

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830

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Version 1.0006 US(EN)

## REVO ECO 3017

Revision date 26.07.2016  
Issue date 14.08.2014  
Print date 08.12.2016

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. product identifiers

Identification of the substance or mixture REVO ECO 3017

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

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

##### supplier (manufacturer/importer/downstream user/distributor)

Lloyds of Indiana, Inc  
2507 Roosevelt Avenue  
Indianapolis, IN 46218

Telephone: 877-626-6848  
sales@lloydsfindiana.com  
www.lloydsfindiana.com

##### Dept. responsible for information:

QHSE / Emergency Officer

E-mail (competent person):

sales@lloydsfindiana.com

#### 1.4. Emergency telephone number

Emergency telephone number

Emergency (Tox.-Center)

800-222-1222

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Irrit. 2 / H315

skin corrosion/irritation

Causes skin irritation.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation

Causes serious eye irritation.

Skin Sens. 1 / H317

Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### 2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

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

##### Hazard pictograms



Warning

##### Hazard statements

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H317

May cause an allergic skin reaction.

##### Precautionary statements

P261

Avoid breathing mist.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352

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

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313

If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313

If eye irritation persists: Get medical advice/attention.

P362 + P364

Take off contaminated clothing and wash it before reuse.

P501

Dispose of contents/container to industrial incineration plant.

##### contains:

hexamethylene diacrylate

Ethoxylated trimethylolpropane triacrylate

2,2-bis(acryloyloxymethyl)butyl acrylate

##### Supplemental Hazard information (EU)

not applicable

#### 2.3. Other information

HMIS Rating (USA) / National Fire Protection Association (USA)

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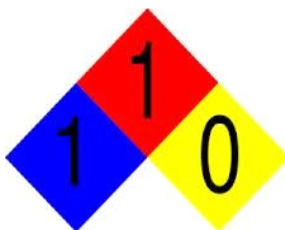
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## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Product description / chemical characterization

**Description** Acrylsäureester-Amino-Additionsprodukte

#### Hazardous ingredients

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

EC No. CAS No. INDEX No.	REACH No. Chemical name classification:	Wt % Remark
235-921-9 13048-33-4 607-109-00-8	01-2119484737-22-xxxx hexamethylene diacrylate Eye Irrit. 2 H319 / Skin Irrit. 2 H315 / Skin Sens. 1 H317	25 < 50
239-701-3 15625-89-5 607-111-00-9	01-2119489896-11-xxxx 2,2-bis(acryloyloxymethyl)butyl acrylate Eye Irrit. 2 H319 / Skin Irrit. 2 H315 / Skin Sens. 1 H317	2.5 < 5
231-272-0 7473-98-5	2-Hydroxy-2-methylpropiophenone Acute Tox. 4 H302	1 < 2.5
500-066-5 28961-43-5	01-2119489900-30-xxxx Ethoxylated trimethylolpropane triacrylate Eye Irrit. 2 H319 / Skin Sens. 1 H317	0.5 < 1

#### Additional information

Full text of classification: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

Following skin contact Conditions to avoid: UV-radiation/sunlight

Causes mild skin irritation.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

**4.3. Indication of any immediate medical attention and special treatment needed****SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media:**

alcohol resistant foam, carbon dioxide fire blanket, Powder, spray mist, (water)

**Extinguishing media which must not be used for safety reasons:**

strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

**5.3. Special protective equipment for firefighters**

Provide a conveniently located respiratory protective device.

**Additional information**

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

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

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours. See protective measures under point 7 and 8.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

**6.4. Reference to other sections**

Observe protective provisions (see chapter 7 and 8).

**SECTION 7: Handling and storage**

Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used.

**7.1. Precautions for safe handling****Advices on safe handling**

Use only in well-ventilated areas. Keep away from heat sources, sparks and open flames. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between (77 F - 95 F) 5 °C and 35 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Keep only in the original

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container.

### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values:

INDEX No. not applicable / CAS No.

### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

#### Occupational exposure controls

##### Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

##### Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

##### Eye protection

Wear closely fitting protective glasses in case of splashes.

##### Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

##### Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

#### Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance:

Physical state	liquid
Colour	refer to label
Odour	characteristic

#### Safety relevant basis data

	Unit	Method	Remark
Flash point (°C):	100 °C	DIN 53213	
Ignition temperature in °C:	not applicable °C		
Lower explosion limit:	not applicable Vol-%		
Upper explosion limit:	not applicable Vol-%		
Vapour pressure at 20 °C:	not applicable		
Density at 20 °C:	1.02 g/cm³		
Water solubility (g/L)	insoluble		
pH at 20 °C:	-		
Viscosity at 23 °C:	80 s 4 mm	4 DIN 53211	
Solvent separation test (%):	< 3 %		
solvent content:			
Organic solvents:	0 Wt %		
Water:	0 Wt %		

### 9.2. Other information

Flash point (US): > 212 F

## SECTION 10: Stability and reactivity

**10.1. Reactivity****10.2. Chemical stability**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

**10.3. Possibility of hazardous reactions**

Keep away from free radical initiators, peroxides, strong alkaline material and reactive metals. Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

**10.4. Conditions to avoid**

This preparation contains material instable under the following conditions: Heat, strong ultraviolet radiation. An exotherm polymerization of the product may thereby be caused. Avoid unintended contact with it. Hazardous decomposition byproducts may form with exposure to high temperatures.

**10.5. Incompatible materials**

Keep away from free radical initiators, peroxides, strong alkaline material and reactive metals.

**10.6. Hazardous decomposition products**

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

**SECTION 11: Toxicological information**

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

No data on preparation itself available.

**11.1. Information on toxicological effects****Acute toxicity**

Toxicological data are not available.

**skin corrosion/irritation; Serious eye damage/eye irritation**

Toxicological data are not available.

**Respiratory or skin sensitisation**

Toxicological data are not available.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Toxicological data are not available.

**Specific target organ toxicity**

Toxicological data are not available.

**Aspiration hazard**

Toxicological data are not available.

**Practical experience/human evidence**

Other observations:

The fractions of acrylic resin in the preparation have an irritant effect. Prolonged or repeated contact with the preparation can lead to irritations of mucous membranes and of skin such as redness, formation of blebs, dermatitis, etc.. Cases of allergic skin reactions have been observed. Liquid splashes can lead to irritations of the eyes. Inhaling of droplets in the air or aerosols may lead to irritations of the respiratory tract. Ingestion may cause nausea, weakness and affect the central nervous system.

**Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**Remark**

There is no information available on the preparation itself.

**SECTION 12: Ecological information****overall evaluation**

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

There is no information available on the preparation itself.

Do not allow to enter into surface water or drains.

**12.1. Toxicity**

No information available.

**Long-term Ecotoxicity**

Toxicological data are not available.

**12.2. Persistence and degradability**

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Toxicological data are not available.

### 12.3. Bioaccumulative potential

Toxicological data are not available.

### Bioconcentration factor (BCF)

Toxicological data are not available.

### 12.4. Mobility in soil

Toxicological data are not available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Appropriate disposal / Product

#### Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### List of proposed waste codes/waste designations in accordance with EWC

080111 waste paint and varnish containing organic solvents or  
other dangerous substances

#### packaging

#### Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## SECTION 14: Transport information

This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).

### 14.1. UN number

not applicable

### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

not applicable

### 14.4. Packing group

not applicable

### 14.5. Environmental hazards

Land transport (ADR/RID)

not applicable

Marine pollutant

not applicable

### 14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

#### Further information

#### Land transport (ADR/RID)

tunnel restriction code

-

#### Sea transport (IMDG)

EmS-No.

not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

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### Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/L) ISO 11890-2: 0.753  
VOC-value (in g/L) ASTM D 2369: 0.753

### National regulations

#### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

#### Other regulations, restrictions and prohibition regulations

MAL-CODE:

VOC ASTM D-3960-1 (lb/gal): 0.000

VOC (%): 0.0

### 15.2. Chemical Safety Assessment

For the following substances of this preparation a chemical safety assessment has been carried out:

EC No. CAS No.	Chemical name	REACH No.
235-921-9 13048-33-4	hexamethylene diacrylate	01-2119484737-22-xxxx
239-701-3 15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate	01-2119489896-11-xxxxx
500-066-5 28961-43-5	Ethoxylated trimethylolpropane triacrylate	01-2119489900-30-xxxx

### 16. Other information

#### Full text of classification in section 3:

Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.

#### Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

#### Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.