

## **Safety Data Sheet**

## **High Clear V1 Resin**

Safety data sheet according to Regulation (EU) 2020/878 as amended from time to time

 Date / First version: 24.04.2024
 Version: 1.0

 Date previous version: 24.04.2024
 Version: 1.0

 Date / version: 09.09.2024
 Version: 1.1

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

#### 1.1. Product identifier

Product Form Mixture

Product Name Raise3D High Clear V1 Resin UFI Nummer 4HMG-G99V-RTKR-0VYA

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

1.2.1. Relevant identified uses

Use of the substance/mixture Raise3D DF series 3D printers

1.2.2. Uses advised against

Restrictions on use No information available

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

Supplier Importer
Raise3D B.V.

Raise 3D Technologies, Inc.

Stationsplein 45 Unit A4.004 3013AK Rotterdam, the

43 Tesla, Irvine, CA 92618 Netherlands

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1.4. Emergency number

Emergency number +49 761 19240

Date / Revised: 09.09.2024 version: 1.1

#### **SECTION 2. Hazards Identification**

#### 2.1. Hazardous substances and mixtures

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

Skin corrosion/irritation

Skin sensitization

Category 2

Skin sensitization

Category 1

Hazardous to the aquatic environment – Chronic Hazard

Category 2

Serious eye damage/eye irritation

Category 2

Specific target organ toxicity – Single exposure Category 3, Respiratory tract

irritation

Reproductive toxicity (fertility)

Category 2

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Suspected of damaging fertility or the unborn child. Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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









#### Signal word (CLP)

Warning

#### **Hazard statements (CLP)**

H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye damage.	
H335	May cause respiratory irritation.	

Date / Revised: 09.09.2024 version: 1.1

H411 Toxic to aquatic life with long lasting effects.

## Precautionary statements (CLP)

Precautionary statements (CLP)				
P203	Obtain, read and follow all safety instructions before use.			
P260	Do not breathe dust/fume/gas/mist/vapours/spray.			
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.			
P263	Avoid contact during pregnancy and while nursing.			
P264	Wash hand thoroughly after handling.			
P265	Do not touch eyes.			
P270	Do not eat, drink or smoke when using this product.			
P271	Use only outdoors or in a well-ventilated area.			
P272	Contaminated work clothing should not be allowed out of workplace.			
P273	Avoid release to the environment.			
P280	Wear protective gloves and eye protection or face protection.			
P264 + P265	Wash hands thoroughly after handling. Do not touch eyes.			
P318	If exposed or concerned, get medical advice.			
P391	Collect spillage.			
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.			
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for			
	breathing.			
P333 + P317	If skin irritation or rash occurs: Get medical help.			
P362 + P364	Take off contaminated clothing and wash if before reuse.			
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove			
	contact lenses, if present and easy to do. Continue rinsing			
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.			
P405	Store locked up.			
DEOA				
P501	Dispose of contents and container to hazardous or special waste			
	collection point.			
EUH-statements	None.			

#### 2.3. Other hazards

Date / Revised: 09.09.2024 version: 1.1

Other hazards which do not result in classification: No information available.

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable.

#### 3.2. Mixtures

Product identifier	%	Classification according to Regulation (EC) No. 1272/2008
CAS-No.: 1330-61-6 EC-No: 215-542-5	≥ 26 - < 30	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eve Irrit 2, H3 19 STOT SE 3, H335 Aquatic Chronic 2, H411
CAS-No.: 66492-51-1 EC-No.: 266-380-7	≥ 18-<22	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
CAS-No.: 75980-60-8 EC-No.: 178-355-8	5	Skin Sens. 1B, H317 Repr. 2 (fertility), H361 Repr. 2 (unborn child), H361 Aquatic Chronic 2, H411
	CAS-No.: 55818-57-0 EC-No.: 500-130-2 CAS-No.: 1330-61-6 EC-No: 215-542-5 CAS-No.: 66492-51-1 EC-No.: 266-380-7 CAS-No.: 75980-60-8	CAS-No.: 55818-57-0 ≥ 43 – < 47 EC-No.: 500-130-2  CAS-No.: 1330-61-6 EC-No: 215-542-5  CAS-No.: 66492-51-1 EC-No.: 266-380-7  CAS-No.: 75980-60-8  5

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

High clear v1 Resin Raise3D

The safety data sheet according to Regulation(EU)2020/878asamended from time to time.

Date / Revised: 09.09.2024 version: 1.1

First-aid measures general Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation Remove person to fresh air and keep comfortable for

breathing. Call a poison center or a doctor if you feel

unwell.

First-aid measures after skin contact Wash skin with plenty of water. Take off contaminated

clothing. If skin irritation or rash occurs: Get medical

advice/attention.

First-aid measures after eye contact Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing. Call a physician immediately.

First-aid measures after ingestion Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects Causes skin irritation. May cause an allergic skin

reaction. Causes serious eye damage.May cause

respiratory irritation.

#### 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. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media Do not use a heavy water stream.

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

Fire hazard No fire hazard.

Explosion hazard No direct explosion hazard.

Hazardous decomposition products in Toxic fumes may be released.

case of fire

#### 5.3. Advice for firefighters

Firefighting instructions Fight fire from safe distance and protected location.

Date / Revised: 09.09.2024 version: 1.1

Do not enter fire area without proper protective

equipment, including respiratory protection. Avoid all unnecessary exposure. Avoid inhalation of vapours.

Wear personal protective equipment.

Protection during firefighting Do not attempt to take action without suitable

protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

#### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Protective equipment Wear recommended personal protective equipment.

Emergency procedures Ventilate spillage area. Avoid breathing

dust/fume/gas/mist/vapours/spray. Avoid contact with

skin and eyes.

6.1.2. For emergency responders

Protective equipment Do not attempt to take action without suitable

protective equipment. For further information refer to

section 8: "Exposure controls/personal protection".

Emergency procedures Evacuate unnecessary personnel. Stop leak if safe to

do so.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment Collect spillage. Contain any spills with dikes or

absorbents to prevent migration and entry into sewers

or streams. Stop leak without risks if possible.

Methods for cleaning up Take up liquid spill into absorbent material.

Other information Dispose of materials or solid residues at an

authorized site.

## **SECTION 7: Handling and storage**

Date / Revised: 09.09.2024 version: 1.1

#### 7.1. Precautions for safe handling

Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal

protective equipment.

Hygiene measures Wash contaminated clothing before reuse.

Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling

the product.

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

Technical measures Keep in a cool, well-ventilated place away from heat.

Storage conditions Store locked up. Store in a well-ventilated place. Keep

container tightly closed. Avoid high temperatures.

Incompatible materials No information available.

Packaging materials Store always product in container of same material as

original container.

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

SDS section 1.2.1 - Additional text

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

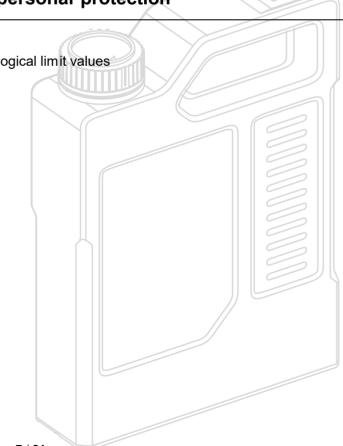
8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

8.2.1. Appropriate engineering controls

### Appropriate engineering controls:



Date / Revised: 09.09.2024 version: 1.1

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

#### Eye protection:

Safety glasses

8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties Physical state Liquid Colour Clear Odour Slight odour Not available Odour threshold -60 °C Melting point Freezing point Not available 140 °C Boiling point Flammability Not flammable Lower explosion limit Not available Upper explosion limit Not available Flash point > 250 °C Auto-ignition temperature Not available

High clear v1 Resin Raise3D

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Date / Revised: 09.09.2024 version: 1.1

Decomposition temperature > 250 °C

pH 6.8 - 7.2

Viscosity, kinematic Not available

Viscosity, dynamic 250 – 350 mPa·s @ 25 °C

Solubility Slightly soluble in water. Soluble in benzene, alcohol, ethers.

Soluble in other organic solvents.

Partition coefficient n-octanol/water Not available

(Log Kow)

Vapour pressure < 0,01 mm Hg

Vapour pressure at 50°C Not available

Density 1,05 g/cm³ @ 25 °C

Relative density Not available

Relative vapour density at 20°C Not available

Particle characteristics Not applicable

Self-igniting > 450 °C

Vapour density > 1 g/m<sup>3</sup>

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Raise3D

The safety data sheet according to Regulation(EU)2020/878asamended from time to time.

Date / Revised: 09.09.2024 version: 1.1

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **ABSCHNITT 11: Toxikologische Angaben**

#### 11.1.Acute toxicity

Based on available data, the classification criteria are not met, yet still harm in ingesting small amounts.

#### 11.2. Skin irritation:

Skin contact causes irritation.

#### 11.3. Eye irritation:

Eye contact causes serious irritation, including severe pain, feeling of burning, shedding tears, or swelling.

#### 11.4. Respiratory/Skin sensitization:

Sensitization after skin contact possible.

#### 11.5. Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

#### 11.6. Carcinogenicity:

Based on available data, the classification criteria are not met.

#### 11.7. Reproductive toxicity:

Date / Revised: 09.09.2024 version: 1.1

Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide Assessment of reproduction toxicity:

The results of animal studies suggest a fertility impairing effect.

#### 11.8. Specific target organ toxicity (single exposure):

Causes temporary irritation of the respiratory tract.

Remarks: The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### 11.9. Repeated dose toxicity and Specific target organ toxicity (repeated exposure):

Based on available data, the classification criteria are not met.

#### 11.10.Aspiration hazard:

With low volatility in the normal service condition, the product are not expected to cause obvious symptoms. But it may generate gases/vapours after heating up, which results in respiratory irritation, including cough, secreting mucus, polypnea.

#### 11.11. Information on other hazards

11.11.1. Endocrine disrupting properties
Adverse health effects caused by
endocrine disrupting properties

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11.11.2. Other informationNo additional information available

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the individual components.