

# SAFETY DATA SHEET

Regulation (EC) No 1907/2006 (REACH), Annex II  
(COMMISSION REGULATION (EU) No 2015/830)

Version 1  
Product Name HEA

Issue Date 13-May-2016  
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## SECTION 1: Identification of the substance /mixture and of the company/undertaking

### 1.1. Product identifier

Product Name 2-HEA/ 2-HYDROXYETHYL ACRYLATE / ETHYLENE GLYCOL MONOACYLATE  
REACH registration number No information available

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Thermosetting coating, cementing compound, polycarboxylate superplasticizer, and synthetic resin copolymer modifier.  
Uses advised against No information available

### 1.3. Details of the supplier of the safety data sheet

Supplier ADAKEM KİMYA  
Address Yeşilbağlar Mahallesi, Kaptan Sk. Metrowin Tower 17/1, Kat:8 Daire:51 Pendik / İstanbul – TÜRKİYE  
Phone +90 216 330 92 00  
FAX +90 216 331 91 81  
E-mail [info@adakem.com](mailto:info@adakem.com)

### 1.4. Emergency telephone number

112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Dermal Category 3 - (H311)  
Skin corrosion/irritation Category 1 Sub-category B - (H314)  
Skin sensitization Category 1 - (H317)  
Acute aquatic toxicity Category 1 - (H400)

### 2.2. Label elements

Symbols/Pictograms



Signal word  
Hazard Statements

Danger  
H311 - Toxic in contact with skin.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H400 - Very toxic to aquatic life.

Precautionary Statements P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P273 - Avoid release to the environment  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P310 - Immediately call a POISON CENTER or doctor/physician  
 P405 - Store locked up  
 P501 - Dispose of contents/ container to an approved waste disposal plant

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-HEA/ 2-HYDROXYETHYL ACRYLATE / ETHYLENE GLYCOL MONOACRYLATE	212-454-9	818-61-1	100	Acute Tox. 3 (H311) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General advice

Remove contaminated clothing and shoes. If symptoms persist, call a physician.

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

#### Skin Contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention immediately if symptoms occur.

#### Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

#### Ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Toxic in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media

No information available.

**5.2. Special hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon oxides (COx).

**5.3. Advice for firefighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Do not breathe dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

**6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**6.4. Reference to other sections**

See Section 7 for more information

See section 8 for more information

See section 13 for more information

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use personal protective equipment as required.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep this product well sealed.

Recommended storage temperature: 2-8°C.

**7.3. Specific end use(s)**

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

Chemical Name	Australia	Austria	Belgium	Denmark	European Union
2-HEA/ 2-HYDROXYETHYL ACRYLATE / ETHYLENE GLYCOL MONOACYLATE (CAS #: 818-61-1)	-	-	-	TWA: 1 ppm TWA: 5 mg/m <sup>3</sup> Skin	-

Chemical Name	Latvia	France	Finland	Germany	Italy
2-HEA/ 2-HYDROXYETHYL ACRYLATE / ETHYLENE GLYCOL MONOACYLATE (CAS #: 818-61-1)	TWA: 0.5 mg/m <sup>3</sup>	-	-	-	-

**Derived No Effect Level (DNEL)**

No information available

**Predicted No Effect Concentration (PNEC)**

No information available

**8.2. Exposure controls****Engineering Controls**

Use with local exhaust ventilation.

**Personal protective equipment**

Eye/face protection

Wear safety glasses with side shields (or goggles).

Hand Protection

Chemical-resistant gloves should be worn whenever this material is handled.

Skin and body protection

Suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

**Environmental exposure controls**

Avoid release to the environment.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

Liquid

**Color**

Colorless

**Odor**

Sweet, pleasant

**Odor Threshold**

Not determined

**pH**

Not determined

**Melting point/freezing point**

&lt;60°C

**Boiling point / boiling range**

210°C (1013.25hPa)

**Flash point**

107°C (1 013.25 hPa)

**Evaporation rate**

Not determined

**Flammability (solid, gas)**

Not applicable

**Explosive limits**

Lower explosive limit: 1.8%(V)

**Flammability Limit in Air**

Not determined

**Vapor Pressure**

0.1hpa(20°C)

**Vapor density**

Not determined

**Relative density/density**1.106g/cm<sup>3</sup>**Water solubility**

1000g/l(20°C)

**Partition coefficient (LogPow)**

0.21

**Autoignition temperature**

308°C (1 001 - 1 016 mBar)

**Decomposition temperature**

Not determined

**Kinematic viscosity**

Not determined

**Dynamic viscosity**

10.55 mPa. s (29.9 °C)

3.54 mPa. s (59.9 °C)

**Explosive properties**

Heat or flame may cause explosion.

**Oxidizing properties**

Not determined

**9.2. Other information**

No information available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

None under normal processing.

**10.4. Conditions to avoid**

No information available.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

None under normal use conditions.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-HEA/ 2-HYDROXYETHYL ACRYLATE / ETHYLENE GLYCOL MONOACRYLATE (CAS #: 818-61-1)	-	= 154 mg/kg ( Rabbit )	-

**Skin corrosion/irritation**

Causes severe skin burns.

**Serious eye damage/eye irritation**

Causes severe eye damage.

**Sensitization**

May cause an allergic skin reaction.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

No information available

**Reproductive toxicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Aspiration hazard**

No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
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2-HEA/ 2-HYDROXYETHYL ACRYLATE / ETHYLENE GLYCOL MONOACYLATE (CAS #: 818-61-1)	-	4.8: 96 h Pimephales promelas mg/L LC50 flow-through	0.78: 48 h Daphnia magna mg/L EC50
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**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

Chemical Name	Partition coefficient (LogPow)
2-HEA/ 2-HYDROXYETHYL ACRYLATE / ETHYLENE GLYCOL MONOACYLATE (CAS #: 818-61-1)	0.21

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

**SECTION 14: Transport information**

<b>14.1. UN number</b>	2922
<b>14.2. UN proper shipping name</b>	CORROSIVE LIQUID, TOXIC, N.O.S.( Ethylene glycol monoacrylate)
<b>14.3. Transport hazard class(es)</b>	8+6.1
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	Marine pollutant
<b>14.6. Special precautions for user</b>	No information available
<b>14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	Does not apply

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****European Union**

Component	EINECS/ELINCS	SVHC candidates	RESTRICTIONS - REACH TITLE VIII
2-HEA/ 2-HYDROXYETHYL ACRYLATE / ETHYLENE GLYCOL MONOACYLATE (CAS #: 818-61-1)	X	-	-

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### International Inventories

Component	TSCA	DSL/NDSL	ENCS	IECSC	KECL	PICCS	AICS
2-HEA/ 2-HYDROXYETHYL ACRYLATE / ETHYLENE GLYCOL MONOACRYLATE (CAS #: 818-61-1)	X	X	X	X	X	X	X

"-" Not Listed

"X" Listed

#### 15.2. Chemical safety assessment

No information available.

### SECTION 16: Other information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Issue Date** 13-May-2016  
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**Revision Note** Not applicable

#### Key or legend to abbreviations and acronyms used in the safety data sheet

**TWA** - TWA (time-weighted average)

**STEL** - STEL (Short Term Exposure Limit)

**Ceiling** - Maximum limit value

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

#### Key literature references and sources for data

ECHA: <http://echa.europa.eu/>

#### Full text of H-Statements referred to under section 3

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

#### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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