

1 Identification of substance:

- · Product details:
- Trade name: Epoxy.com #699
- · Application of the substance / the preparation Coating
- Manufacturer/Supplier: Epoxy Systems, Inc.
 20774 West Pennsylvania Ave Dunnellon, FL 34431

Tel.: 352-489-1666

- · K. Fontaine
- Emergency information: 800-633-82530

2 Composition/Data on components:

- · Chemical characterization
- · **Description:** methyl methacrylate resin
- · Dangerous components:

· Dungerous compone	enis.		
CAS: 80-62-6 EINECS: 201-297-1	methyl methacrylate	🗙 Xi, 🍺 F; R 11-37/38-43	50-100%
CAS: 28052-41-3 EINECS: 232-489-3	Stoddard-Lösungsmittel	🗙 Xn, 🌄 N; R 10-51/53-65-66	< 2.5%
CAS: 123-81-9 EINECS: 204-653-4	ethylene di(S-thioacetate)	₩ T, ₩ N; R 23/24/25-36/38-51/53	< 2.5%
		6 16	

• Additional information For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

• Hazard description:



Xi Irritant F Highly flammable

- · Information pertaining to particular dangers for man and environment
- R 11 Highly flammable.
- R 37/38 Irritating to respiratory system and skin.
- *R* 43 May cause sensitization by skin contact.
- · Classification system

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

· NFPA ratings (scale 0-4)



Health = 1 Fire = 3 Reactivity = 0

4 First aid measures

- · General information Immediately remove any clothing soiled by the product.
- After inhalation
- Take affected persons into fresh air and keep quiet.
- Seek medical treatment in case of complaints.
- · After skin contact
- Immediately wash with water and soap and rinse thoroughly.

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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 Seek immediate medical advice.
- · Information for doctor No particular measures are known treat according to symptoms.
- · The following symptoms may occur: Headache

5 Fire fighting measures

- Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents Water.
- · Special hazards caused by the material, its products of combustion or resulting gases:
- Formation of toxic gases is possible during heating or in case of fire.

· Protective equipment: Do not inhale explosion gases or combustion gases.

6 Accidental release measures

· Person-related safety precautions: Ensure adequate ventilation

- · Measures for environmental protection: Prevent seepage into sewage system, workpits and cellars.
- Measures for cleaning/collecting:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Collect in a suitable container and dispose of as described at paragraph 13.

7 Handling and storage

· Handling

· Information for safe handling:

Keep receptacles tightly sealed.

- Store in cool, dry place in tightly closed receptacles.
- Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- \cdot Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke.
- Protect against electrostatic charges.
- Fumes can combine with air to form an explosive mixture.
- Flammable gas-air mixtures may be formed in empty receptacles.
- · Storage

• Requirements to be met by storerooms and receptacles:

Store in a cool location.

Keep containers securely closed and dry, store at 5 - 25°C. Store only in the original receptacle.

Provide floor trough without outlet.

- Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions:
- Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Store only outside or in explosion proof rooms.

8 Exposure controls and personal protection

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

(Contd. on page 3)

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Com	(Contd. of page ponents with limit values that require monitoring at the workplace:
	2-6 methyl methacrylate (50-100%)
PEL	410 mg/m ³ , 100 ppm
REL	410 mg/m ³ , 100 ppm
TLV	Short-term value: 410 mg/m³, 100 ppm
	Long-term value: 205 mg/m ³ , 50 ppm SEN
Addi	tional information: The lists that were valid during the creation were used as basis.
Perso	onal protective equipment
	ral protective and hygienic measures
	away from foodstuffs, beverages and feed.
	hands before breaks and at the end of work.
	l contact with the eyes and skin.
	diately remove all soiled and contaminated clothing
	protective clothing separately.
	thing equipment:
	se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposi
use r	espiratory protective device that is independent of circulating air.
Reco	mmended filter device for short term use:
6	Filter AX
Prote	ection of hands:
	Plastic gloves
Only	use chemical-protective gloves with CE-labelling of category III.
	glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selec	ction of the glove material on consideration of the penetration times, rates of diffusion and t adation
	rial of gloves
	rubber, BR
	le rubber, NBR
	mmended thickness of the material: > 0.5 mm
The s	velection of the suitable gloves does not only depend on the material, but also on further marks of qual varies from manufacturer to manufacturer. As the product is a preparation of several substances, tance of the glove material can not be calculated in advance and has therefore to be checked prior to
	cation.
	tration time of glove material
	exact break trough time has to be found out by the manufacturer of the protective gloves and has to
obser	
Not s	otection from splashes gloves made of the following materials are suitable: PVC gloves uitable are gloves made of the following materials: ner gloves
	ier gloves
	protection:
-je p	
6	
0	Tightly sealed goggles.

• **Body protection:** Protective work clothing.

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General Information	
Form:	Fluid
Color:	Whitish
	Transparent
Odor:	Characteristic
Change in condition	
Melting point/Melting range:	undetermined
Boiling point/Boiling range:	101°C (214°F)
Flash point:	10°C (50°F) (DIN 53213)
Ignition temperature:	245°C (473°F)
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	0.8 Vol %
Upper:	12.5 Vol %
Vapor pressure at 25°C (77°F):	47 hPa (35 mm Hg)
Density at 23°C (73°F):	0.99 g/cm3 (DIN 51757)
Solubility in / Miscibility with	
<i>Water at 20</i> • <i>C</i> (68• <i>F</i>):	max 16 g/l
Organic solvents:	Soluble in many organic solvents
Viscosity:	
dynamic at $23^{\circ}C(73^{\circ}F)$:	90-150 mPas (Brookfield)
kinematic at 23°C (73°F):	27-33 s (DIN 53211/4)

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Materials to be avoided: acids strong oxidizing agents
 Dangerous reactions
- Violent reactions with strong alkalis and oxidizing agents Reacts with amines
- Dangerous products of decomposition: in the event of fire: toxic gases and vapours Flammable gases/vapors

/_ ~	icity:		
LD/LC50	values that	are relevant for classification:	
80-62-6 n	iethyl meth	acrylate	
Oral	LD50	> 5000 mg/kg (rat)	
Dermal	LD50	> 5000 mg/kg (rab)	
Inhalative	e LC50/4 h	7093 mg/l (rat)	
123-81-9	ethylene di	(S-thioacetate)	
Oral	LD50	330 mg/kg (rat)	

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· Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• on the eye: No irritating effect.

· Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

12 Ecological information:

· Ecotoxical effects:

80-62-6 Methylmethacrylat

(Literatur)

LC50 Oncorhynchus mykiss >79 mg/l/96h OECD 203/ISO7346/EEC84/449/V,C1 EC50 Daphnia nagna 69 mg/l/48h OECD 202/ISO6341/EEC84/449/V,C2

EC3 Scenedesmus quadricauda 37 mg/l/8d DIN 38412 T.9

EC0 Pseudomos putida 100 mg/l

Not determined

• Acquatic toxicity:	
----------------------	--

80-62-6 met	thyl methacrylate		
BSB5-Wert	0.14 g/g (-)		
EC0	100 mg/l (Pseudomonas putida)		
EC3	(192h) 37 mg/l (Scenedesmus quadicauda)		
EC50	(96h) 170 mg/l (Selenastrum capricornutum)		
	(48h) 69 mg/l (daphnia)		
LC50	350 mg/l (Leuciscus idus)		
LC50 (96h)	>79 mg/l (Onchorhynchus mykiss)		
	232 mg/l (Lepomis macrochirus (Sonnenbarsch))		
	277 mg/l (Goldfisch)		
123-81-9 eth	123-81-9 ethylene di(S-thioacetate)		
LC50(48h)	4.85 mg/l (fish)		

• General notes:

Water hazard class 1 (German Regulation) (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.

13 Disposal considerations

- · Product:
- **Recommendation** Must be specially treated adhering to official regulations.
- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

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USA

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DOT regulations:	
FLAMMABLE LIQUO	
3	
Hazard class:	3
Identification number:	UN1866
Packing group:	II
Proper shipping name (technical name	-
Label	3
Land transport ADR/RID (cross-bord	er)
3	
ADR/RID class:	3 Flammable liquids
Danger code (Kemler):	33
UN-Number:	1866
UN-Number:	1866 II
UN-Number: Packaging group: Description of goods:	II
UN-Number: Packaging group: Description of goods: Maritime transport IMDG:	II 1866 RESIN SOLUTION, special provision 640D
UN-Number: Packaging group: Description of goods: Maritime transport IMDG: IMDG Class:	II 1866 RESIN SOLUTION, special provision 640D
UN-Number: Packaging group: Description of goods: Maritime transport IMDG: IMDG Class: UN Number:	II 1866 RESIN SOLUTION, special provision 640D 3 1866
UN-Number: Packaging group: Description of goods: Maritime transport IMDG: iMDG Class: UN Number: Label	II 1866 RESIN SOLUTION, special provision 640D
UN-Number: Packaging group: Description of goods: Maritime transport IMDG: IMDG Class: UN Number:	II 1866 RESIN SOLUTION, special provision 640D 3 1866 3
UN-Number: Packaging group: Description of goods: Maritime transport IMDG: IMDG Class: UN Number: Label Packaging group:	II 1866 RESIN SOLUTION, special provision 640D 3 1866 3 II F-E,S-E No
UN-Number: Packaging group: Description of goods: Maritime transport IMDG: IMDG Class: UN Number: Label Packaging group: EMS Number:	II 1866 RESIN SOLUTION, special provision 640D 3 1866 3 II F-E,S-E
UN-Number: Packaging group: Description of goods: Maritime transport IMDG: IMDG Class: UN Number: Label Packaging group: EMS Number: Marine pollutant:	II 1866 RESIN SOLUTION, special provision 640D 3 1866 3 II F-E,S-E No RESIN SOLUTION
UN-Number: Packaging group: Description of goods: Maritime transport IMDG:	II 1866 RESIN SOLUTION, special provision 640D 3 1866 3 II F-E,S-E No RESIN SOLUTION
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UN-Number: Packaging group: Description of goods: Maritime transport IMDG:	II 1866 RESIN SOLUTION, special provision 640D 3 1866 3 II F-E,S-E No RESIN SOLUTION R: 3 1866
UN-Number: Packaging group: Description of goods: Maritime transport IMDG:	II 1866 RESIN SOLUTION, special provision 640D 3 1866 3 II F-E,S-E No RESIN SOLUTION R:

15 Regulations

EPA (Envi	ronmental Protection Agency)	
80-62-6 m	ethyl methacrylate	E;N
IARC (Inte	ernational Agency for Research on Cancer)	
80-62-6	methyl methacrylate	
9011-14-7	Acrylglaspulver	
128-37-0	2,6-di-tert-butyl-p-cresol	
		(Contd. on page

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	(Co	ontd. of page 6
· NTP (Na	tional Toxicology Program)	
None of the	he ingredients is listed.	
· TLV (Th	eshold Limit Value established by ACGIH)	
80-62-6	methyl methacrylate	A4
128-37-0	2,6-di-tert-butyl-p-cresol	A4
· MAK (Ge	rman Maximum Workplace Concentration)	I
None of the	he ingredients is listed.	
· NIOSH-C	Ca (National Institute for Occupational Safety and Health)	
None of the	he ingredients is listed.	
· OSHA-C	a (Occupational Safety & Health Administration)	
None of the	he ingredients is listed.	

· Code letter and hazard designation of product:



Xi Irritant F Highly flammable

· Hazard-determining components of labelling: methyl methacrylate

· Risk phrases:

Materials

- Highly flammable. 11
- 37/38 Irritating to respiratory system and skin.
- May cause sensitization by skin contact. 43

· Safety phrases:

- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition No smoking.
- 23 Do not breathe gas/fumes/vapour/spray.
- 24 Avoid contact with skin.
- 33 Take precautionary measures against static discharges.

37 Wear suitable gloves.

43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. 60 This material and its container must be disposed of as hazardous waste.

· National regulations

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

• Sara

· Section 35	5 (Exremely hazardous substances):
None of the	ingredients is listed.
· Section 31	3 (Specific toxic chemical listings):
80-62-6 me	thyl methacrylate
· TSCA (Tox	ic Substances Control Act):
80-62-6	methyl methacrylate
9011-14-7	Acrylglaspulver
2082-81-7	1,4-Butandioldimethacrylat
3077-12-1	2,2'-[(4-methylphenyl)imino]bisethanol
2440-22-4	2-(2H-Benotriazol-2-yl)-p-kresol
123-81-9	ethylene di(S-thioacetate)
31570-04-4	Tris(2,4-di-tert-butylphenyl)phosphit
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· Chemicals known to cause cancer:

None of the ingredients is listed.

16 Other information:

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.

- · Relevant R-phrases
- 10 Flammable.
- *Highly flammable.*
- 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- 36/38 Irritating to eyes and skin.
- 37/38 Irritating to respiratory system and skin.
- 43 May cause sensitization by skin contact.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- 65 *Harmful: may cause lung damage if swallowed.*
- 66 Repeated exposure may cause skin dryness or cracking

USA