

MATERIAL SAFETY DATA SHEET**SECTION 1: IDENTIFICATION****Product identifier** : **PORC-A-FILLER****Product Use** : Porcelain chip filler.**Chemical Family** : Mixture of: Resin; Ketones; Aromatic Hydrocarbon ; Alcohols; Filler.**Manufacturer part no.** : PORC-A-FILLER**Supplier's name and address:****G.F. Thompson Company Ltd.**620 Steven Court
Newmarket, ON, Canada
L3Y 6Z2**Manufacturer's name and address:**

Refer to Supplier

Information Telephone # : Monday to Friday, 7:30 am to 5:00 pm, Eastern Standard Time:
(905) 898-2557
(800) 499-3673 (toll free)**24 Hr. Emergency Tel #** : (905) 252-4793**SECTION 2 - HAZARDS IDENTIFICATION****Classification** : WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). WHMIS classification:
Class B2 (Flammable Liquids);
Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material);
Class D2B (Materials Causing Other Toxic Effects, Toxic Material).

Labelling: Phrases recommended to appear on a supplier label, can be found in Section 15.

WHMIS symbols required on a supplier label:

**Emergency Overview** : White liquid. Solvent odour.
Danger. Flammable liquid and vapour. May be ignited by open flames and sparks. May be harmful if inhaled or swallowed. May cause respiratory irritation. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. Could result in pulmonary edema (fluid accumulation). Causes severe eye irritation. May cause skin irritation. Possible birth defect hazard - contains material that may cause birth defects, based on animal data.**POTENTIAL HEALTH EFFECTS:****Signs and symptoms of short-term (acute) exposure****Inhalation** : May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.**Skin** : May cause moderate skin irritation. May be absorbed through the skin.**Eyes** : Causes severe eye irritation. May cause corneal injury.**Ingestion** : May cause irritation of mouth, throat, and stomach. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.**Effects of long-term (chronic) exposure**: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.
Prolonged overexposure may cause liver and kidney effects.
If dusts are formed, inhalation may cause adverse lung effects. Pneumoconiosis, or "dusty lung" disease, may result from chronic exposure to any dust.**Carcinogenic status** : See TOXICOLOGICAL INFORMATION, Section 11.**Additional health hazards** : May cause birth defects. See TOXICOLOGICAL INFORMATION, Section 11.**Potential environmental effects**

: See ECOLOGICAL INFORMATION, Section 12.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	CAS #	Wt. %
Acetone	67-64-1	10.00 - 30.00
Barium sulfate	7727-43-7	10.00 - 30.00
Xylene	1330-20-7	5.00 - 10.00
Aluminum oxide	1344-28-1	3.00 - 7.00
Toluene	108-88-3	1.00 - 5.00
n-Butyl alcohol	71-36-3	1.00 - 5.00
Isopropyl alcohol	67-63-0	1.00 - 5.00
Talc	14807-96-6	0.10 - 1.00

SECTION 4 - FIRST AID MEASURES

- Inhalation** : Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention.
- Skin contact** : For skin contact, wash with soap and water while removing contaminated clothing. If irritation persists, seek prompt medical attention. Wash contaminated clothing before reuse.
- Eye contact** : For eye contact, flush with running water for at least 15 minutes. Seek immediate medical attention/advice.
- Ingestion** : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
- Notes For Physician** : Treat symptomatically. This product is a CNS depressant.

SECTION 5 - FIRE FIGHTING MEASURES**Fire hazards/conditions of flammability**

- : Flammable liquid and vapour. This material may be ignited by heat, sparks and direct flame. Vapours may be heavier than air and may collect in confined and low-lying areas. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Oxidizing properties : None known.

Explosion data: Sensitivity to mechanical impact / static discharge

- : May be sensitive to static discharge. Not expected to be sensitive to mechanical impact.

Suitable extinguishing media : Dry chemical, foam, carbon dioxide and water fog. Do not use water jet, as this may spread burning material.

Special fire-fighting procedures/equipment

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

Hazardous combustion products

- : Carbon oxides; Aldehydes; Hydrocarbons; sulfur oxides; unburned alcohols; Other unidentified organic compounds.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Refer to protective measures listed in sections 7 and 8. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

Spill response/clean-up : Ventilate area of release. Remove all sources of ignition. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.

Prohibited materials : Do not use combustible absorbents, such as sawdust.

SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Use proper bonding and grounding techniques when transferring liquid. Avoid contact with incompatible materials. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area. Keep out of the reach of children.
- Incompatible materials** : Strong oxidizing agents; Acids; Reducing agents; Halogenated compounds.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**Exposure Limits**

<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Acetone	500 ppm	750 ppm	1000 ppm	N/Av
Barium sulfate	10 mg/m ³	N/Av	15 mg/m ³ (total dust); 5 mg/m ³ (respirable)	N/Av
Xylene	100 ppm	150 ppm	100 ppm	N/Av
Aluminum oxide	1 mg/m ³ (respirable)	N/Av	15 mg/m ³ (total dust); 5 mg/m ³ (respirable)	N/Av
Toluene	20 ppm	N/Av	200 ppm	300 ppm (Ceiling)
n-Butyl alcohol	20 ppm	N/Av	100 ppm	N/Av
Isopropyl alcohol	200 ppm	400 ppm	400 ppm	N/Av
Talc	2 mg/m ³ (respirable)	N/Av	20 mppcf	N/Av

Ventilation and engineering measures

- : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection

- : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Confirmation of which type of respirator is most suitable for the intended application should be obtained from respiratory protection suppliers.

Skin protection

- : Gloves impervious to the material are recommended. Advice should be sought from glove suppliers. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact.

Eye / face protection

- : Safety goggles or glasses as appropriate for the job.

Other protective equipment

- : Other equipment may be required depending on workplace standards. An eyewash station and safety shower should be made available in the immediate working area.

General hygiene considerations

- : Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid.	Appearance	: white
Odour	: Solvent odour.	Odour threshold	: N/Av
pH	: N/Av		
Boiling point	: N/Av	Specific gravity	: N/Av
Melting/Freezing point	: N/Av	Coefficient of water/oil distribution	: N/Av

Vapour pressure (mmHg @ 20° C / 68° F)	: N/Av	Solubility in water	: Insoluble.
Vapour density (Air = 1)	: N/Av	Evaporation rate (n-Butyl acetate = 1)	: N/Av
Volatile organic Compounds (VOC's)	: N/Av	Volatiles (% by weight)	: 30% (by volume)
Flash point	: - 12°C (10.4°F)	Auto-ignition temperature	: N/Av
Flash point Method	: Seta closed cup	Upper flammable limit (% by vol.)	: N/Av
Lower flammable limit (% by vol.)	: N/Av	Flashback observed	: N/Ap
Flame Projection Length	: N/Ap	Viscosity	: > 500 mm ² /sec (approximately)
Absolute pressure of container	: N/Ap		
General Information	: No additional information.		

Section 10: STABILITY AND REACTIVITY

Stability and reactivity	: Stable under the recommended storage and handling conditions prescribed. Refer to Section 7, HANDLING AND STORAGE, for additional information.
Hazardous polymerization	: Will not occur.
Conditions to avoid	: Avoid heat and open flame. Ensure adequate ventilation, especially in confined areas. Keep out of direct sunlight. Avoid contact with incompatible materials.
Materials To Avoid And Incompatibility	: Strong oxidizing agents; Acids; Reducing agents; Halogenated compounds.
Hazardous decomposition products	: None known, refer to hazardous combustion products in Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

Target organs	: Eyes, skin, respiratory system, digestive system, central nervous system.
Routes of exposure	: <i>Inhalation</i> : YES <i>Skin Absorption</i> : YES <i>Skin & Eyes</i> : YES <i>Ingestion</i> : YES
Irritancy	: Severe eye irritant. Moderate skin irritant.
Toxicological data	: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Ingredients</u>	LC₅₀(4hr)	LD₅₀	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Acetone	30,000 ppm	5800 mg/kg	> 15,800 mg/kg
Barium sulfate	N/Av	N/Av	N/Av
Xylene	6350 ppm	3523 mg/kg	12,180 mg/kg
Aluminum oxide	N/Av	> 5000 mg/kg	N/Av
Toluene	7585 ppm	5580 mg/kg	12,125 mg/kg
n-Butyl alcohol	> 8000 ppm	2510 mg/kg	4200 mg/kg
Isopropyl alcohol	17,000 ppm	4720 mg/kg	12,890 mg/kg
Talc	N/Av	N/Av	N/Av

Carcinogenic status	: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
Reproductive effects	: Not expected to cause reproductive effects.
Teratogenicity	: This product contains Xylene. Xylene may cause fetotoxic effects at doses which are not maternally toxic, based on animal data. Contains Toluene. Toluene may cause fetotoxic effects at doses which are not maternally toxic, based on animal data. This product contains Isopropanol. Isopropanol is no longer considered a developmental toxin. Teratogenic / fetotoxic effects were observed in animals, however the effects were observed in the presence of maternal toxicity or at concentrations where maternal toxicity is expected to occur.
Mutagenicity	: Not expected to be mutagenic in humans.
Epidemiology	: None known or reported by the manufacturer.
Sensitization to material	: Not expected to be a skin or respiratory sensitizer.

- Synergistic materials** : None known or reported by the manufacturer.
- other important hazards** : See Section 2 for additional information.
- Conditions aggravated by overexposure**
- : Pre-existing skin, eye, respiratory and central nervous system disorders.

SECTION 12 - ECOLOGICAL INFORMATION

- Ecotoxicity** : The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. Contains: Xylene; Toluene.
- The acute toxicity of xylene is (ECOTOX):
- Toxicity to fish - LC50/96h/rainbow trout = 8.2 mg/L
 - Toxicity to daphnia - EC50/48h/daphnia = 3.2 - 9.56 mg/L
 - Toxicity to algae - EC50/72h/algae = 3.2 - 4.9 mg/L
- The acute toxicity of toluene is (OECD):
- Toxicity to fish - LC50/96h/pink salmon = 5.4 mg/L
 - Toxicity to daphnia - LC50/48h/daphnia = 11.5 mg/L
- Other ingredients present in this product are not classified as environmentally toxic.
- Mobility** : No data is available on the product itself.
- Persistence** : No data is available on the product itself. Contains: Xylene; Toluene.
- Xylene is considered to be inherently biodegradable.
 - Toluene is considered to be readily biodegradable.
- Bioaccumulation potential** : No data is available on the product itself. Contains: Xylene; Toluene.
- The log Pow for Xylene is 3.12.
 - The log Kow value for Toluene is 2.65, and its Bioconcentration Factor (BCF) is 90 (OECD).
- Other Adverse Environmental effects**
- : No data is available on the product itself.

SECTION 13 - DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.
- Methods of Disposal** : Dispose of in accordance with federal, provincial and local hazardous waste laws.

SECTION 14: TRANSPORT INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	UN1263	PAINT	3	II	
TDG Additional information	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. Under the TDGR, refer to Section 1.17 for additional exemption information, if shipping under this exemption.				

SECTION 15 - REGULATORY INFORMATION

Labelling:

Danger. Flammable liquid and vapour This material may be ignited by heat, sparks and direct flame. May be harmful if inhaled or swallowed. May cause respiratory irritation. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. Could result in pulmonary edema (fluid accumulation). Causes severe eye irritation. May cause skin irritation. Possible birth defect hazard - contains material that may cause birth defects, based on animal data.

PRECAUTIONS: Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Use proper bonding and grounding techniques when transferring liquid. Avoid contact with incompatible materials. Wash thoroughly after handling. Store in a cool, dry, well ventilated area, away from heat and ignition sources.

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FIRST AID: If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stopped, begin artificial respiration. Get medical attention. For skin contact, wash with soap and water while removing contaminated clothing. If irritation persists, seek prompt medical attention. For eye contact, flush with running water for at least 15 minutes. Seek immediate medical attention/advice. If ingested, do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

Refer To Material Safety Data Sheet for further information.

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

SECTION 16 - OTHER INFORMATION

Legend : ACGIH: American Conference of Governmental Industrial Hygienists
 CAS: Chemical Abstract Services
 ECOTOX: U.S. EPA Ecotoxicology Database
 HSDB: Hazardous Substances Data Bank
 IARC: International Agency for Research on Cancer
 Inh: Inhalation
 LC: Lethal Concentration
 LD: Lethal Dose
 N/Ap: Not Applicable
 N/Av: Not Available
 NIOSH: National Institute of Occupational Safety and Health
 OECD: Organisation for Economic Co-operation and Development
 OSHA: Occupational Safety and Health Administration
 PEL: Permissible exposure limit
 RTECS: Registry of Toxic Effects of Chemical Substances
 STEL: Short Term Exposure Limit
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations
 TLV: Threshold Limit Values
 TWA: Time Weighted Average
 WHMIS: Workplace Hazardous Materials Identification System

References : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2012.
 2. International Agency for Research on Cancer Monographs, searched 2012.
 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2012 (Chempendium, HSDB and RTECs).
 4. Material Safety Data Sheets from manufacturer.

Prepared for:

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