

MATERIAL SAFETY DATA SHEET

1. COMPANY INFORMATION / CHEMICAL PRODUCT

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Product Name: **PROFIX CATALYST (PART B)**
Product Part #: **PF2BWH, PF4BWH, PF14BWH**

2. HAZARDOUS INGREDIENTS

*n/a-not available

* n/e-not established

EXPOSURE LIMITS, PPM

COMPONENT	CAS #	EXPOSURE LIMITS, PPM		% MIX
		OSHA PEL(TWA)	ACGIH TLV(TWA)	
Dicalcium Phosphate	7789-77-7	n/a	n/a	62.5%
Dibenzoyl Peroxide	94-36-0	5 mg/m3	5 mg/m3	35.0%
Silane, dichlorodimethyl, reaction products with silica	68611-44-9	n/a	n/a	<2.5%

3. HAZARDS IDENTIFICATION

WARNING!

ORGANIC PEROXIDE

ROUTES OF EXPOSURE

EFFECTS OF EXPOSURE

EYES:

CAUSES EYE IRRITATION.

SKIN:

May cause allergic skin reaction.

INHALATION:

May cause respiratory tract irritation.

INGESTION:

Slightly toxic by ingestion. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

4. FIRST AID MEASURES

EYE CONTACT:

Immediately flush eyes with lots of running water for 15 minutes, lifting upper and lower eyelids. Seek medical attention if irritation persists.

SKIN CONTACT:

Wash exposed skin with soap and water. Seek medical attention if irritation persists.

INHALATION:

Remove to fresh air. Seek immediate medical attention if in distress. Administer artificial respiration if breathing has stopped until help arrives.

INGESTION:

IF SWALLOWED, induce vomiting as directed by medical personnel. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

5. FIRE FIGHTING MEASURES

AUTO-IGNITION TEMPERATURE:

n/e

FLASHPOINT:

n/a

LEL/UEL:

n/e / n/e

EXTINGUISHING MEDIA:

Use water spray, foam or dry chemical.

SPECIAL FIRE PRECAUTIONS:

Water spray may be ineffective but may be used to cool containers exposed to heat. Wear self-contained breathing apparatus.

5. FIRE FIGHTING MEASURES Cont.

FIRE AND EXPLOSION HAZARDS: Contact with incompatible materials or exposure to temperatures exceeding the SADT may result in a self accelerating decomposition reaction with the release of flammable vapors which may autoignite.

NFPA RATINGS FOR THIS PRODUCT ARE: HEALTH 1, FLAMMABILITY 0, REACTIVITY 0

HMIS RATINGS FOR THIS PRODUCT ARE: HEALTH 1, FLAMMABILITY 0, REACTIVITY 0

6. ACCIDENTAL RELEASE MEASURES

MEASURES TO TAKE IN CASE OF LEAKAGE OR SPILLS: Mix with damp, inert non-combustible absorbent material. Sweep or scoop into DOT - approved waste containers. Dispose of immediately in accordance with appropriate Federal, State or local requirements.

7. HANDLING AND STORAGE

HANDLING: Contact with incompatible materials or exposure to temperatures exceeding SADT (See Section 9) may result in a self accelerating decomposition reaction with release of flammable vapors which may autoignite. Keep away from sparks and flame. Avoid contamination. Use only with adequate ventilation. Use explosion proof equipment. Keep container closed. Do not reuse empty container. Avoid contact with eyes and skin. Avoid breathing dust. Wash thoroughly after handling.

STORAGE: Store below 100°F/38°C to maintain stability and active oxygen content. Store out of direct sunlight in a cool, well ventilated place. Store away from combustibles and incompatible materials. Keep away from children and animals. Refer also to National Fire Protection Agency (NFPA) Code 432, Code for the Storage of Organic Peroxide Formulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use normal ventilation, should be explosion proof.
PERSONAL PROTECTION: Wear a NIOSH/OSHA approved respirator for vapors and particles.
Wear safety glasses with side shields and chemical resistance gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR:	Slight	VAPOR DENSITY (Air = 1)	n/a
COLOR(S):	White	BOILING RANGE:	n/a
PHYSICAL STATE (@20 C):	Powder	SOLUBILITY IN WATER:	Insoluble
SPECIFIC GRAVITY:	41.2 lbs/ft ³ bulk densit	FREEZING/MELTING POINT:	n/a
EVAPORATION RATE :	n/a	pH:	n/a
*SADT:	n/e (>50°C)	OTHER DATA:	Active Oxygen=2.31-2.44%

SADT - Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction. This reaction will generate flammable vapors which may autoignite. The length of time to generate a decomposition reaction, after the SADT has been reached or exceeded, is dependent upon how much the SADT has been exceeded and the length of time needed for the reaction exotherm (heat spike from increasing decomposition rate) to initiate a rapid decomposition reaction. Typically, SADT is inversely proportional to package size. Larger packages will have a lower SADT due to smaller ratio to heat transfer area to volume of product.

10. STABILITY AND REACTIVITY

STABILITY: This product is chemically unstable and should only be handled under specified conditions. See HANDLING AND STORAGE section for specified conditions.

HAZARDOUS POLYMERIZATION: Does not occur.

MATERIALS TO AVOID: Contact with materials such as, strong acids,bases,oxidizers,reducing agents,amines and promoters/accelerators may result in violent decomposition or product degradation.

HAZARDOUS DECOMPOSITION: Temperatures at or above the SADT can result in the release of hazardous decomposition products which are flammable and may auto ignite.

11. TOXICOLOGICAL INFORMATION

DICALCIUM PHOSPHATE: Single exposure (acute) studies indicate that this material is no more than slightly toxic if swallowed (rat LD50 >4650 mg/kg), practically non-toxic if absorbed through the skin (rabbit LD50 >7940 mg/kg), slightly irritating to rabbit eyes (4hr exposure 3.3/110) and non-irritating to rabbit skin.

DIBENZOYL PEROXIDE: Single exposure (acute) studies indicate that this material is slightly toxic to practically non-toxic if swallowed (rat LD50 >950 to >5000 mg/kg), practically non-toxic if inhaled (rat 4hr LC50 >22.4 mg/l, nominal concentration; the highest atmospheric concentration achievable in the study), severely irritating to rabbit eyes and non-irritating to rabbit skin (4hr exposure).

Skin allergy was observed in humans and guinea pigs following repeated skin exposure. Long-term dietary administration to rats showed an increased incidence of testicular atrophy. Long-term skin or dietary administration studies in rats and mice produced no evidence of carcinogenicity. IARC has evaluated this material and determined that it is "unclassifiable as to its carcinogenicity to humans" (Group 3). No genetic changes were observed in standard tests using animals or bacteria. Both positive and negative responses occurred in tests with animal cells.

SILANE, DICHLORODIMETHYL-, REACTION PRODUCTS WITH SILICA: Single exposure (acute) studies indicate that this material is practically non-toxic if swallowed (rat LD50 5000mg/kg), no more than slightly toxic if inhaled (rat 4hr LC50 0.477mg/l; maximum attainable concentration), and non-irritating to rabbit eyes and skin.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Dibenzoyl Peroxide - This material is highly toxic to Daphnia magna (48hr EC50 0.07 mg/l) and algae (72hr EC50 0.83 mg/l). It is moderately toxic to guppies (96hr LC50 2.0 mg/l) and slightly toxic to activated sludge (30min. EC50 35 mg/l).

CHEMICAL FATE INFORMATION: Dibenzoyl Peroxide - This material is biodegradable under aerobic conditions (60% after 28 days) and has a low potential to bioaccumulate (log Pow 1.87). It is degraded in air by OH radicals (half-life 54 hrs).

13. DISPOSAL CONSIDERATIONS

Waste disposal information: Dispose in accordance with all applicable Federal, State and local environmental regulations.

14. TRANSPORT INFORMATION

Canadian TGD Classification: NOT REGULATED
U.S. (DOT) Regulations: NOT REGULATED

15. REGULATORY INFORMATION

U.S. TSCA Inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL) or exempt.

SARA TITLE 312: Acute: YES Chronic: NO Fire: YES Pressure: NO React.: YES

SARA TITLE 313: Dibenzoyl Peroxide

SARA REPORTABLE QUANTITIES:	<u>CERCLA RQ</u>	<u>SARA TPG</u>
Dicalcium phosphate	n/e	
Dibenzoyl peroxide	n/e	
Silane, dichlorodimethyl-, reaction products with silica	n/e	



16. OTHER INFORMATION

Prepared by: Pro Technology International Ltd. on March 31, 2006.

NOTICE:

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, PROTECHNOLOGY MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREFORE, PROTECHNOLOGY ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

BE SAFE:

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