SECTION 1: Identification of the substance/preparation and of the company / undertaking

(a) GHS product identifier

(e) Emergency phone number

Garreco Print Model 3D Ultra Resin

CHEMTRAC 1-800-424-9300

CCN9105

(b) Other means of identification

N/A

(c) Recommended use of the chemical and restrictions on use

For professional 3D printing for dental applications.

(d) Supplier's details

Garreco, LLC. PO Box 1258

Heber Springs, AR 72543 Phone: 1-800-334-1443

SECTION 2: Hazards identification

(a) GHS classification of the substance/mixture

Aquatic Chronic 4: Hazardous to the aquatic environment, long-term hazard, Category 4, H413 Skin Sens. 1B: Sensitisation, skin, Category 1B, H317

(b) Label Elements

Hazard statements

Aquatic Chronic 4: H413 - May cause long lasting harmful effects to aquatic life.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

Precautionary statements

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P272: Contaminated work dothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

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

P302+P352: IF ON SKIN: Wash with plenty of water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attent ion.

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Hazard Symbol(s) Signal Word(s)
Exclamation Mark Warning

(c) Other hazards which do not result in classification

Contains diisodecyl phenyl phosphite, Diphenyl (2,4,6-t rimethylbenzoyl) phosphine oxide, pentaerythritol tetraacrylate. Product fails to meet PBT/vPvB criteria

Form No. A852

3.10.20-FM **REVISION 1** Date Prepared: 3/8/2023

SECTION 3: Composition/information on ingredients

| | (c) CAS No. | Mixture: Concentration (Percentage) |
|---|---|--|
| Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid | 41637-38-1 | 85 - <100 % |
| Pentaerythritol tetraacrylate | 4986-89-4 | 3 - 9% |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 | 0.5 - <2 % |
| Diisodecyl phenyl phosphite | 25550-98-5 | 0.1 - <0.5% |
| Cyclohexane | 110-82-7 | <0.01 - 0.1% |
| Toluene | 108-88-3 | <0.01 - 0.1% |
| N-butyl acetate | 123-86-4 | <0.01% |
| Phenol | 108-95-2 | <0.01% |
| | ethoxylated and 2-methylprop-2-enoic acid Pentaerythritol tetraacrylate Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Diisodecyl phenyl phosphite Cyclohexane Toluene N-butyl acetate | Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid Pentaerythritol tetraacrylate Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Diisodecyl phenyl phosphite Cyclohexane 110-82-7 Toluene 108-88-3 N-butyl acetate (c) CAS No. 41637-38-1 41637-38-1 4986-89-4 1980-60-8 75980-60-8 110-82-7 108-88-3 |

SECTION 4: First-aid measures

(a) Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation: This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact: Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact: Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after deaning, a doctor should be consulted as quickly as possible with the SDS for the product.

By ingestion/aspiration: Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

(b) Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

(c) Indication of any immediate medical attention and special treatment needed:

ND

REVISION 1 Date Prepared: 3/8/2023

SECTION 5: Fire-fighting measures

(a) Suitable extinguishing media:

Form No. A852

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

(b) Special hazards arising from the chemical or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

(c) Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective d othing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit, ...) in accordance with Directive 89/654/EC.

SECTION 6: Accidental release measures

(a) Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

(b) Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

(c) Methods and material for containment and cleaning up:

It is recommended: Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

SECTION 7: Handling and storage

(a) Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B. - Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks, ...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

(b) Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5° C Maximum Temp.: 30° C

B. - General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food.

SECTION 8: Exposure controls/Personal protection

(a) Control parameters:

| Chemical | ACGIH TLV-TWA | OSHA PEL TWA |
|-----------------|--------------------|-----------------------------------|
| Cyclohexane | 100 ppm | 300 ppm (1050 mg/m ³) |
| Toluene | 20 ppm | 200 ppm |
| N-butyl acetate | 50 ppm (238 mg/m³) | 150 ppm (710 mg/m³) |
| Phenol | 5 ppm (19 mg/m³) | 5 ppm (19 mg/m³) |

(b) Appropriate Engineering Controls:

Provide emergency shower and eyewash stations in case of exposure.

(c) Individual protection measures:

MANDATORY RESPIRATORY: Wear, at minimum, a NIOSH/OSHA approved half-face respirator with a vapor filter that conforms to EN 405:2002+A1:2010. Replace filter when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

MANDATORY HAND PROTECTION: Use nitrile based protective gloves against minor risks. Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+ A1:2010 and EN ISO 374-1:2016+A1:2018

MANDATORY FACE PROTECTION: Use panoramic glasses against splash/projections. Clean daily and disinfect periodically according to the manufacturer 's instructions. use if there is a risk of splashing. Recommend using protection conforming to EN 166:2022 EN ISO 4007:2018.

SECTION 9: Physical and chemical properties (a) Appearance: Viscous Liquid (b) Odor: Resin (c) Odor threshold: ND ~ 6 - 8 (at 100%) (d) pH: (e) Melting point / freezing point: 1,450 Degrees Celsius (f) Initial boiling point and boiling range: (g) Flash point Non Flammable (>60° C) (h) Evaporation rate (BuAc=1): ND (i) Flammability: ND ND (j) Upper/lower flammability or explosive limits: (k) Vapor Pressure: ND (I) Density at 20° C: 1126.4 kg/m³ (m) Relative density: 1.13 (n) Solubility: ND (o) Partition coefficient: n-octanol/water: ND (p) Auto-ignition temperature: 260° C (q) Decomposition temperature: ND (r) Viscosity: ND SECTION 10: Stability and reactivity No hazardous reactions are expected because the product is stable under (a) Reactivity: recommended storage conditions. See section 7. Stable (b) Chemical stability: (c) Possibility of hazardous reactions: Low Avoid strong acids, alkalis, or strong bases. Avoid Impact to Oxidizing (d) Conditions to avoid: materials. Depending on the decomposition conditions, complex mixtures of chemical (f) Hazardous decomposition products: substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds. **SECTION 11: Toxicological information Acute toxicity** Based on available data, classification is not met, however, does contain substances to this effect Skin corrosion/irritation Based on available data, classification is not met, however, does contain substances to this effect Serious Eye Damage / Irritation Based on available data, classification is not met, however, does contain substances to this effect Respiratory or skin sensitization Based on available data, classification is not met, however, does contain substances to this effect Germ cell mutagenicity Based on available data, classification is not met, however, does contain substances to this effect Carcinogenicity Based on available data, classification is not met, however, does contain substances to this effect Reproductive toxcicity Based on available data, classification is not met, however, does contain substances to this effect STOT-single exposure Based on available data, classification is not met, however, does contain substances to this effect STOT-repeated exposure Based on available data, classification is not met, however, does contain substances to this effect **Aspiration Hazard** Based on available data, classification is not met, however, does contain substances to this effect

(a) Exposure route: inhalation, skin and/or eye contact

(b) Symptoms related to the physical, chemical and toxicological characteristics:

difficulty breathing, rashes or irritations

(c) Delayed and immediate effects and also chronic effcts from short and long tem exposure:

difficulty breathing, rashes or irritations

REVISION 1

Date Prepared: 3/8/2023

REVISION 1 3.10.20-FM Date Prepared: 3/8/2023

SECTION 11: Toxicological information (Continued)

(d) Numerical measures of toxicity:

| CHEMICAL | CAS NO. | LD50 ORAL | LD50 DERMAL | LC50 INHALATION |
|---|------------|-------------------|-------------------------|--------------------|
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 | 5500 mg/kg (rat) | N/A | N/A |
| Cyclohexane | 110-82-7 | 5100 mg/kg (rat) | N/A | N/A |
| Toluene | 108-88-3 | 5580 mg/kg (rat) | 12124 mg/kg (rat) | 28.1 mg/L (4h rat) |
| N-butyl acetate | 123-86-4 | 12789 mg/kg (rat) | 14112 mg/kg (rabbit) | 23.4 mg/L (4h rat) |
| Phenol | 108-95-2 | 100 mg/kg (rat) | 630 mg/kg (rabbit) | N/A |

SECTION 12: Ecological information

(a) Ecotoxicity:

| CHEMICAL | ACUTE TOXICITY | | TIME (HOURS) | GENUS |
|---|----------------|---------------|--------------|------------|
| | LC50 | >1 - 10 mg/L | 96 | FISH |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | EC50 | >1 - 10 mg/L | 48 | CRUSTACEAN |
| | EC50 | >1 - 10 mg/L | 72 | ALGAE |
| | LC50 | >0.1 - 1 mg/L | 96 | FISH |
| Cyclohexane | EC50 | >0.1 - 1 mg/L | 48 | CRUSTACEAN |
| | EC50 | >0.1 - 1 mg/L | 72 | ALGAE |
| | LC50 | 13 mg/L | 96 | FISH |
| Toluene | EC50 | 11.5 mg/L | 48 | CRUSTACEAN |
| | EC50 | 125 mg/L | 48 | ALGAE |
| | LC50 | 62 mg/L | 96 | FISH |
| N-butyl acetate | EC50 | 73 mg/L | 24 | CRUSTACEAN |
| | EC50 | 675 mg/L | 72 | ALGAE |
| | LC50 | 14 mg/L | 96 | FISH |
| Phenol | EC50 | 12 mg/L | 24 | CRUSTACEAN |
| | EC50 | 370 mg/L | 96 | ALGAE |

(b) Persistence and degradability:

| CHEMICAL | DEGRADABILITY | | BIODEGRADABILITY | |
|-----------------|---------------|----------------|------------------|----------------|
| | BOD5 | Non-applicable | CONCENTRATION | 100 mg/L |
| Cyclohexane | COD | Non-applicable | PERIOD | 28 days |
| | BOD5/COD | Non-applicable | % BIODEGRADABLE | 0% |
| | BOD5 | 2.5 g O2/g | CONCENTRATION | 100 mg/L |
| Toluene | COD | Non-applicable | PERIOD | 14 days |
| | BOD5/COD | Non-applicable | % BIODEGRADABLE | 100% |
| | BOD5 | Non-applicable | CONCENTRATION | Non-applicable |
| N-butyl acetate | COD | Non-applicable | PERIOD | 5 days |
| | BOD5/COD | Non-applicable | % BIODEGRADABLE | 84% |
| Phenol | BOD5 | 1.68 g O2/g | CONCENTRATION | 100 mg/L |
| | COD | 2.33 g O2/g | PERIOD | 14 days |
| | BOD5/COD | 0.72 | % BIODEGRADABLE | 85% |

REVISION 1 3.10.20-FM Date Prepared: 3/8/2023

SECTION 12: Ecological information (CONTINUED)

(c) Bioaccumulative potential

| CHEMICAL | CHEMICAL BIOACCUMULATION P | | |
|-----------------|----------------------------|----------|--|
| | BCF | 66 | |
| Cyclohexane | POW LOG | 3.44 | |
| | POTENTIAL | MODERATE | |
| | BCF | 13 | |
| Toluene | POW LOG | 2.73 | |
| | POTENTIAL | LOW | |
| | BCF | 4 | |
| N-butyl acetate | POW LOG | 1.78 | |
| | POTENTIAL | LOW | |
| | BCF | 17 | |
| Phenol | POW LOG | 1.48 | |
| | POTENTIAL | LOW | |

(d) Mobility in soil:

| (d) Mobility in soil: CHEMICAL | ABSORPTION | /DESORPTION | VOLATILITY | |
|---------------------------------|--------------------|-----------------------------|------------|---|
| | KOC | Non-applicable | HENRY | Non-applicable |
| Cyclohexane | CONCLUSION | Non-applicable | DRY SOIL | Non-applicable |
| | SURFACE TENSION | 2.465E-2 N/m (25° C) | MOIST SOIL | Non-applicable |
| | кос | 178 | HENRY | 672.8 Pa [·] m ³ /mol |
| Toluene | CONCLUSION | Moderate | DRY SOIL | Yes |
| | SURFACE TENSION | 2.793E-2 N/m (25° C) | MOIST SOIL | Yes |
| | кос | Non-applicable | HENRY | Non-applicable |
| N-butyl acetate | CONCLUSION | Non-applicable | DRY SOIL | Non-applicable |
| | SURFACE TENSION | 2.478E-2 N/m (25° C) | MOIST SOIL | Non-applicable |
| | кос | 50 | HENRY | 2.2 Paˈm³/mol |
| Phenol | CONCLUSION | Very High | DRY SOIL | Yes |
| | SURFACE TENSION | 1.847E-2 N/m (231.01° C) | MOIST SOIL | Yes |

Product fails to meet PBT /vPvB criteria

(e) Other adverse effects:

Not described

SECTION 13: Disposal considerations

| CODE | DESCRIPTION | WASTE CLASS (Regulation (EU) No. 1357 / 2014) |
|----------|---|--|
| 20 01 27 | paint, inks, adhesives and resins containing hazardous substances | Dangerous |

TYPE OF WASTE (Regulation (EU) No 1357 / 2014)

HP14 Ecotoxic

Consult with local waste authorities, regulations, and/or a authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. otherwise, it will be processed as non-dangerous residue.

We do not recommended disposal down the drain. In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

| SECTION 14: Transport information | | | | |
|--|---|--|--|--|
| (a) UN Number | This product is not regulated as a hazardous material by neither the United States (DOT) Transportation regulations nor Canadian Transportation of Dangerous Goods. | | | |
| (b) UN Proper shipping name | NA | | | |
| (c) Transport hazard class(es) | NA | | | |
| (d) Packing Group (e) Environmental hazards | NA | | | |
| (f) Transport in bulk | NA NA | | | |
| (g) Other Information | NA | | | |
| SECTION 15: Regulatory information | | | | |
| SARA Reporting Requirements: | NA | | | |
| SARA Threshold Planning Quantity: | NA | | | |
| TSCA Inventory Status: | ND | | | |
| Other Federal Requirements: | NA | | | |
| Other Canadian Regulations: | NA NA | | | |
| State Regulatory Information: | INA | | | |

REVISION 1

3.10.20-FM REVISION 1
Safety Data Sheet Date Prepared: 3/8/2023

Form No. A852

SECTION 16: Other information

PREPARED BY: Kristofer Mainar

GAR QMS SDS REFERENCE: A851

REVISION NUMBER: 220308

CHANGES FROM PREVIOUS VERSION: INITIAL VERSION

ABBREVIATIONS

NA Not Applicable LD Lethal Dose
ND Not Determined TC Toxic Concentration

NE Not Established TD Toxic Dose

ppm parts per million BOD Biological Oxygen Demand G Gallon COD Chemical Oxygen Demand

mg Milligram Lo Lowest

L Liter ThOD Theoretical Oxygen Demand

gm Gram TLm Threshold Limit
mol Mole IC Inhibitory Concentration
kg Kilogram DOC Dissolved Organic Carbon

μ Micro H Hours
mm Millimeter M Months
p Pico D Days
Pa Pascals Y Years
c cento W Weeks

LC Lethal Concentration

ACGIH American Conference of Governmental Industrial Hygienist

CPR Controlled Product's Regulation
DSL Canadian Domestic Substances List
NDSL Canadian Non-domestic Substance List
IARC International Agency for Research for Cancer

NOEL No Observed Effect Level

NOAEL No Observed Adverse Effect Level

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit TLV Threshold Limit Value

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200) OFCHEMICALS AND THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING REVISION 5. ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.

Page 9 of 9