



AC 320

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

GHS product identifier: AC 320

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.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

General information

Immediately remove any clothing soiled by the product.

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

Drink plenty of water and provide fresh air. Call for a doctor immediately.

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, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons, unsuitable extinguishing agents

Water with full jet

Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device.

Additional information

Cool endangered receptacles with water spray.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources.

Wear protective clothing.

Use respiratory protective device against the effects of fumes/dust/aerosol.

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.

Information about fire - and explosion protection

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles

Store in a cool location.

Store only in unopened original receptacles.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Keep container tightly sealed.

Store receptacle in a well-ventilated area.

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/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 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 skin.

Avoid contact with the eyes and skin.

Respiratory protection

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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: 1.02 g/cm³ (DIN EN ISO 2811-2)

Solubility in / Miscibility with water: Not miscible or difficult to mix.

Viscosity:

Dynamic at 20 °C: 100 mPas (DIN EN ISO 3219)

Kinematic: Not determined.

Solvent content:

VOC (EC) 0.00 %

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.

Reacts with peroxides.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products:

Irritant gases/vapors

Carbon monoxide

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.

Bio accumulative 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	
07 02 08*	other still bottoms and reaction residues

Uncleaned packaging:**Recommendation**

Disposal must be made according to official regulations.

SECTION 14 – TRANSPORTATION 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.

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: E2

Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 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