

## Model-Dent MD1200,

## Model-Dent MD1300

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

#### 1.1 Product identifier

Trade name/designation Model-Dent MD1200, Model-Dent MD1300

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

##### Relevant identified uses

##### Sector of uses [SU]

Light curing resin for ResiniFy Technology's family Computer Aided Modeling Devices

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

##### Supplier

ResiniFy Technology LLC  
22350 W. Warren Ave. Detroit  
MI 48239 USA  
support@ResiniFyTechnology.com  
1.810.888 7373  
[www.ResiniFyTechnology.com](http://www.ResiniFyTechnology.com)

#### 1.4 Emergency telephone number

Only available during office hours.

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Acute Tox. 4 **hazard statements for health**

**hazards** H302 Harmful if swallowed.

##### health hazards

Skin Irrit. 2

Light, E-Model Light 3SP, E-Model  
Light M, E-Model Flex, E-Model

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**hazard statements for health hazards** H315 Causes skin irritation.

**health hazards**

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Skin Sens. 1 **hazard statements for health hazards** H317 May cause an allergic skin reaction. **health hazards**

Eye Dam. 1 **hazard statements for health hazards** H318 Causes serious eye damage.

**hazard statements for health hazards**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**hazard statements for health hazards**

H335 May cause respiratory irritation.

**health hazards**

STOT RE 2 **hazard statements for health hazards**

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

**Environmental hazards**

Aquatic Chronic 3 **hazard statements for environmental hazards** H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

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

#### Hazard components for labelling

1,6 Hexanediol diacrylate  
Acrylated monomer

#### Hazard pictograms



GHS07



GHS05



GHS08

#### Signal word

Danger

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#### Hazard statements hazard statements for health hazards

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

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H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

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H373 May cause damage to organs through prolonged or repeated exposure if swallowed.  
H315 Causes skin irritation.

### Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

#### General:

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

#### Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Response:

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.

#### Storage:

P404 Store in a closed container.

#### Disposal:

P501 Dispose of contents/container to industrial incineration plant.

### 2.3 Other hazards

#### Other adverse effects

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

## SECTION 3: Composition / information on ingredients

### 3.1/3.2 Substances/Mixtures

#### Hazardous ingredients

Acrylated oligomer	10 - 15 %
CAS Proprietary	
Skin Irrit. 2, H315 / Skin Sens. 1A, H317 / Eye Irrit. 2, H319	
Acrylated monomer	10 - 25 %
CAS Proprietary	

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Skin Irrit. 2, H315 / Eye Irrit. 2, H319

Acrylated oligomer  
CAS Proprietary

20 - 30 %

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1,6 Hexandiol diacrylate CAS 13048-33-4 EC 235-921-9 Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / Resp. Sens. 1A, H334 / Aquatic Chronic 3, H412	1 - 2 %
Acrylated monomer CAS Proprietary Acute Tox. 4, H302 / Skin Sens. 1B, H317 / Eye Dam. 1, H318 / STOT RE 2, H373	20 - 40 %

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information

Remove contaminated, saturated clothing immediately.

##### Following inhalation

If breathing is irregular or stopped, administer artificial respiration.

##### Following skin contact

After contact with skin, wash immediately with plenty of water and soap.

##### After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

##### Following ingestion

Do not induce vomiting.

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

No data available

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

##### Special treatment

Treat symptomatically

### SECTION 5: Firefighting measures

#### Additional information

The product itself does not burn. Do not allow run-off from fire-fighting to enter drains or water courses. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Do not inhale explosion and combustion gases. **5.1 Extinguishing media Suitable extinguishing media**

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Foam  
Extinguishing powder

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Carbon dioxide (CO<sub>2</sub>)

### Unsuitable extinguishing media

Strong water jet

### 5.2 Special hazards arising from the substance or mixture

#### Hazardous combustion products

In case of fire may be liberated:

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

**Special protective equipment for firefighters** In case of fire: Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

**Additional information** Clear spills immediately.

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

#### For non-emergency personnel

#### Emergency procedures

Provide adequate ventilation. Remove all sources of ignition.

#### For emergency responders

#### Personal protection equipment

Use appropriate respiratory protection.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

#### For containment

#### Suitable material for taking up

Absorbing material, organic

Sand

Chemical binding agents, containing acids

### 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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### SECTION 7: Handling and storage

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#### 7.1 Precautions for safe handling

##### Advices on general occupational hygiene

Provide eye shower and label its location conspicuously

##### Protective measures

##### Advices on safe handling

Provide room air exhaust at ground level. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. Do not breathe gas/fumes/vapour/spray.

##### Measures to prevent fire

Keep away from sources of ignition - No smoking. Usual measures for fire prevention. Take precautionary measures against static discharges. When using do not eat, drink, smoke, sniff.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Keep container tightly closed. Keep/Store only in original container.

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Protect from the action of light. Store at 5 - 30 degree C.

##### Hints on joint storage

##### Materials to avoid

Oxidising agent  
Reducing agent  
Strong alkali  
Alcohols

##### Further information on storage conditions

Keep container tightly closed and in a well-ventilated place. Protect containers against damage.

Protect against:

UV-radiation/sunlight

#### 7.3 Specific end use(s)

##### Recommendation

Observe instructions for use.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

No data available

#### 8.2 Exposure controls

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**Personal protection equipment**

**Eye/face protection**

**Suitable eye protection**



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Eye glasses with side protection  
goggles

**Skin protection**

**Suitable gloves type**

Disposable gloves

**Suitable material**

NBR (Nitrile rubber)

Butyl caoutchouc (butyl rubber)

**Unsuitable material**

NR (natural rubber, natural latex)

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**Body protection**

**Suitable protective clothing**

Apron lab coat

**Respiratory protection**

With correct and proper use, and under normal conditions,  
required.

Respiratory protection necessary at: insufficient ventilation

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**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance**

**Physical state**

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liquid

**Colour**

various  
translucent  
opaque  
light beige  
light orange  
black white  
blue

**Odour**

parameter

Method - source - remark

Evaporation rate

not determined

Melting point/freezing point

not determined

Boiling point or initial boiling point and boiling range >100 °C  
flammability

Acrylate

Upper explosion limit lower explosion limit

not determined not determined not determined

parameter

Method - source - remark

Flash point (°C) 150 °C

Auto-ignition temperature

not determined

Decomposition temperature

not determined

pH

not determined

Soluble (g/L) in

Alcohol

Fat solubility

not determined

Water solubility

practically insoluble

Partition coefficient: n-octanol/water

not determined

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Vapour pressure		not determined
Vapour density		not determined
Relative density	1.05 - 1.12 g/cm <sup>3</sup> Temperature 25 °C	
particle characteristics		not determined
Dynamic viscosity	100 - 200 mPa*s Temperature 30 °C	
flow time		not determined
Kinematic viscosity		not determined

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazardous reaction when handled and store to provisions.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

**10.3 Possibility of hazardous reactions** Danger of polymerisation with heat evolution in presence of radical forming substances, reducing agents, and/or heavy metals ions.

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### 10.4 Conditions to avoid

In case of light influence:  
Danger of polymerisation  
Can polymerize with intensive heat release.

### 10.5 Incompatible materials

#### Materials to avoid

Oxidising agent, strong  
Reducing agent  
Radical former  
Peroxides  
Alkali (lye)  
Heavy metals

### 10.6 Hazardous decomposition products

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Carbon monoxide

Carbon dioxide

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### SECTION 11: Toxicological information

#### Additional information

Product has not been tested. The statement is derived from properties of the components.

#### 11.1 Information on toxicological effects

##### Acute toxicity

##### Acute dermal toxicity ingredient

Acrylated monomer **Acute dermal toxicity** >2000 mg/kg

**Effective dose** LD50:

**Species:**

Rat **source**

Literature

**ingredient** 1,6 Hexandiol diacrylate

**Acute dermal toxicity** 3650 mg/kg

**Effective dose** LD50:

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**Species:**

Rabbit

**Acute inhalation toxicity (vapour) ingredient 1,6**

Hexandiol diacrylate

**Acute inhalation toxicity (vapour)** 0.41 mg/kg

**Effective dose** 5.28 mg/kg

LC50:

**Exposure time** 7 h

**Species:**

Rat

**Symptoms/ delayed effects**

No death occurred.

**ingredient** Acrylated monomer

**Acute inhalation toxicity (vapour)**

**Effective dose**

LC50:

**Exposure time** 4 h

**Species:**

Rat

**Acute oral toxicity ingredient 1,6**

Hexandiol diacrylate **Acute oral**

**toxicity** 5000 mg/kg

**Effective dose**

LD50:

**Species: Rat ingredient**

Acrylated monomer **Acute oral toxicity**

588 mg/kg

**Effective dose**

LD50:

**Species:**

Rat **skin corrosion/irritation**

**Assessment/classification**

Irritant.

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**Respiratory or skin sensitisation**

**Sensitisation to the respiratory tract**

**Assessment/classification**

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May cause sensitization by inhalation and skin contact.

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### Skin sensitisation

#### Assessment/classification

May cause an allergic skin reaction.

### STOT-repeated exposure

#### STOT RE 1 and 2

### Oral specific target organ toxicity (repeated exposure)

#### Other information

May causes damage to organs through prolonged or repeated swallowing.

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## SECTION 12: Ecological information

### Additional information

Do not allow uncontrolled discharge of product into environment. Do not allow to enter into surface water or drains. The product has not been tested. The statement is derived from the properties of the components.

### 12.1 Toxicity

#### Aquatic toxicity

#### Acute (short-term) fish toxicity ingredient

Acrylated monomer

**Acute (short-term) fish toxicity** >200 mg/L

#### Effective dose

LC50:

**Test duration** 96 h **species**

Danio rerio (zebrafish)

**ingredient** 1,6 Hexandiol diacrylate

**Acute (short-term) fish toxicity** 4.6 - 10 mg/L

#### Effective dose

LC50:

**Test duration** 96 h

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species

Leuciscus idus (golden orfe)

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### Acute (short-term) toxicity to crustacea ingredient

Acrylated monomer

**Acute (short-term) toxicity to crustacea** >200 mg/L

#### Effective dose

EC50

**Test duration** 48 h **species**

Daphnia magna (Big water flea)

#### Method

OECD 202

**ingredient** 1,6 Hexandiol diacrylate

**Acute (short-term) toxicity to crustacea** 2.6 mg/L

#### Effective dose

EC50

**Test duration** 48 h **species**

Daphnia magna (Big water flea)

### Toxicity to other aquatic plants/organisms

**ingredient** Acrylated monomer

**Acute (short-term) toxicity to algae and cyanobacteria** 120 mg/L

#### Effective dose

EC50

**Test duration** 72 h **species**

Lemna minor (little duckweed)

**ingredient** 1,6 Hexandiol diacrylate

**Acute (short-term) toxicity to algae and cyanobacteria** 1.5 mg/L

#### Effective dose

EC50

**Test duration** 72 h **species**

Lemna minor (little duckweed)

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### 12.2 Persistence and degradability

#### Assessment/classification

The product has not be tested.

### 12.3 Bioaccumulative potential

#### Assessment/classification

The product has not be tested.

### 12.4 Mobility in soil

No information available.

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## 12.5 Results of PBT and vPvB assessment

The product has not be tested.

## 12.6 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

## SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATADGR)
14.1 UN-No.	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 ENVIRONMENTALLY HAZARDOUS	not applicable	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

### Additional information - Land transport (ADR/RID) remark

No dangerous good in sense of this transport regulation.

### Additional information - Sea transport (IMDG) remark

No dangerous good in sense of this transport regulation.

### Additional information - Air transport (ICAO-TI / IATA-DGR) remark

No dangerous good in sense of this transport regulation.

## SECTION 15: Regulatory information



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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** No data available

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### 15.2 Chemical Safety Assessment

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

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## SECTION 16: Other information

### Additional information

Observe labels and safety data sheets for chemicals used in processing. Notice the directions for use on the label.

### Relevant R-, H- and EUH-phrases (Number and full text)

H302, R20 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H412 Harmful to aquatic life with long lasting effects.

### Key literature references and sources for data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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