ESUN-RES-WAW05KG-ROJ

RESINA ESUN LAVABLE 500 GRAMOS ROJO



DESCRIPCIÓN

ctrónica

La resina lavable eSUN se puede lavar con agua, ahorrando el paso de la limpieza con alcohol y acortando en medida tiempo de gran el procesamiento. Por lo tanto, la resina lavable con agua puede mejorar la eficiencia de la impresión y ser rentable.La precisión del moldeado es excelente, con alta resolución, la superficie del producto impreso es suave y los detalles de impresión son visibles

CARACTERÍSTICAS

- Lavable
- Baja viscosidad
- Alta precisión
- a innovar hoy? Equilibrio de resistencia, tenacidad y rigidez
- Baja viscosidad, alta tasa de liberación, fácil de imprimir
- 500 gramos



AG Electrónica SAPI de CV República del Salvador Nº 20 2do Piso. Teléfono: 55 5130 - 7210 http://www.agelectronica.com

| Realizó | AGN |
|---------|------------|
| Revisó | JMLM |
| Fecha | 08/12/2023 |



ESPECIFICACIONES

| | Resina para impresión 3D | | Resina lavable con agua |
|---------|---|--------------|-------------------------|
| | Viscosidad (mPa·s) | 110-180 | |
| | Densidad (g/cm ³) | 1.10-1.14 | |
| | Resistencia a la tracción (MPa) | 19-46 | |
| | Alargamiento de rotura (%) | 17-30 | |
| | Resistencia a la flexión (MPa) | 15-50 | |
| | Fuerza de impacto (J/m) | | 37-97 |
| | Resistencia al desgarro (GPa) | I | |
| | Temperatura de distorsión de ca (°C) | 1 | |
| | Dureza (Shore D) | 74-82 | |
| CALIFIC | ACIONES (SOBRE 10) | | |
| | Fuerza (S) | | 6 |
| | Dureza (F) | | |
| | Formación (P) | 8 | |
| | Presión (S) | | 8 |
| | Velocidad (A) | innovar hoy? | |



AG Electrónica SAPI de CV República del Salvador N° 20 2do Piso. Teléfono: 55 5130 - 7210 http://www.agelectronica.com

| Realizó | AGN |
|---------|------------|
| Revisó | JMLM |
| Fecha | 08/12/2023 |





APLICACIONES





AG Electrónica SAPI de CV República del Salvador N° 20 2do Piso. Teléfono: 55 5130 - 7210 http://www.agelectronica.com

| Realizó | AGN |
|---------|------------|
| Revisó | JMLM |
| Fecha | 08/12/2023 |







| Report No. | NB2022054062 | Date: | June 23, 2022 | Page: 1/9 | |
|---------------|---------------|--|-----------------------------------|---------------------|--|
| | | | | | |
| Applicant Nan | ne : | SHENZHEN ES | SUN INDUSTRIAL CO., LTD. | | |
| Applicant Add | iress : | WUHAN UNIVERSITY BUILDING A401, NO.6 YUEXING 2 ROAD, | | | |
| | | NANSHAN DIS | TRICT, SHENZHEN, CHINA 5180 |)57 | |
| Product Name | e : | Water Washabl | e Resin | | |
| Received Date | e : | May 30, 2022 | | | |
| Compilation F | Period : | May 30, 2022 t | to June 23, 2022 | | |
| Regulatory Re | equirements : | As requested | by the applicant, the Safety Data | a Sheet is prepared | |
| | | according to | Globally Harmonized System of | Classification and | |
| | | Labelling of Ch | emicals (GHS) Rev_9(2021). | | |



This report cannot be reproduced partly, without prior written permission of Laboratory. Any unauthorized alteration, forgery or falsification of the content of this document is unlawful. Unless otherwise stated the results shown in this test report refer only to the sample (s) tested.

| Tel: 400-877-6107 | Website: www.nbtscn.com |
|--------------------|----------------------------|
| Fax: 0769-22777508 | E-mail: newbest@nbtscn.com |



| Report No. | NB2022054062 | | Date: | June 23, 2022 | Page: 2/9 | | |
|--------------------------|--|---|---------------|-------------------------------|-----------|--|--|
| SECTION 1. I | SECTION 1. Identification of the substance/preparation and company | | | | | | |
| 1.1 Product | Identification | : | Water Washabl | e Resin | | | |
| 1.2 Model N | 0. | : | 1 | | | | |
| 1.3 Recomm | nended Use | : | 3D Printing | | | | |
| 1.4 Manufac | 1.4 Manufacturer Name : SHENZHEN ESUN INDUSTRIAL CO., LTD. | | | | | | |
| 1.5 Manufacturer Address | | : | WUHAN UNIV | ERSITY BUILDING A401, NO.6 YU | JEXING 2 | | |
| | | | ROAD, NANSH | AN DISTRICT, SHENZHEN, CHINA | 518057 | | |
| 1.6 Manufac | turer Tel | : | 86-755-260319 | 79 | | | |
| 1.7 Manufac | turer Fax | : | 1 | | | | |
| 1.8 Manufac | turer Email | : | BRIGHT@BRIG | GHTCN.NET | | | |
| 1.9 Emerger | ncy Phone | : | 1 | | | | |

SECTION 2. Hazards identifications

2.1 Hazard Class:

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) (part

2~4), classification of risk categories.

Acute toxicity, oral, categories 4

Skin corrosion/irritation, categories 2

Sensitisation, skin, categories 1

Serious eye damage/eye irritation, categories 2

2.2 Pictograms:



2.3 Signal word:

Warning

2.4 Hazard description:

H302 Harmful if swallowed



This report cannot be reproduced partly, without prior written permission of Laboratory. Any unauthorized alteration, forgery or falsification of the content of this document is unlawful. Unless otherwise stated the results shown in this test report refer only to the sample (s) tested.

| Tel: 400-877-6107 | Website: www.nbtscn.com |
|--------------------|----------------------------|
| Fax: 0769-22777508 | E-mail: newbest@nbtscn.com |



| Report No. | NB2022054062 | Date: | June 23, 2022 | Page: 3/9 |
|---------------|---------------------------|-----------|---------------|-----------|
| H315 Ca | uses skin irritation. | | | |
| | / cause an allergic skir | reaction. | | |
| H319 Cau | uses serious eye irritati | on | | |
| 2.5 Precautio | nary description: | | | |
| | ah hand and face there | | -112 | |

P264 Wash hand and face thoroughly after handling

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

2.6 Other hazard

PBT and vPVB: None

e ..

SECTION 3. Composition / information on ingredients

| Substance name | Conc. (%) | CAS. No |
|--|-----------|--------------------|
| Urethane acrylate | 39 | 68987-79-1 |
| Epoxy acrylate | 9 | 71281-65-7 |
| AcryloyImorpholine | 15 | 5117-12-4 |
| Ethoxylated trimethylolpropane triacrylate | 31 | 28961-43-5 |
| Trimethylbenzoyldiphenylphosphine oxide | 4 | 75980-60-8 |
| UV Color pigment | 1 | 1333-86-4/482-89-3 |
| BYK 1794 | 1 | 128-37-0 |

SECTION 4. First aid measures

General advice: Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

4.1 Following inhalation:

Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately



This report cannot be reproduced partly, without prior written permission of Laboratory. Any unauthorized alteration, forgery or falsification of the content of this document is unlawful. Unless otherwise stated the results shown in this test report refer only to the sample (s) tested.

| Tel: 400-877-6107 | Website: www.nbtscn.com |
|--------------------|----------------------------|
| Fax: 0769-22777508 | E-mail: newbest@nbtscn.com |



| Report No. | NB2022054062 | Date: | June 23, 2022 | Page: 4/9 |
|--------------|---------------|-------|----------------|------------|
| rtoport rto. | TTDZ0ZZ00+00Z | Duto. | 00110 20, 2022 | i ugo. 4/0 |

4.2 Following skin contact:

Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feeling uncomfortable.

4.3 Following eye contact:

In case of contact may cause irritation, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician immediately if eyes are hurt.

4.4 Following ingestion:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

SECTION 5. Firefighting measures

5.1 Hazardous Characteristics:

No hazardous characteristics.

5.2 Extinguishing Media:

Dry powder, Chemical foam, Carbon dioxide, water mist.

5.3 Firefighting procedures:

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.

Take all precautions to avoid mixing with combustibles.

5.4 Hazardous combustion products:

Carbon monoxide, organic volatiles

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective measures (SEE SECTION 8).

6.2 Environmental precautions:

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.



This report cannot be reproduced partly, without prior written permission of Laboratory.Any unauthorized alteration, forgery or falsification of the content of this document is unlawful. Unless otherwise stated the results shown in this test report refer only to the sample (s) tested.

| Tel: 400-877-6107 | Website: www.nbtscn.com |
|--------------------|----------------------------|
| Fax: 0769-22777508 | E-mail: newbest@nbtscn.com |



| Report No. | NB2022054062 | Date: | June 23, 2022 | Page: 5/9 |
|------------|--------------|-------|---------------|-----------|
| Report No. | ND2022034002 | Date. | June 23, 2022 | Faye. 3/9 |

6.3 Cleaning method:

Remove by liquid absorbing material (e.g. kieselguhr). Adhered or collected material should be promptly disposed of. Disposal of discarded waste/pollutants refers to SECTION 13.

SECTION 7. Safe handling and storage

7.1 Handling Notes:

Keep indoor ventilation or local exhaust device.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Use only outdoors or in a well-ventilated area.

7.2 Storage Notes:

Stored in cool and dry condition.

Do not store with incompatible material (see section 10.2)

SECTION 8. Exposure controls / personal protection

8.1 Occupational Exposure Limit:

No relevant data

8.2 Engineering Control:

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Ensure that eyewash stations and safety showers are proximal to the work-station location.

8.3 Personal Protection:

| | General requirement: | |
|--|----------------------|--|
| | | If exposure limits are exceeded or if irritation or other symptoms are |
| | Respiratory: | experienced, use a full-face respirator with multi-purpose combination |
| | | (US) or type AXBEK (EN 14387) respirator cartridges. |



This report cannot be reproduced partly, without prior written permission of Laboratory. Any unauthorized alteration, forgery or falsification of the content of this document is unlawful. Unless otherwise stated the results shown in this test report refer only to the sample (s) tested.

| Tel: 400-877-6107 | Website: www.nbtscn.com |
|--------------------|----------------------------|
| Fax: 0769-22777508 | E-mail: newbest@nbtscn.com |



| R | eport No. | NB202205406 | 2 Date: | June 23, 2022 | Page: 6/9 |
|---|-----------|-------------|---|--------------------------------|-----------|
| | | | | | |
| | Eye | s: V | Vear protective gog | gle (Conform to EC EN 166 or U | S-NIOSH). |
| | Hand | ds: | Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard. | | 0 |

8.4 Sanitary Measure:

Forbid smoking, eating and drinking in working places. Washing hands after handling products.

SECTION 9. Physical and chemical properties

| | Light Cray/M/bits/Claser/Mallay//Daash Duff/Dlask/ |
|-------------------------------------|--|
| | Light Gray/White/Clear/Yellow/Peach Puff/Black/ |
| Appearance and Color | Sky Blue/Transparent Green/Transparent Red/Gray/ |
| | Beige/Blue/Red liquid |
| Odour | Slight,ester-like |
| PH value | 5.7 |
| Flammability | Noncombustible |
| Density(g/cm³) | 1.109 (25°C) |
| Relative steam density (air = 1) | No Data |
| Vapor pressure(MPa) | No Data |
| Octanol/water partition coefficient | No Data |
| Viscosity | 100-200mPa⋅s (25°C) |
| Flash point(°C,Closed cup) | >380 |
| Boiling point(°C) | No Data |
| Melting point (°C) | No Data |
| Evaporation rate (kg/s) | No Data |
| UEL %(V/V) | Not Applicable |
| LEL %(V/V) | Not Applicable |
| Auto-ignition temperature(°C) | No Data |
| Decomposition temperature(°C) | No Data |
| Qalukiita | Soluble in ethanol, ethyl acetate, benzene and other |
| Solubility | organic solvents, dispersible in water |



This report cannot be reproduced partly, without prior written permission of Laboratory. Any unauthorized alteration, forgery or falsification of the content of this document is unlawful. Unless otherwise stated the results shown in this test report refer only to the sample (s) tested.

| Tel: 400-877-6107 | Website: www.nbtscn.com |
|--------------------|----------------------------|
| Fax: 0769-22777508 | E-mail: newbest@nbtscn.com |



| Report No. | NB2022054062 | Date: | June 23, 2022 | Page: 7/9 |
|---|---|---|--|------------------------------------|
| SECTION 10. | Stability and read | tivity | | |
| 10.1 Stability: | - | | | |
| - | | torage and hand | ling conditions (See section 7). | |
| 10.2 Material | for avoiding: | | | |
| Strong ox | xide, acid and alkali, | Strong reducing | agent. | |
| 10.3 Contact | conditions for avoi | ding: | | |
| Sunlight, | high temperature. | | | |
| 10.4 Hazardou | us decomposition | products: | | |
| Under nor | mal conditions of sto | orage and use, h | azardous decomposition products | should not be produced. |
| | | | | |
| SECTION 11. | Toxicological info | ormation | | |
| 11.1 Acute to | xicity: | | | |
| AcryloyImo | orpholine (CAS: 511 | 7-12-4) LD50=23 | 370mg/kg, oral, rat | |
| 11.2 Skin co | rrosion/irritation: | | | |
| Skin irritati | ion | | | |
| 11.3 Serious e | eye damage/irritati | on: | | |
| Eye irritati | on | | | |
| 11.4 Respirate | ory or skin sensitis | sation: | | |
| Sensitisati | ion, skin, categories | 1 | | |
| 11.5 Germ cel | II mutagenicity: | | | |
| Based on | Based on available data, the classification criteria are not met. | | | |
| 11.6 Carcinog | jenicity: | | | |
| Based on | available data, the c | classification crite | eria are not met. | |
| 11.7 Reproductive toxicity: | | | | |
| Specific target organ toxicity, single exposure; Respiratory tract irritation, categories 3 | | | | |
| 11.8 STOT-single exposure: | | | | |
| Specific target organ toxicity, single exposure; Respiratory tract irritation, categories 3 | | | | |
| 11.9 STOT-repeated exposure: | | | | |
| 检验检测 Laspection Lin GUANOONG NEV | alterati shown No.1, & WBEST TETING Tel: 40 | ion,forgery or falsification in this test report refer B/F, Shengfeng Road, Ve 00-877-6107 | duced partly, without prior written permission on of the content of this document is unlawful. Un only to the sample (s) tested. enture Industrial Park, Xinhe Community,Wanjiar Website: www.nbtscn.com | nless otherwise stated the results |
| SERVICEN | Fax: 0 | 769-22777508 | E-mail: newbest@nbtscn.com | |



| Report No. | NB2022054062 | Date: | June 23, 2022 | Page: 8/9 |
|------------|--------------|-------|---------------|-----------|
| | | | | |

Specific target organ toxicity, single exposure; Respiratory tract irritation, categories 3

11.10 Aspiration hazard.:

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

SECTION 12. Ecological information

12.1 Toxicity:

No data available.

12.2 Persistence and degradability:

No data available.

12.3 Bioaccumulative potential:

No data available.

12.4 Mobility in soil

No data available.

12.5 Other Dangers:

PBT and vPVB evaluation results: Not applicable

SECTION 13. Disposal considerations

13.1 Handling method for waste:

Handling waste according to the local regulations. Contact specific waste disposal company or companies recommended by local laws.

13.2 Handling method for uncleaned packaging

Processing as general waste processing after the empty container.

SECTION 14. Transport information

Land transport(ADG): Not regulated for transport of dangerous goods.

Air transport(ICAO-IATA/DGR): Not regulated for transport of dangerous goods.

Sea transport(IMDG-Code/GGVSee): Not regulated for transport of dangerous goods.

Transport in bulk according to Annex II of MARPOL and the IBC code. Transport within user's premises:

always transport in closed containers that are upright and secure. Ensure that persons transporting the



This report cannot be reproduced partly, without prior written permission of Laboratory.Any unauthorized alteration, forgery or falsification of the content of this document is unlawful. Unless otherwise stated the results shown in this test report refer only to the sample (s) tested.

| Tel: 400-877-6107 | Website: www.nbtscn.com |
|--------------------|----------------------------|
| Fax: 0769-22777508 | E-mail: newbest@nbtscn.com |



| Report No. | NB2022054062 | Date: | June 23, 2022 | Page: 9/ |
|---------------|-----------------------|-------------------|---------------|----------|
| roduct know v | what to do in the eve | nt of an accident | or spillago | |
| | | | or spillage. | |
| Packagin | ng Label | None | | |
| UN NO | | None | | |
| Technica | ıl name | None | | |
| Transpor | rt hazard class | None | | |
| Subsidia | ry hazard class | None | | |
| Packing | group | None | | |
| Special F | Provisions | None | | |

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations / laws for pure substances or mixtures

Catalogue of hazardous chemicals (2015 Edition)

Not included in the list.

15.2 Safety assessment of chemical substances

Not evaluated

SECTION 16. Other information

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the result of its use, this information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.



This report cannot be reproduced partly, without prior written permission of Laboratory. Any unauthorized alteration, forgery or falsification of the content of this document is unlawful. Unless otherwise stated the results shown in this test report refer only to the sample (s) tested.

| Tel: 400-877-6107 | Website: www.nbtscn.com |
|--------------------|----------------------------|
| Fax: 0769-22777508 | E-mail: newbest@nbtscn.com |