SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Print Date: 18.09.2017 **Version Number:** 36 **Revision:** 01.09.2017

· **1.1 Product identifier**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against** See Section 16

· **Application of the substance / the mixture** Priming

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Cactus Industrial Limited
Unit 11, Block 6 Trading Estate, Third Road,
Blantyre Industrial Estate
Blantyre
Scotland
G72 0UP
www.cactusindustrial.com
info@cactusindustrial.com
+44(0) 1698 591 635

· **Emergency telephone number:**

+44(0) 1698 591 635

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

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

GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

· **Hazard pictograms** (Contd. of page 1)

GHS02 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**
methyl methacrylate
Bisphenol-A-epichlorohydrin
Neopentylglycol propoxylated diacrylate

· **Hazard statements**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

· **Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours.
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 .
P403+P235	Store in a well-ventilated place. Keep cool.

· **2.3 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).

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 25068-38-6 NLP: 500-033-5	Bisphenol-A-epichlorohydrin Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens.1, H317	25-50%
CAS: 80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-28-0000 01-2119452498-28-0025 01-2119452498-28-0028	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens.1, H317; STOT SE 3, H335	25-50%
	Neopentylglycol propoxylated diacrylate Aquatic Chronic 2, H411; Skin Sens. 1B, H317	≥0.25-≤0.5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

(Contd. on page 3)

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(Contd. of page 2)

SECTION 4: First aid measures

· **4.1 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.
· **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 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; call for medical help immediately.
· **4.2 Most important symptoms and effects, both acute and delayed**
Headache
Dizziness
Skin sensitization.
Irritant to skin, eyes and respiratory system.
· **4.3 Indication of any immediate medical attention and special treatment needed**
On inhaling, also with missing illness signs, give inhalatives Corticoid (e. g. , Ventolair).

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:** CO_2, sand, extinguishing powder, foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **5.2 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)
Steams are more difficult than air.
Creeping steams can lead to the inflammation in a larger distance!
· **5.3 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.

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(Contd. on page 4)

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** (Contd. of page 3)
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.

· **6.2 Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage in to water course or sewage system.

· **6.3 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).

· **6.4 Reference to other sections**
See Section 7 for information on safe handling. See Section 13 for disposal information.
See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

· **7.1 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.
Not giving remnants back into the storage vessels.
Providing good ventilating/suction at work.
at least 7-fold air changes
Prevent formation of aerosols.

· **Information about fire - and explosion protection:**
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.

· **7.2 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 oxidising agents.
Store away from foodstuffs.
· **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 container tightly sealed.

(Contd. on page 5)

Protect from heat and direct sunlight.

· **7.3 Specific end use(s)** Building coating or sealing.

(Contd. of page 4)

SECTION 8: Exposure controls/personal protection

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

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

80-62-6 methyl methacrylate (25-50%)	
WEL (Great Britain)	Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm
MAK (Switzerland)	Short-term value: 420 mg/m³, 100 ppm Long-term value: 210 mg/m³, 50 ppm S SSc;
8002-74-2 Paraffin waxes and Hydrocarbon waxes (≥0.1-≤2.5%)	
WEL (Great Britain)	Short-term value: 6 mg/m³ Long-term value: 2 mg/m³
MAK (Switzerland)	Long-term value: 2 a mg/m³

· **DNELs**

80-62-6 methyl methacrylate		
Inhalative	DNEL (worker)	210 mg/m³ (Long-term - local effects) 210 mg/m³ (Long-term - systemic effects) Long-term
	DNEL (population)	74.3 mg/m³ (Long-term - systemic effects) 105 mg/m³ (Long-term - local effects)
Neopentylglycol propoxylated diacrylate		
Dermal	DNEL (worker)	3.33 mg/kg bw/day (Long-term - systemic effects)
	DNEL (worker)	0.177 mg/m³ (Employee / Industrial / Commercial)
Inhalative	DNEL (worker)	11.75 mg/m³ (Long-term - systemic effects)

· **PNECs**

80-62-6 methyl methacrylate	
PNEC sediment	1.47 mg/kg dw (ground)
	5.74 mg/kg dw (freshwater)
PNEC	0.094 mg/l (seawater)
	0.94 mg/l (freshwater)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 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.

· **Respiratory protection:**
Ensure good ventilation.

(Contd. on page 6)

(Contd. of page 5)

In interiors and at transgression of the limiting values breath filtration device: Filter type A1 using an air recycling independent breathing apparatus at high concentrations A2 at an intensive or longer outline.

· **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.
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.
Protective gloves according EN 374.
Saitable material: nitrile.

· **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:**

EN-Standard: EN 166

Tightly sealed goggles

· **Body protection:**

Protective work clothing

(Contd. on page 7)

(Contd. of page 6)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Fluid
Colour:	Light yellow
· Odour:	Ester-like
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	101 °C (MMA)
· Flash point:	13 °C (DIN EN ISO 3680)
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	430 °C (MMA)
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1,7 Vol % (MMA)
Upper:	12,5 Vol % (MMA)
· Vapour pressure at 20 °C:	38.7 hPa (MMA)
· Density at 20 °C:	1.06 g/cm³ (EN ISO 2811-1)
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	log Pow: 1,38 (MMA)
· Viscosity:	
Dynamic at 20 °C:	500 mPas (EN ISO 2555)
· Solvent content:	
Organic solvents:	0.0 %
VOC (EC)	0.00 %
Solids content:	56.0 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** see Section 10.2
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions**
Exothermic reaction.
Reacts with peroxides and other radical forming substances.

(Contd. on page 8)

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(Contd. of page 7)

A hazardous polymerization may occur after the exhaustion of the inhibitor.
· **10.4 Conditions to avoid** Avoid heat. Avoid direct sunlight.
· **10.5 Incompatible materials:** Reactions with peroxides and other free-radical generators.
· **10.6 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.

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects** There were no toxicological findings to the mixture .
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**		
25068-38-6 Bisphenol-A-epichlorohydrin		
Oral	LD50	>5,000 mg/kg (rat)
80-62-6 methyl methacrylate		
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
	NOAEL	2,000 ppm (rat) n drinking water, 6-2000 ppm Findings: No toxic effects
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
	LC50/4h	29.8 mg/l (rat)
Neopentylglycol propoxylated diacrylate		
Dermal	LD50	>2,000 mg/kg (rat)

· **Primary irritant effect:**
· **Skin corrosion/irritation**
Causes skin irritation.
· **Serious eye damage/irritation**
Causes serious eye irritation.
· **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
· **Other information (about experimental toxicology):**
Due to the high vapor pressure is a harmful concent ration in the air quickly been reached. At high concentrations can occur narcotic effect.
· **Subacute to chronic toxicity:** not tested
· **Toxicokinetics, metabolism and distribution** The drug is metabolized rapidly (MMA).
· **Repeated dose toxicity** no data available
· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)** not tested
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure**
May cause respiratory irritation.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

(Contd. on page 9)

(Contd. of page 8)

· **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· **12.1 Toxicity**

80-62-6 methyl methacrylate	
EC3/16h	100 mg/l (Pseudomonas putida) (Zellvermehrun gshemmtest, Bringmann-Kühn)

· **Aquatic toxicity:**

25068-38-6 Bisphenol-A-epichlorohydrin	
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 methacrylate	
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
	37 mg/l (daphnia magna) (OECD 211) 21 days
Neopentylglycol 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)

· **12.2 Persistence and degradability** Easily biodegradable
· **Other information:** The product is easily biodegradable.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 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:**
· **BOD5-value:** 0.14 g/g (MMA)
· **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
· **12.5 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).
· **12.6 Other adverse effects** No further relevant information available.

(Contd. on page 10)

(Contd. of page 9)

SECTION 13: Disposal considerations

· **13.1 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 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.
· **Waste disposal key:**

The following Waste Codes of the European Waste Catalogue (EWC), are considered a recommendation.
The disposal must be coordinated with the local waste disposal company.
Liquid product:
080111 * paint and varnish containing organic solvents or other dangerous substances
080199 waste nec
Cured product residues:
080112 paint and varnish wastes other than those mentioned in 080111
080410 adhesive waste adhesives and sealants other than those mentioned in 080409
· **European waste catalogue** 080111 * (recommended)

· **Uncleaned packaging:**
· **Recommendation:**
This material and its container must be disposed of as hazardous waste.
Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, IMDG, IATA**	UN1263
· **14.2 UN proper shipping name**	
· **ADR**	1263 PAINT
· **IMDG, IATA**	PAINT
· **14.3 Transport hazard class(es)**	
· **ADR, IMDG, IATA**	
· **Class**	3 Flammable liquids.
· **Label**	3
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	III
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	No
· **14.6 Special precautions for user**	Warning: Flammable liquids.

(Contd. on page 11)

(Contd. of page 10)

· **Danger code (Kemler):**	-
· **EMS Number:**	F-E,S-E
· **Stowage Category**	A
· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **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
· **Transport category**	3
· **Tunnel restriction code**	E
· **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

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category** P5c FLAMMABLE LIQUIDS
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **National regulations:**

· **Information about limitation of use:**
Employment restrictions under the Maternity Protection Directive (94/33/EC).
Employment restrictions for maternity Directive (92/85/EEC) for expectant and nursing mothers.
· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
SECTION 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

(Contd. on page 12)

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(Contd. of page 11)

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.

· **Relevant phrases**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects .

· **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.

· **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 Goo ds
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· **Sources**
www.gestis.de
www.echa.eu
logkow.cisti.nrc.ca

· *** Data compared to the previous version altered.**