AC 313

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

GHS product identifier: AC 313
Other means of identification: Coating, Acrylic resin
Recommended use of the chemical and restrictions on use: N/A
Supplier's details: VANBERG SPECIALIZED COATINGS
10705 COTTONWOOD ST.
LENEXA, KS 66215
INFORMATION PHONE NUMBER: 913-599-5939
Emergency phone number: 1-800-255-3924

SECTION 2 – HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008
Flam. Liq. 2 H225 Highly flammable liquid and vapor.
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

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

GHS02 GHS07

Signal word Danger
Hazard-determining components of labelling:
methyl methacrylate
2-ethylhexyl acrylate
tetramethylene dimethacrylate
Hazard statements
H225 Highly flammable liquid and vapor.
H315 Causes skin 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.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P405: Store locked up.
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards
Results of PBT and vPvB assessment
PBT
Not applicable.

vPvB
Not applicable.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Description: Mixture: consisting of the following components.

Dangerous Components:		
CAS: 80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-XXXX	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	25-50%
CAS: 103-11-7 EINECS: 203-080-7 Reg.nr.: 01-2119453158-37-xxxx	2-ethylhexyl acrylate Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	10-25%
CAS: 38668-48-3 EINECS: 254-075-1 Reg.nr.: 01-2119980937-17-xxxx	1,1'-(p-tolylimino)dipropan-2-ol Acute Tox. 2, H300; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	<2.5%
CAS: 2082-81-7 EINECS: 218-218-1 Reg.nr.: 01-2119967415-30-xxxx	tetramethylene dimethacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	<2.5%

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

SECTION 4 – FIRST AID MEASURES

Description of first aid measures
After inhalation
Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
After skin contact:
Immediately wash with water and soap and rinse thoroughly.
After eye contact
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing
If symptoms persist consult 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.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents
CO2, sand, extinguishing powder. Do not use water.
F**or safety reasons, unsuitable extinguishing agents**
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.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.

Environmental precautions
Do not allow to enter sewers/ surface or ground water.
Methods and material for containment and cleaning up
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Information about fire - and explosion protection
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Conditions for safe storage, including any incompatibilities
Storage
Requirements to be met by storerooms and receptacles:
Store in a cool location.
Information about storage in one common storage facility:
Not required.
Further information about storage conditions
Keep container tightly sealed.
Store in cool, dry conditions in well-sealed receptacles.
Specific end use(s)
No further relevant information available.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Control parameters:

Ingredients with limit values that require monitoring at the workplace:	
80-62-6 methyl methacrylate	
WEL	Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm

Additional information
The lists valid during the making 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 eyes and skin.
Respiratory protection:
Use suitable respiratory protective device when high concentrations are present.
Filter AX
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
Material of gloves
Butyl rubber, BR
Recommended thickness of the material: > 0.7 mm
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:


Tightly sealed goggles

Body protection:
Protective work clothing

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
General Information
Appearance:
Form: Liquid
Color: Different according to coloring
Odor: Ester-like
Change in condition
Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 100 °C
Flash point: 10 °C
Ignition temperature: 252 °C
Self-igniting: Product is not self igniting.
Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:
Lower: 0.9 Vol %
Upper: 12.5 Vol %
Vapor pressure at 20 °C: 36 hPa
Density at 20 °C: 0.98 g/cm³
Solubility in / Miscibility with water: Not miscible or difficult to mix.
Viscosity:
Dynamic at 20 °C: 170 mPas (DIN EN ISO 3219)
Kinematic: Not determined.
Other information No further relevant information available.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity No further relevant information available.
Chemical stability
Thermal decomposition / conditions to be avoided
To avoid thermal decomposition do not overheat.
Possibility of hazardous reactions
Exothermic polymerization.
Reacts with acids, alkalis and oxidizing agents.
Conditions to avoid
No further relevant information available.

Incompatible materials
No further relevant information available.
Hazardous decomposition products
Irritant gases/vapors

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity

LD/LC50 values relevant for classification:		
80-62-6 methyl methacrylate		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rat)
Inhalative	LC50/4 h	29.8 mg/l (rat)
103-11-7 2-ethylhexyl acrylate		
Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4 h	600 mg/l (rat)
38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol		
Oral	LD50	100 mg/kg (rat)

Primary irritant effect:
Skin corrosion/irritation
Causes skin irritation.
Serious eye damage/irritation
Based on available data, the classification criteria are not met.
Respiratory or skin sensitization
May cause an allergic skin reaction.
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
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.
Aspiration hazard
Based on available data, the classification criteria are not met.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity:	
80-62-6 methyl methacrylate	
EC0	100 mg/l (Pseudomonas putida)
EC50/48 h	69 mg/l (Daphnia (Wasserfloh))
LC50/96 h	> 79 mg/l (Oncorhynchus mykiss (Regenbogenforelle))
103-11-7 2-ethylhexyl acrylate	
EC50/48 h	1.3 mg/l (Daphnia (Wasserfloh))
EC50/72h	1.71 mg/l (Scenedesmus subspicatus (Alge))
LC50/96 h	1.81 mg/l (Oncorhynchus mykiss (Regenbogenforelle))

38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol	
EC50/48 h	28.8 mg/l (Daphnia (Wasserfloh))

Persistence and degradability
No further relevant information available.
Bioaccumulative potential
No further relevant information available.
Mobility in soil
No further relevant information available.
Additional ecological information:
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.
Results of PBT and vPvB assessment
PBT
Not applicable.
vPvB
Not applicable.
Other adverse effects
No further relevant information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste treatment methods
Recommendation:
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue	
08 04 09	waste adhesives and sealants containing organic solvents or other dangerous substances

Uncleaned packaging:
Recommendation
Disposal must be made according to official regulations.

SECTION 14 – TRANPORTATION INFORMATION

UN-Number:
ADR, IMDG, IATA:
UN1866

UN proper shipping name
ADR
1866 RESIN SOLUTION
IMDG, IATA
RESIN SOLUTION

Transport hazard class(es)
ADR, IMDG, IATA

Class: 3 Flammable liquids.
Label: 3

PACKING GROUP
ADR, IMDG, IATA: II

Environmental hazards:
Marine pollutant:
No.
Symbol (fish and tree)

Special precautions for user
Warning: Flammable liquids.

Danger code (Kemler):
33
EMS Number:
F-E,S-E
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: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
Transport category:
2
Tunnel restriction code:
D/E
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

UN "Model Regulation": UN1866, RESIN SOLUTION, 3, II

SECTION 15 – REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
No further relevant information available.
Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

SECTION 16 – OTHER INFORMATION

Date of Preparation: 11/21/2016
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 vapor.
H300 Fatal if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

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)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (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
IATA: International Air Transport Association
GHS: Globally Harmonized 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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bio accumulative and Toxic
vPvB: very Persistent and very Bio accumulative
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Acute Tox. 2: Acute toxicity, Hazard Category 2
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitization - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3