Date: 2/01/2022

Safety Data Sheet

SECTION 1 - MATERIAL IDENTIFICATION

Trade Name and Synonyms: **PliKote TD**

Product Number: 61503

Manufacturers Code I.D. : 61003

Chemical Name and Synonyms: Water Based Ceramic Coating

Chemicals: Calcined Clays, Titanium Dioxide

Recommended Use: Coating used to prevent molten aluminum adhesion

Supplier: Plibrico Company, LLC - 1935 Techny Road - Unit 16, Northbrook, IL 60062
Phone 312-337-9000, Fax 312-337-9003, www.plibrico.com

Contact Person: Safety Manager, safety@plibrico.com
EMERGENCY PHONE: 312-981-2869

SECTION 2- HAZARDOUS IDENTIFICATION

Emergency Overview: Dust from dried material may cause difficulty breathing

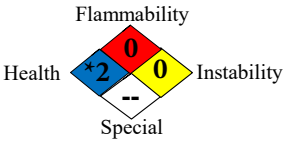
Signal Word: WARNING

Hazard Statement: H333: May be harmful if inhaled
H335: May cause respiratory irritation

HMIS Rating

Health	*	2
Flammability		0
Physical Hazard		0
Personal Protection		E

NFPA Rating scale 0-4



Precautionary Statements:

P260+P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

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

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P304+P340+P312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

P333+P313: If skin irritation occurs: Get medical advice/attention.

P391: Collect spillage

P501- Dispose of material in accordance with local regulation.

SECTION 3- HAZARDOUS INGREDIENTS

Ingredients (checked)	C.A.S. No.	Weight %	TLV ACGIH mg/m^3	OSHA PEL mg/m^3	EINECS
[X] Calcined Clay	1332-58-7	10 - 20	5 (resp.dust)	5 mg/m^3 TWA(resp.)	310-194-1
[X] Titanium Dioxide	13463-67-7	10 - 20	5 (resp.dust)	15 mg/m^3 TWA(total)	236-675-5
[X] Hydrophilic Polymer	Nonhazardous Trade Secret	5 - 15	N/A	N/A	N/A
[X] Water	7732-18-5	45 - 55	N/A	N/A	231-791-2
[X] Blue Pigment	57455-37-5	5 - 15	N/A	N/A	309-928-3

The ingredients contained in this product and the final product itself were manufactured without the use of ozone depleting chemicals.

SECTION 4- FIRST AID MEASURES

Inhalation: Excessive inhalation of dust may cause breathing difficulties. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Get immediate attention.

Eyes: Immediately flush with large amounts of water for 15 minutes. Call physician.

Skin: Wash with soap and water. Wash contaminated clothes before reuse. If symptoms persist, seek medical attention.

Ingestion: If swallowed, drink fruit juice to neutralize high pH. DO NOT induce vomiting. Call physician immediately.

SECTION 5- FIRE FIGHTING MEASURES

Unusual Fire and Explosive Hazards: None, product contains water

Fire Fighting Equipment: None

Extinguishing Media: N/A

SECTION 6- ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Contain any spills immediately and dike area to prevent spreading. Package and dispose of in appropriate landfill. Dried material is not considered hazardous.

Steps to be taken in case material is released or spilled: Wear protective clothing as described in Section 8 of this sheet. Dike to prevent entering sewer or waterways. Transfer liquid to holding container. Dispose of in accordance with all local, state, and federal regulations. Neutralizing chemicals are not required

Waste Disposal Method: According to the EPA (40CFR 261.3) wastes are not hazardous wastes. Wastes may be disposed of in a landfill, however, in accordance with federal, state, and local regulations.

SECTION 7 - HANDLING AND STORAGE

Handling: KEEP FROM FREEZING!

Minimize skin contact. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse. Properly dispose of contaminated leather articles, including shoes that can be decontaminated. Do not transfer to unmarked containers. Keep containers closed when not in use to reduce evaporation. Do not transfer to nonferrous containers such as aluminum or galvanized drums which may react to produce flammable gas. Never use pressure to empty container as this may rupture container.

Storage: Store under controlled temperatures: Range 35°F to 100°F.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation: Local and Mechanical: follow OSHA STD 29 CFR 1910.94.

Respiratory Protection: Good ventilation should be provided if dust is created when working with materials. If these are not sufficient to maintain concentrations of particulates below the OEL, suitable respiratory protection must be worn. Provide adequate general and local exhaust ventilation. Exposure must be controlled. Respirator use is not expected to be necessary under normal conditions of handling. When concentrations exceed the exposure limits specified, use of a NIOSH-approved dust respirator is recommended. Recommended: NIOSH approved respirator for dusts and mists, including silica, in compliance with OSHA STD 29.CFR1910.134.

Skin Protection Gloves: Protective gloves recommended. Chemical-resistant gloves due to the high alkalinity of the product. Use other clothing and/or equipment as required to minimize skin contact.

Eye Protection: Safety glasses, goggles, or face shield. Wear as appropriate: Safety glasses with side-shields.

Other Protective Equipment: As required to meet applicable OSHA standards.

Note: See Section 3 for occupational exposure limit values.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Appearance, Color & Odor: Blue liquid, mild smell

Specific Gravity (H_2O = 1): 1.30 - 1.32

Solubility in Water: Dispersible

pH: 10.5 - 11.5

Vapor Pressure: Approx. = Water

Boiling Point: 212°F

Freezing Point: 32°F

Vapor Density (air =1): Approx. = Water

Decomposition Temp.: N.I.

Combustibility: Does not support

% Volatiles by weight: < 10

Flash Point (Test Method): None, contains water

Evaporation Rate (BuAc = 1): < 1

SECTION 10- STABILITY AND REACTIVITY DATA

Stability: Stable under normal conditions.

Incompatibility: Strong acids and strong bases

Conditions to Avoid: Strong acids and strong bases. At temperatures above 400°C in the presence of air, Sulphur Dioxide (SO2) gas can be released.

Hazardous Decomposition Products: Hydrogen Sulphide may be released in contact with acids.

SECTION 11 - TOXICOLOGICAL INFORMATION

Effects of overexposure - Inhalation: Dust from dried product may increase present respiratory problems, i.e. bronchitis, asthma.

Effects of overexposure - Skin Contact: Abraded or cut skin may increase irritation.

Effects of overexposure - Eye Contact: Eye irritation may occur due to high pH level.

Effects of overexposure - Ingestion: Not established.

Carcinogenicity: Not established.

Acute Toxicity Values: Not established. The acute effects of this product have not been tested. Data on individual components below:

CAS-No.	Name according to EEC	Oral LD50	Dermal LD50	Vapor LC50
1332-58-7	Calcined Clays	>5000 mg/kg (rat)	>5000 mg/kg (rat)	N.I.
57455-37-5	Blue Pigment	>10000 mg/kg (rat)	None	None

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish LC50 (Fish): > 32,000 mg/l Exposure time: 96 h

Ecotoxicology Assessment:

Acute aquatic toxicity This product has no known ecotoxicological effects.

Chronic aquatic toxicity This product has no known ecotoxicological effects.

Persistence and degradability

Biodegradablilty Remarks: Not applicable

Bioaccumulative potential

Bioaccumulation Remarks: Not applicable

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Spillages or uncontrolled discharges into watercourses must be reported to Environmental Agency. Can be disposed of as a solid waste in accordance with federal, state, and local regulations. Vacuum or sweep up liquid product and place in a disposal container. Take care to prevent airborne dust and scattering of dried material.

Steps to be Taken in Case Material is Released or Spilled: Use personal protective equipment as necessary. Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container. Dispose in accordance with all local, state, and federal regulations.

SECTION 14 - TRANSPORT INFORMATION

Special Transport Precautions: None

DOT Shipping Name: Not regulated

Hazardous Ingredients(s): None

DOT Hazard Class: Not regulated

UN Number: None

SECTION 15 - REGULATORY INFORMATION

U.S. Federal Regulations:

COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

ALL COMPONENTS ARE INCLUDED IN THE EPA TOXIC SUBSTANCE CONTROL ACT (TSCA) CHEMICAL SUBSTANCE INVENTORY

WHMIS RATING (CANADA):

CLASS D-2B: Material causing other toxic effects.

CEPA DSL: Listed on inventory

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

SECTION 16 - OTHER INFORMATION

Only Trained personnel should use this material.

Volatile Organic Compounds, gr/ltr: 2

Abbreviations:
ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstracts Service
DOT: Department of Transportation
EPA: Environmental Protection Agency
NFPA: National Fire Protection Association
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
WHMIS: Workplace Hazardous Materials Information System (Canada)

DISCLAIMER
The information presented herein is presented in good faith and believed to be accurate as of the effective date of this Safety Data Sheet. Occupational exposure limits are under constant review and may be changed at any time. Employers may use this SDS to supplement other information gathered by them in their efforts to assure the health and safety of their employees and the proper use of this product. This summary of the relevant data reflects professional judgment. Employers should note that information perceived to be less relevant has not been included in this SDS. Therefore, given the summary nature of this document, Plibrico Company, LLC, does not extend any warranty (expressed or implied), assume any responsibility or make any representation regarding the completeness of this information or its suitability for the purposes envisioned by the user. No warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use. In addition, Plibrico Company, LLC, shall not be liable for injury arising by either misuse of materials, or failure to follow safety procedures as outlined in the safety data sheet.