

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) No 453/2010

Article No.: 127XXX033 LIQUID RETARDER  
Print date: 15.02.2017 Revision date: 15.02.2017 EN  
Version: 1.0 Issue date: 28.12.2016 Page: 1 / 6

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifiers**

Article No. (manufacturer/supplier): 127XXX033  
Identification of the substance or mixture LIQUID RETARDER

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

**Relevant identified uses**

Artists supply and hobby preparations  
Coatings and paints, thinners, paint removers

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

**Supplier (manufacturer/importer/downstream user/distributor):**

Daler-Rowney Ltd  
Peacock Lane Telephone: +44 (0) 1344 461083  
Bracknell, RG12 8SS Telefax: +44 (0) 1344 486511  
ENGLAND

**Dept. responsible for information:**

E-mail Philip.Gray@daler-rowney.com

**1.4. Emergency telephone number**

Emergency telephone: +44 (0) 1344 461000

**2. Hazards identification**

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

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

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

**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**

**Hazard statements**

n.a.

**Precautionary statements**

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

**contains:**

n.a.

**Supplemental Hazard information (EU)**

EUH210 Safety data sheet available on request.

**2.3. Other hazards**

**3. Composition / Information on ingredients**

**3.2. Mixtures**

**Product description / chemical characterization**

Description acrylic paint

**Hazardous ingredients**

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

EC No.	REACH No.	Wt %
CAS No.	Chemical name	Remark
INDEX No.	classification:	
204-709-8		
124-68-5	2-amino-2-methylpropanol	1 - 2,5
603-070-00-6	Eye Irrit. 2 H319 / Skin Irrit. 2 H315 / Aquatic Chronic 3 H412	

**Additional information**

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Full text of classification: see section 16

## 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

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

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm.

### 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

## 5. Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

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

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

strong water jet

### 5.2. Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:

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

Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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 chapter 13). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

## 7. Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid contact with skin, eyes and clothes. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Follow the legal protection and safety regulations.

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## 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.

### Further information on storage conditions

Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C.

## 7.3. Specific end use(s)

Observe instructions for use.

## 8. Exposure controls / Personal protection

### 8.1. Control parameters

#### Occupational exposure limit values:

n.a.

### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction.

#### Occupational exposure controls

##### Respiratory protection

Not applicable.

##### 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) 30 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 suitable protective clothing and gloves.

##### 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.

## 9. Physical and chemical properties

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

**Appearance:** liquid  
**Physical state:** liquid  
**Colour:** refer to label  
**Odour:** characteristic

Safety relevant basis data	Unit	Method	Remark
Flash point:			Not applicable
Vapour pressure at 20 °C:			n.a.
Density at 20 °C:			1,00 g/cm <sup>3</sup>
Water solubility (g/L):			completely miscible
pH at 20 °C:			-
Viscosity at 20 °C:			> 50 mPa·s

### 9.2. Other information:

## 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

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## 10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

## 10.5. Incompatible materials

## 10.6. Hazardous decomposition products

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

## 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

2-amino-2-methylpropanol  
oral, LD50, Rat: 2900 mg/kg

#### 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:

Splashing may cause eye irritation and reversible damage.

#### 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 .

## 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

2-amino-2-methylpropanol  
Daphnia toxicity, EC50: 193 mg/L (48 h)

#### Long-term Ecotoxicity

Toxicological data are not available.

### 12.2. Persistence and degradability

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.

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## 12.5. Results of PBT assessment

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

## 12.6. Other adverse effects

## 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

140603 other solvents and solvent mixtures

#### packaging

#### Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste. Send to a collecting point for used paints.

## 14. Transport information

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

**No dangerous good in sense of this transport regulation.**

### 14.1. UN number

n.a.

### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

n.a.

### 14.4. Packing group

n.a.

### 14.5. Environmental hazards

Land transport (ADR/RID)

n.a.

Marine pollutant

n.a.

### 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

#### Additional information

#### Land transport (ADR/RID)

tunnel restriction code

-

#### Sea transport (IMDG)

EmS-No.

n.a.

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

not applicable

## 15. Regulatory information

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

#### EU legislation

**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

VOC-value (in g/L) ASTM D 2369:

0

#### National regulations

#### Restrictions of occupation

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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

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

### 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.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.

#### 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).

#### Additional 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.