SAFETY DATA SHEET

PRODUCT NAME: CarbonBond 1C Adhesive	**November 2024**

1. PRODUCT AND COMPANY IDENTIFICATION

Identification of the Substance or Preparation

Commercial Product Name: CarbonBond 1C Adhesive

Manufacturer:
Chemical Concepts
410 Pike Road.
Huntingdon Valley, PA 19006
PHONE: 800.220.1966 FAX: 215.357.2754
IN CASE OF EMERGENCY — INFOTRAC: 1.800.535.5053
General Description: Hybrid Elastomeric Sealant / Adhesive Physical Form:
Paste Color: White
Odor: Slight odor

NFPA PROFILE: Health 1 Flammability 1 Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

2. HAZARDS IDENTIFICATION

Classification Of The Substance Or Mixture: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification (GHS):

Class	Category	Route Of Exposure
Reproductive Toxicity	Category 2 (developmental toxicity)	
Harmful to Aquatic Life	Category 2	
Skin Irritation	Category 1	
Serious Eye Damage / Eye Irritation	Category 2	

GHS Label Elements
Signal Word: Warning

H-Code Hazard Statements.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.

H318	Causes serious eye injury.
H361d	Suspected of damaging the unborn child.
P-Code	Precautionary Statements.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing / eye protection.
P302 + P352	If on skin: Wash with plenty of soap and water.
P305 + P351	If in eyes: Rinse with water for several minutes.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents /container in accordance with local regulation.

3. COMPOSITION/ INGREDIENTS

Information On Ingredients:

CAS #	COMPONENT	PERCENT
1317-65-3	Calcium Carbonate	35 – 55%
1760-24-3	Amino Silane	0.5 – 5%
2768-02-7	Vinyltrimethoxysilane	0.5 – 5%
13463-67-7	Titanium Dioxide	4 – 10%
----------	Proprietary Polymers	15 – 30%

Hazardous Ingredient: Amino Silane & Vinyltrimethoxysilane.

4. FIRST AID MEASURES

General Information: Get medical attention immediately if irritation or symptoms occur. Before seeking medical remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

After Inhalation: If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Consult a physician.

After Contact With The Skin: If contact with skin, immediately flush skin with plenty of water for at least 15 min. Wash with soap and water.

After Contact With Eyes: If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min. Consult a physician.

After Swallowing: For ingestion, if conscious, give no more than two glasses of water but do not induce vomiting. If vomiting does occur, give additional fluids. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

Flammable Properties:		Method
Flash Point…….:	Not applicable (solid)	(ISO 2692)
Upper Flammable Limit…….:	Not applicable	
Lower Flammable Limit (LEL)…….:	Not applicable	

Autoignition Temperature.....: Not applicable
Sensitivity to Impact.....: Not applicable
Sensitivity to Discharge.....: Not applicable
Fire and Explosion Hazards:

Recommended Extinguishing Media: Water mist, carbon dioxide, dry chemical or alcohol resistant foam.
Unsuitable Extinguishing Media: Sharp water jet.
Special Exposure Hazards Arising From The Substance Or Preparation Itself, Combustion Products, Resulting Gases: Hazardous decomposition products: carbon dioxide, carbon monoxide and incompletely burnt hydrocarbons.
Fire Fighting Procedures: Cool endangered containers with water. Fire fighters should wear full protective clothing including a self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Precautions: Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Avoid inhaling mists and vapors.

Containment: Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free number (800) 424-8802.

Methods For Cleaning Up: Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner. Exhaust vapors.

7. HANDLING AND STORAGE

Handling
Precautions For Safe Handling: Ensure adequate ventilation. Avoid contact with skin and eyes. Do not eat drink or smoke when using this product. Always wear protective clothing and eye protective equipment. Wash thoroughly after use.

Precautions Against Fire And Explosion: Product is not considered flammable under normal conditions, and product is not considered explosive.

Storage
Conditions For Storage Rooms And Vessels: Make sure there is no possibility of entering the ground.

Advice For Storage Of Incompatible Materials: Store in cool area.
Further Information For Storage: Protect against moisture. Store in original container only. Keep container tightly closed and store in a cool, well ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls
Ventilation: Use with adequate ventilation. Recommended.
Local Exhaust: In case of potential decomposition products: Local exhaust ventilation which meets the requirements of ANSI Z9.2 is recommended to control airborne containments at the point of use. (To maintain concentration below TLV).

Component Exposure Limits

MATERIAL	CAS #	TYPE	mg/m^3	DUST
Calcium Carbonate	1317-65-3	OSHA TWA	15 5	Total Respirable
Calcium Carbonate	1317-65-3	NIOSH	10 5	Total Respirable
Titanium Dioxide	13463-67-7	ACGIH TWA	10	---------
Titanium Dioxide	13463-67-7	OSHA	15	Total

Personal Protection Equipment (PPE)
Respiratory Protection: Respiratory protection is not normally required. A NIOSH approved air purifying respirator equipped with universal multi-containment, multi –gas/vapor cartridges and at least P-99 solid/aerosol particulate filters is recommended if overexposure to dusts, mists, or vapors could occur.
Hand Protection: Any liquid-tight rubber or vinyl rubber protective gloves.
Eye Protection: Safety glasses with side shields. Additional eye and face protection, splash-proof goggles, hood, full-faced respirator, or face shield is recommended if splashing occur.
Other Protective Clothing Or Equipment: Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.
General Hygiene And Protection Measures: Avoid contact with eyes, skin and clothing. Avoid breathing dust/vapor/mist/gas/aerosol. Do not eat, drink or smoke when handling. Follow standard industrial hygiene practices when using this material. Wash thoroughly after handling.

9. PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance
Physical State/Form.....: Paste
Color.....: White
Odor.....: Slight odor
Specific Gravity.....: 1.66

Safety Parameters		METHOD
Melting Point/Melting Range…:	Not applicable	
Boiling Point/Boiling Range……:	Not applicable	
Flash Point……:	>200˚C (>392˚F)	(ISO 2592)
Ignition Temperature……:	Not determined	
Lower Explosion Limit (LEL)…..:	Not determined	
Vapor Pressure……..:	< 1	
Vapor Density (Air=1)……:	> 1	
Density……:	12.29 lbs. / gallon	
Water Solubility/Miscibility……:	Not applicable	
pH-Value……..:	Not applicable	
VOC Content……:	18 grams per liter	

10. STABILITY AND REACTIVITY

General Information: If stored and handled in accordance with standard industrial practices no hazardous reactions are known.
Reactivity: No reactivity hazard is expected.
Chemical Stability: Stable at normal temperatures and pressure.
Conditions To Avoid: Avoid heat, flames and sparks. Avoid contact with incompatible materials.
Incompatible Materials: Strong acids, strong oxidizing materials.
Hazardous Decomposition Products: Upon decomposition, this product emits carbon monoxide, carbon dioxide and or low molecular weight hydrocarbons.
Hazardous Decomposition (Combustion):Upon decomposition, this product emits carbon monoxide, carbon dioxide and or low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Product Details: Amino Silane (CAS # 1760-24-3)

Route of exposure	Result/Effect	Species/Test System	Source
Oral	LD_{50}:>2000 mg/kg	Rat	Conclusion by analogy
Dermal	LD_{50}:>2000 mg/kg	Rat	Conclusion by analogy

Acute Toxicity
Product Details: Vinyltrimethoxysilane (CAS # 2768-02-7)

Route of Exposure	Result/Effect	Species/Test System	Source
Oral	LD_{50}:>2000 mg/kg	Rat	Conclusion by analogy
Dermal	LD_{50}:>2000 mg/kg	Rat	Conclusion by analogy

Acute Toxicity
Product Details: Titanium Dioxide (CAS# 13463-67-7) Light & Neutral Colors Only.

Route of exposure	Result/Effect	Species/Test System	Source
Oral	LD_{50}:>10000 mg/kg	Rat	Conclusion by analogy

Information On Likely Routes Of Exposure

Inhalation:
Assessment: No information available for this product. Maybe harmful if inhaled.

Ingestion:
Assessment: No information available for this product. May be harmful if ingested.

Skin Contact:
Assessment: May cause irritation of the skin.

Eye Contact:
Assessment: May cause irritation to eyes. Contact may cause tearing, redness and stinging or burning feeling, swelling and blurred vision.

Immediate Effects:
Assessment: Skin and eye irritation.

Delayed Effects:
Assessment: No information is available.

Medical Conditions Aggravated by Exposure:
Assessment: Skin and eye disorders

Respiratory Sensitization:
Assessment: For this endpoint no toxicological test data is available for the whole product.

Germ Cell Mutagenicity
Assessment: For this endpoint no toxicological test data is available for the whole product.

Carcinogenicity
Assessment: For this endpoint no toxicological test data is available for the whole product.

Reproductive Toxicity
Assessment: May damage fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure)
Assessment: For this endpoint no toxicological test data is available for the whole product.

Specific Target Organ Toxicity (Repeated Exposure)
Assessment: For this endpoint no toxicological test data is available for the whole product.

Aspiration Hazard
Assessment: Based on the physical – chemical properties of the product no aspiration hazard must be expected.

12. ECOLOGICAL INFORMATION

Toxicity
Assessment:
Assessment based on ecotoxicological tests with similar products under consideration of the physical-chemical properties: For this product is acutely harmful for aquatic organisms. Do not discharge into environment without control. Product has not been tested. Statements on ecotoxicology derived from properties of individual components.

Persistence And Degradability
Assessment: No data known.

Bioaccumulative Potential
Assessment: No data known.

Mobility In Soil:
Assessment: No data known.

Other Adverse Effects:
Assessment: No data known.

13. DISPOSAL CONSIDERATIONS

Product Disposal
Recommendation: Material that cannot be used, reprocessed or recycled should be disposed of in accordance with federal, state and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

Packaging Disposal

Recommendation: Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

14. TRANSPORT INFORMATION

US DOT & CANADA TDG SURFACE

Valuation.....: Not regulated for transport.

Transport by Sea IMDG-Code

Valuation.....: Not regulated for transport.

Air Transport ICAO-TI/IATA -DGR

Valuation.....: Not regulated for transport.

15. REGULATORY INFORMATION

U.S. Federal Regulations

None of this products components are listed under the following:

- TSCA Inventory Status and TSCA Information:
- TSCA 12(b) Export Notification:
- CERCLA Regulated Chemicals: (40 CFR302.4)
- SARA 302 EHS Chemicals: (40 CFR 355 Appendix A)
- SARA 311/312 Hazard Class: (40 CFR 370.21)
- SARA 313 Chemicals: (40 CFR 372.65)

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

COMPONENT	CAS #	CA	MA	MN	NJ	PA
Calcium Carbonate	1317-65-3	No	Yes	Yes	Yes	Yes
Titanium Dioxide	13463-67-7	No	Yes	Yes	Yes	Yes

- California Prop 65: This product contains chemicals known to the State of California to cause cancer and, birth defects or other reproductive harm.

Details Of International Registration Status	
South Korea (Republic of Korea)	ECL (Existing Chemicals list): This product is listed in, or complies with, the substance inventory.
Australia	AICS (Australian Inventory of Chemical Substances): This product is listed in, or complies with, the substance inventory.
Canada	DSL (Domestic Substance List): This product is listed in, or complies with, the substance inventory.
Philippines	PICCS (Philippine Inventory of Chemicals and Chemical Substances): This product is listed in, or complies with, the substances inventory.
United States of America (USA)	TSCA (Toxic Substances Control Act Chemical Substances Inventory): This product is listed in, or complies with, the substances inventory.
European Economic Area (EEA)	REACH (Regulation (EC) No 1907/2006): General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported in the EEA by customers or the downstream users must be fulfilled by the latter.

16. OTHER INFORMATION

Prepared by: Chemical Concepts, Inc.

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.