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



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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?	



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APLICACIONES





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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).		



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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



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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



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Report No.	NB2022054062	Date:	June 23, 2022	Page: 4/9
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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.



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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.



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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



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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
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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



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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.



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