

LANSDALE

VALVE & MANUFACTURING

www.breccocorp.com

Safety Data Sheet

SDS ID: Stock Code POW

Revision date: May 11, 2015

Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Power Seal Plus - Thread Sealing Compound with PTFE

Synonyms: None

Chemical family: Alkaline Earth Carbonate and PTFE mixture

Producer: J.C. Whitlam Manufacturing Company

200 West Walnut Street

P.O. Box 380

Wadsworth, Ohio 44282-0380

www.icwhitlam.com

Telephone: 330-334-2524 Available during normal business hours

Emergency: CHEMTEL 800-255-3924 Available 24 hours

Section 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910.1200

Skin Corrosion/Irritation, *Category 3*

Eye Damage/Irritation, *Category 2B*

Hazardous to the aquatic environment, acute hazard, *Category 3*

Signal Word and Hazard statements

Warning — Causes mild skin irritation H316

Causes eye irritation H320

Harmful to aquatic life H402



Precautionary Statements

P332 + P313 If skin or eye irritation occurs: Get medical advice/attention

P305+P338 If in eyes, check for and remove any contact lenses if present and easy to do so.

P351 Rinse eyes cautiously with tepid water for several minutes.

P337 If eye irritation persists, continue rinsing.

P273 Avoid release to the environment – if this is not the intended use.

P501 Dispose of contents in accordance with Federal, State, Provincial, and local regulations

Inhalation: Not applicable

Ingestion: Unlikely to be toxic by ingestion. Provide first aid (see Section 4)

Skin contact: P264 Wash hands thoroughly after handling. May cause mechanical irritation from prolonged or repeated contact.

Eye contact: May cause mechanical eye irritation.

Carcinogenic: Titanium dioxide is listed by the IARC as group 2B, see Section 11.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

Material information:

Name	CAS No.	Weight %
Limestone	1317-65-3	17-23
Dolomitic limestone (Magnesite)	471-34-1 and 546-93-0	17-23
Talc	14807-96-6	8-13
Wollastonite	13983-17-0	8-13
Titanium dioxide	13463-67-7	<5
Zinc oxide	1314-13-2	<5
PTFE (Teflon®)	9002-84-0	<5
Non-hazardous ingredients	Not Applicable	13-47

***Note:** The above weight percentages are represented in ranges as estimates. Due to variation among production batches, component percentages may vary.

Section 4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of the dangerous area.

Inhalation: Move exposed persons to fresh air. If the person is not breathing or breathing is irregular, provide artificial respiration or oxygen by trained personnel. Consult a physician.

Skin contact: Remove contaminated clothing and shoes. Wash affected skin with soap and water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.

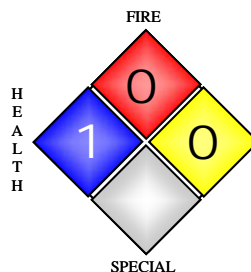
Ingestion: Unlikely to be toxic by ingestion. Do not induce vomiting. Never give anything by mouth to an unconscious person. If conscious and alert, rinse the mouth with water. Call a physician or poison control center immediately.

Eye contact: P305+P338 If in eyes, check for and remove any contact lenses if present and easy to do so. P351 Rinse eyes cautiously with tepid water for several minutes. P337+313 If eye irritation persists, continue rinsing and get medical advice/attention.

Section 5. FIREFIGHTING MEASURES

Suitable extinguishing media:	Use water spray, foam, carbon dioxide, or dry chemical. Water or foam may cause frothing of materials heated above 212°F.
Specific hazards:	None
Advice for Firefighters:	Full protective equipment including self-contained breathing apparatus should be used. Do not allow run-off from fire-fighting to enter drains or water courses.

	NFPA rating:	HMIS rating:
Health:	1	1
Flammability:	0	0
Instability/reactivity:	0	0
Other:	N/A	B (PPE)



Hazardous
FP - above 200 F
Stable
N/A

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Immediately contact emergency personnel. Evacuate any potentially affected area and isolate personnel from entry. Keep ignition sources away from the spill/release.
Large Spill:	Personnel must have appropriate training, per Occupational Safety and Health Administration (OSHA) 29 CFR 1910.120. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop the spill if it can be done safely.
Methods for Containment and Clean up	Shut off source if possible and if safe. Prevent entry into waterways and sewers. Wipe up or absorb on suitable material. Use a shovel to put the material into a convenient waste disposal container. Keep absorbed material in closed containers for disposal. Advise applicable authorities if material has entered sewers or water courses.

Section 7. HANDLING AND STORAGE

Handling:	Keep away from ignition sources. Keep containers closed when not in use. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Launder soiled clothing thoroughly before re-use.
Storage:	Keep all containers tightly closed when not in use. Do not store with incompatible materials. See Section 10, Stability and Reactivity.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Name	CAS No.	ACGIH® TLV® or NIOSH REL Exposure Limits:	Federal OSHA PELs	OSHA PELs 1989 ^C
Limestone	1317-65-3	10 ^A , 3 ^{A,D}	15 ^A , 5 ^{A,D}	-
Dolomitic limestone (Magnesite)	471-34-1 546-93-0	10 ^A , 3 ^{A,D}	15 ^A , 5 ^{A,D}	-
Talc	14807-96-6	2 ^D	Not Estab.	2 ^D
Wollastonite	13983-17-0	Not Estab.	Not Estab.	Not Estab.
Titanium dioxide	13463-67-7	10 ^A , 3 ^{A,D}	15 ^A , 5 ^{A,D}	10 ^A
Zinc oxide	1314-13-2	2 ^D , 10 ^{B, D}	15 ^A , 5 ^{A,D}	10 ^A , 5 ^{A,D}
PTFE (Teflon®)	9002-84-0	Not Estab.	Not Estab.	Not Estab.

All exposure limits listed are 8-hour time weighted average (TWA) — except where noted otherwise.

^A Time Weighted Average (TWA) is an average exposure over the course of an 8-hour work shift. As measured in milligrams particulate per cubic meter of air.

^B A Short Term Exposure Limit TWA over the course of 15 minutes.

PEL — Permissible Exposure Limit is the maximum 8-hour TWA concentration of a chemical that a worker may be exposed to under Occupational Safety and Health Administration (OSHA) regulations.

^C Federal OSHA 1989 PELs were vacated but are in use and enforced by many state OSHA plans.

^D Respirable-size particulate.

Engineering measures: Local exhaust ventilation is preferable. General ventilation is acceptable if exposure to materials in this section is maintained below applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: When engineering controls are not sufficient to reduce exposure to levels below applicable exposure limits, seek professional advice prior to respirator selection and use. Wear a properly fitted NIOSH/ MSHA-approved respirator.

Skin and body protection: Wear impervious clothing and rubber gloves to prevent contact. Use the manufacturer's degradation and permeation data for protective material selection.

Eye protection: Wear safety spectacles with unperforated sideshields.

Hygiene measures: Avoid repeated or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove contaminated clothing and laundry before reuse.

Other precautions: Not applicable

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Arctic blue paste
Physical state (solid/liquid/gas):	Paste
Substance type (pure/mixture):	Mixture
Color:	Blue
Odor:	Petroleum
Molecular weight:	Not available
pH:	Not Applicable
Boiling point/range (5-95%):	Not Available
Melting point/range:	Not Available
Decomposition temperature:	Not Available
Specific gravity:	1.69
Vapor density:	(AIR = 1) >1
Vapor pressure:	<1 mm Hg
Evaporation rate (Butyl acetate= 1):	<0.1
Flash point, method used:	350°F; 177°C
Water solubility:	Slight
VOC Content:	0 grams/liter
Auto-ignition temperature:	Not Available
Flammable limits in air — lower (%):	Not Available
Flammable limits in air — upper (%):	Not Available

Section 10. STABILITY AND REACTIVITY

Reactivity:	No data available
Stability:	Stable under recommended storage conditions.
Possibly hazardous reactions:	No data available
Conditions to avoid:	Extended exposures to high temperatures can cause decomposition.
Incompatible Materials:	Strong oxidizers, acids.
Hazardous decomposition products:	Carbon dioxide, carbon monoxide
Polymerization:	Will not occur.

Section 11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Product information:

Name	CAS No.	Inhalation:	Dermal:	Oral:
Limestone	1317-65-3	No data available.	No data available.	Acute LD ₅₀ (Rat):6,450 mg/kg
Zinc oxide	1314-13-2	Acute LC ₅₀ (Mouse): 2,500 mg/m ³	No data available.	No data available.
PTFE (Teflon®)	9002-84-0	LC ₅₀ 4 hours (Rat): >6,820 mg/m ³	No data available.	Acute LD ₅₀ (Rat): >5,000 mg/kg

LC₅₀ — the concentration of the chemical in air that kills 50% of the test animals in a given time (usually four hours).

Carcinogenicity: The IARC lists titanium dioxide as group 2B; and lists PTFE (Teflon®) as group 3. No ingredient of this product present at levels greater than 0.1% is listed as a carcinogen by the NTP and OSHA.

Reproductive toxicity: No data available.

Sensitization: No data available.

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity effects: Limestone
LC₅₀ fish (not specified) 72-hour >200 mg/l.

Titanium Dioxide

EC₅₀ Daphnia magna (Water flea) 48-hour >1,000 mg/l
EC₅₀ Pseudokirchneriella subcapitata (green algae) 72-hour 61 mg/l
LC₅₀ Pimephales promelas (fathead minnow) 96-hour >1,000 mg/l

Titanium Dioxide

EC₅₀ Daphnia magna (Water flea) 48-hour 0.098 mg/l
LC₅₀ Oncorhynchus mykiss (rainbow trout) 96-hour 1.1 mg/l

Persistence: No data available.

Degradability: No data available.

Section 13. DISPOSAL CONSIDERATIONS

Cleanup considerations: Dispose this material in accordance with Federal, State, Provincial, and/or local regulations.
The material destined for disposal must be characterized properly and may differ from the product described in this SDS if mixed with other wastes.

Section 14. TRANSPORT INFORMATION

Please refer to DOT regulation 49 CFR 172.101:

Transport information: This material is not regulated under DOT when transported via U.S. commerce routes; and IATA, and IMO via international routes

Hazardous Materials Description: (DOT and IATA):

UN/identification no.: Not Applicable
Proper shipping name: Not Applicable
Hazard class: Not Applicable
Packing group: Not Applicable
DOT reportable quantity (lbs.): Not Applicable

Section 15. REGULATORY INFORMATION

U.S. federal regulatory information:

U.S. RCRA (40 CFR 261)

This product is not a hazardous waste as defined under RCRA 40 CFR 261.

State and community right-to-know regulations:

The following component(s) of this material are identified on the regulatory lists below:

U.S. TSCA Chemical inventory Section 8(b)

OSHA — This product is determined to be hazardous as defined in the OSHA Hazard Communications Standard (29 CFR 1910.1200)

CERCLA Sections 102a/103 (40 FR 302.4):

No ingredients are listed.

Components of this product are listed not in the following sections of **SARA**:

SARA Title III Section 302 — N/A

SARA Title III Section 304 — N/A

SARA Title III Section 313 — This product does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21)

Acute health hazard: No
Chronic health hazard: No
Fire hazard: No
Reactive Hazard: No
Pressure Hazard: No

California Proposition 65 Components

This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm (quartz $\leq 0.01\%$). The listing of titanium dioxide is for “airborne, unbound particles of respirable size”. This listing is not applicable to titanium dioxide when it remains bound with a product matrix.

WHMIS (Canada)

Titanium dioxide: Class D-2A: Material causing other toxic effects.

CAS# 1317-65-3 is listed on Canada’s Non-Domestic Substance List

NOTE: User must consult with applicable state and local agencies for special specifics, determinations or compliance obligations regarding this product.

Section 16. OTHER INFORMATION

Standards and Certification Listings:

The information and recommendations contained herein are based upon tests, data, and information resources believed to be reliable. However, the J.C. Whitlam Manufacturing Company, Inc., and its related operations or divisions (Whitlam) do not guarantee the accuracy or completeness, nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of goods, the merchantability of the goods or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage may be required. Whitlam assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of this data. No warranty against infringement of any patent, copyright or trademark is made or implied.