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 SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION  
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CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT CODE . . . : 07844 101772 604  
 PRODUCT NAME . . . : Plutonium G  
 PRODUCT CLASS . . . : Aerosol Touch-Up

MSDS PREPARATION DATE : 05/08/2007

MANUFACTURER IDENTIFICATION:

RAABE COMPANY  
 PO BOX 1090  
 MENOMONEE FALLS WI 53052-1090

CUSTOMER IDENTIFICATION:

Designs Polymorphous  
 32350 Edward Ave  
 #A  
 Madison Heights MI 48071

EMERGENCY TELEPHONE NUMBERS:

24 HOURS A DAY - CALL CHEMTREC : 800-424-9300  
 INTERNATIONAL CALLS TO CHEMTREC : 703-527-3887  
 8 AM TO 4:30 PM CENTRAL TIME : 262-255-9500

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 SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS  
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1 ETHYLBENZENE

CAS# 100-41-4

ETHYLBENZENE

PCT BY WT: .2680 VAPOR PRESSURE: 19.000 MMHG @ 68F LEL 1.20

EXPOSURE LIMIT:

ACGIH TLV-TWA 100 ppm  
 ACGIH TLV-STEL 125 ppm  
 OSHA PEL-TWA 100 ppm  
 OSHA PEL-STEL 125 ppm  
 OTHER IARC (2B), CALIFORNIA PROP 65 (Cancer 6/11/2004)  
 LD50(ORAL) 3500 mg/kg (rat)  
 LD50(DERMAL) 20574 mg/kg (rabbit)  
 LC50 17623 mg/m3 (rat)

OTHER LIMITS:

PROP 65-Cancer, listed 6/11/04

2 N-BUTANE

CAS# 106-97-8

N-BUTANE

PCT BY WT: 6.0000 VAPOR PRESSURE: 879.100 MMHG @ 68F LEL 1.80

EXPOSURE LIMIT:

ACGIH TLV-TWA 800 ppm  
 ACGIH TLV-STEL NO INFO  
 OSHA PEL-TWA 800 ppm  
 COMPANY N.E.  
 LD50(ORAL) N.A.  
 LD50(DERMAL) N.A.  
 LC50 658000 mg/m3 (rat)

3 PROPANE

CAS# 74-98-6

PROPANE

PCT BY WT: 18.0000 VAPOR PRESSURE: 5585.200 MMHG @ 68F LEL 2.20

EXPOSURE LIMIT:

ACGIH TLV-TWA 1000 ppm  
 ACGIH TLV-STEL NO INFORMATION  
 LD50(ORAL) NOT APPLICABLE  
 LD50(DERMAL) NOT APPLICABLE  
 LC50 NO INFORMATION

4 XYLENE

CAS# 1330-20-7

## RZ101772 (10120 Hot Sauce).TXT

## XYLENE

PCT BY WT: 1.0000 VAPOR PRESSURE: 6.600 MMHG @ 68F LEL 1.00  
 EXPOSURE LIMIT:  
 ACGIH TLV-TWA 100 ppm  
 ACGIH TLV-STEL 150 ppm  
 OSHA PEL-TWA 100 ppm  
 OSHA PEL-STEL 150 ppm  
 COMPANY N. E.  
 LD50(ORAL) 4300 mg/kg (rat)  
 LD50(DERMAL) 1700 mg/kg (rabbit)  
 LC50 18892 mg/m3 (rat)

5 Graphtol Red  
 CAS# 2786-76-7  
 Naphthol Red  
 PCT BY WT: 2.0000  
 EXPOSURE LIMIT:  
 OTHER LIMITS:  
 AZO Pigment

6 ACETONE  
 CAS# 67-64-1  
 ACETONE  
 PCT BY WT: 33.0000 VAPOR PRESSURE: 231.000 MMHG @ 68F LEL 2.60  
 EXPOSURE LIMIT:  
 ACGIH TLV-TWA 750 ppm  
 ACGIH TLV-STEL 1000 ppm  
 OSHA PEL-TWA 750 ppm  
 OSHA PEL-STEL 1000 ppm  
 COMPANY N. E.  
 LD50(ORAL) 5340 mg/kg (rabbit)  
 LD50(DERMAL) 20000 mg/kg (rabbit)  
 LC50 70852 mg/m3 (rat)

7 N-BUTYL ACETATE  
 CAS# 123-86-4  
 N-BUTYL ACETATE  
 PCT BY WT: 4.0000 VAPOR PRESSURE: 7.800 MMHG @ 68F LEL 1.70  
 EXPOSURE LIMIT:  
 ACGIH TLV-TWA 150 ppm  
 ACGIH TLV-STEL 200 ppm  
 OSHA PEL-TWA 150 ppm  
 COMPANY N. E.

8 METHYL ETHYL KETONE  
 CAS# 78-93-3  
 METHYL ETHYL KETONE  
 PCT BY WT: 6.0000 VAPOR PRESSURE: 85.000 MMHG @ 68F LEL 1.80  
 EXPOSURE LIMIT:  
 ACGIH TLV-TWA 200 ppm  
 ACGIH TLV-STEL 300 ppm  
 OSHA PEL-TWA 200 ppm  
 COMPANY N. E.  
 LD50(ORAL) 2737 mg/kg (rat)  
 LD50(DERMAL) 6480 mg/kg (rat)  
 LC50 23500 mg/m3 (rat)

9 GLYCOL ETHER PM ACETATE  
 CAS# 108-65-6  
 PROPYLENE GLYCOL METHYL ETHER ACETATE  
 PCT BY WT: 5.0000 VAPOR PRESSURE: 3.700 MMHG @ 68F LEL 1.30  
 EXPOSURE LIMIT:  
 ACGIH TLV-TWA NOT ESTABLISHED  
 ACGIH TLV-STEL NOT ESTABLISHED  
 LD50(ORAL) 8500 mg/kg (rat)  
 LD50(DERMAL) 5000 mg/kg (rat)  
 LC50 5321 mg/m3 (rat)

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10 TOLUENE  
CAS# 108-88-3  
TOLUENE  
PCT BY WT: 5.0000 VAPOR PRESSURE: 38.000 MMHG @ 68F LEL 1.40  
EXPOSURE LIMIT:  
ACGIH TLV-TWA 50 ppm  
ACGIH TLV-STEL NO INFO  
OSHA PEL-TWA 50 ppm  
COMPANY N. E.  
LD50(ORAL) 636 mg/kg (rat)  
LD50(DERMAL) 14124 mg/kg (rabbit)  
LC50 7523 mg/m3 (mouse)  
OTHER LIMITS:  
Prop 65-Developmental - 01/01/91

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11  
CAS# 141-78-6  
ETHYL ACETATE  
PCT BY WT: 5.0000

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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected carcinogens which are noted NTP, IARC, or OSHA-Z in the other limits recommended column.  
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\*\*\*\*\*  
This substance is classified as a hazardous air pollutant.  
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SECTION 3 - HAZARDS IDENTIFICATION

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EMERGENCY OVERVIEW:

- Harmful if swallowed.
- Harmful if inhaled.
- Causes eye irritation.
- Causes skin irritation.
- Vapors irritating to eyes and respiratory tract.
- Extremely flammable liquid and vapor.
- Vapors may cause flash fire or explosion.
- Extremely flammable aerosol.
- Contents under pressure.

EYE:

May cause severe corneal injury if liquid comes in contact with the eyes.

SKIN:

- May cause skin irritation.
- Prolonged contact with the skin can cause chemical burns.
- Harmful if absorbed through the skin.
- Skin contact may aggravate an existing dermatitis.

INHALATION:

Exposure to high concentrations of vapors may cause dizziness, breathing difficulty, headaches or respiratory irritation. Extremely high concentrations may cause drowsiness, staggering, confusion, unconsciousness, coma or death. Excessive inhalation of vapors can cause nasal and respiratory irritation. Liquid or vapor may be irritating to skin, eyes, throat or lungs. Intentional misuse by deliberately concentrating and inhaling the contents of this product can be harmful or fatal. Respiratory symptoms associated with pre-existing lung disorders may be

aggravated by exposure to material(s) is this product.

INGESTION:

Moderately toxic. May cause stomach discomfort, nausea, vomiting, diarrhea, and narcosis.

Aspiration of material into the lungs if swallowed or if vomiting occurs

can cause chemical pneumonitis which can be fatal.

May cause nausea, vomiting and diarrhea.

CHRONIC EFFECTS:

Chronic overexposure to a component or components in this material has been found to cause the following effects in laboratory animals:

Kidney damage

Eye damage

Lung damage

Liver damage

Spleen damage

Anemia

Brain damage

Chronic overexposure to a component or components in this product has been suggested as a cause of the following effects in humans:

Liver damage

Cardiac abnormalities

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Repeated breathing or skin contact of methyl ethyl ketone may increase the potency of neurotoxins such as hexane if exposures occur at the

same

time.

and Central nervous system depression, shock, coma, visual disturbances,

death. Onset of symptoms may be delayed as long as 30 hours.

cancer, Rats exposed to titanium dioxide dust at 250 mg/m<sup>3</sup> developed lung

however, such exposure levels are not attainable in the workplace with this material.

There is evidence that repeated long-term exposure to vapor concentrations greater than 50 ppm of n-butyl alcohol may result in

some

hearing loss.

Breathing air containing n-butyl acetate, which results from its use in aerosol applications, may cause delayed lung injury.

Product contains toluene which may be harmful to the fetus based on animal studies.

Repeated exposure to toluene has been associated with high frequency hearing loss in laboratory animals. The human consequences of this finding is uncertain.

In February 2000 the International Agency for Research on Cancer (IARC) classified ethylbenzene as possibly carcinogenic to humans (Group 2B)

on

the basis of sufficient evidence for carcinogenicity in experimental animals but inadequate evidence for cancer in humans.

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SECTION 4 - FIRST AID MEASURES

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EYE CONTACT:

Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

Flush with large quantities of water for 15 minutes.

SKIN CONTACT:

Wash with soap and water. Get medical attention if irritation develops or persists.

Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

Wash thoroughly with soap and water and seek medical attention if irritation persists. Remove contaminated clothing. Launder

contaminated

clothing before reuse.

INHALATION:

Remove to fresh air. If not breathing, give artificial respiration.

If

breathing is difficult, give oxygen. Get immediate medical attention. For inhalation overexposure move person to fresh air. If breathing stops, apply artificial respiration and seek medical attention.

INGESTION:

Since this product may contain materials which can cause lung damage if aspirated into the lungs, the decision whether to induce vomiting or not must be made by a physician after careful consideration of all materials ingested.

Ingestion of large quantities of this material will result in methanol poisoning. In this case treatment should include hemodialysis; the administration of ethanol to interfere with the metabolism of methanol and the administration of sodium carbonate to correct acidosis.

SECTION 5 - FIRE FIGHTING MEASURES

FIRE AND EXPLOSIVE PROPERTIES OF THE PRODUCT:

Flashpoint . . . . . : Less Than -25 øF  
Explosion Level . . . . . : Low (LEL) - 1.0  
High (UEL) - 13.1

EXTINGUISHING MEDIA:

Use Dry Chemical, Carbon Dioxide or Chemical Foam.

FIRE-FIGHTING PROCEDURES AND EQUIPMENT:

Keep containers tightly closed. Isolate from heat, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Contents under pressure. Do not use or store near sources of heat, sparks or open flame. Keep away from any source of heat such as sunlight, heaters or stoves that could cause the container to burst. Do not puncture or incinerate. Do not crush or place in a garbage compactor. Do not store above 120 degrees F. Aerosol containers may explode when exposed to extreme heat. Product vapors are heavier than air and may travel a long distance to a source of ignition and flash back.

Full protective equipment including self-contained breathing apparatus to avoid inhalation of vapors should be used. Water spray should not be used except to keep down vapors or cool closed containers to prevent build-up of pressure. If water is used, fog nozzles are preferred.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

CLEAN-UP AND CONTAINMENT:

Remove all sources of ignition. Avoid heat, sparks, flames and anything which could cause fire. Ventilate area of spill and adjacent low lying areas. Avoid breathing solvent vapors. Remove with inert absorbent materials and non-sparking tools.

SECTION 7 - HANDLING AND STORAGE

HANDLING:

Wash hands thoroughly after handling. This product contains chemical(s) which are listed on California's proposition 65 list. If the product is to be sold or used in California

a clear and reasonable warning must be provided such as: Warning! This product contains a chemical or chemicals known to the State of California to cause cancer.

STORAGE:

Store in a cool dry area with ventilation suitable for storing

materials

shown in section 2.

Keep away from heat, sparks and flame.

Store in a cool place away from direct sunlight or any source of ignition. Do not store at temperatures above 120 degrees F.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS:

Sufficient ventilation, in volume and pattern, should be provided to keep

air contamination below current applicable OSHA permissible exposure limit or ACGIH's TLV limit.

RESPIRATORY PROTECTION:

If workplace exposure limits are exceeded for any component(see section 2 for hazardous components and exposure limits), a NIOSH/OSHA approved respirator suitable for components listed is recommended.

SKIN PROTECTION:

Chemical resistant plastic or rubber gloves recommended for prolonged or repeated contact.

EYE PROTECTION:

Chemical goggles with side shields or face shield recommended if contact with the eyes is likely.

OTHER PROTECTIVE EQUIPMENT:

Appropriate impervious clothing is recommended if prolonged or repeated contact is likely.

HYGIENIC PRACTICES:

Wash hands before eating or smoking. Smoke in designated areas only.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure . . . . .	: 5585.20	mm Hg @ 20 C
Vapor Density . . . . .	: 3.70	
Boiling Range . . . . .	: Lower - 1.0	øF
	: Higher - 302.0	øF
Specific Gravity . . . . .	: .758	
Formula Weight per Volume . . . . .	: 6.3113	LB/GL
VOC (Calculated, LB/GAL) . . . . .	: 4.750	
VOC (Calculated, GM/L) . . . . .	: 569.19	
Percent Volatile by Weight. . . . .	: 84.4548	
Percent Volatile by Volume . . . . .	: 90.3543	
Evaporation Rate . . . . .	: 7.700	(n-Butyl Acetate = 1)
Viscosity . . . . .	: -N/A	

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

Avoid contact with heat, sparks, and open flame.

Product may explode if heated. Keep cool, avoid exposure to heat.

INCOMPATIBILITIES:

Strong oxidizing agents.

DECOMPOSITION:

Thermal decomposition may produce carbon dioxide, carbon monoxide, and unidentified organic materials.

POLYMERIZATION:

No hazardous polymerization will occur under normal conditions.

STABILITY:

The product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

No specific information is available. Please refer to Section 2 and 3  
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RZ101772 (10120 Hot Sauce).TXT  
for available information on exposure limits and hazards  
identification.

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SECTION 12 - ECOLOGICAL INFORMATION  
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No specific ecological information is available for this product.

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SECTION 13 - DISPOSAL CONSIDERATIONS  
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WASTE DISPOSAL:  
Place in closed containers. Dispose of product in accordance with  
local,  
county, state, and federal regulations.

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SECTION 14 - TRANSPORT INFORMATION  
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Ground shipment of limited or excepted quantities of aerosols or liquid  
paint in containers of 1 quart or less:  
CONSUMER COMMODITY, ORM-D  
Ground shipment of liquid paint in containers more than 1 quart:  
PAINT, FLAMMABLE LIQUID, UN1263, CLASS 3, GROUP II  
(Regulatory sources: DOT 49CFR 172.101)

Air shipment of limited or excepted quantities of aerosols or liquid  
paint  
in containers of 1 quart or less:  
CONSUMER COMMODITY, ID 8000, CLASS 9 MISCELLANEOUS LABEL  
(Regulatory sources: IATA Quantity Exemptions - Table 2.8.4, 2.7.A,  
2.7.5, Packaging Instruction: 910)

OR  
AEROSOLS, FLAMMABLE, UN1950, CLASS 2.1 LABEL  
(Regulatory sources: IATA Quantity Exemptions - Table 2.8.1, 2.8.4,  
Packaging Instruction: Y203)

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SECTION 15 - REGULATORY INFORMATION  
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SARA 313 INFORMATION:

This product contains the following substances subject to the  
reporting requirements of Section 313 of Title III of the Superfund  
Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

ETHYLBENZENE

CAS# 100-41-4            PCT BY WT:        .2680

XYLENE

CAS# 1330-20-7        PCT BY WT:        1.2720

TOLUENE

CAS# 108-88-3        PCT BY WT:        5.3190

FEDERAL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT: The chemical substances in this product  
are listed on the TSCA Section 8 inventory.

STATE REGULATIONS:

This product contains chemical(s) which are listed on California's  
proposition 65 list. If the product is to be sold or used in  
California

a clear and reasonable warning must be provided such as:

RZ101772 (10120 Hot Sauce).TXT

Warning! This product contains a chemical or chemicals known to the State of California to cause cancer.

Warning! This product contains a chemical or chemicals known to the State of California to cause birth defects or other reproductive harm.

NEW JERSEY RIGHT-TO-KNOW

No non-hazardous ingredients are among the top five ingredients

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PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3 %

----- CHEMICAL NAME ----- CAS NUMBER

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INTERNATIONAL REGULATIONS:

CANADA: The chemical substances in this product are listed on the Canadian Domestic Substances List.

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SECTION 16 - OTHER INFORMATION

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The information contained on this MSDS is believed to be reliable and accurate. Due to the changing nature of government information, it is impossible to guarantee the accuracy of the information contained herein. Since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by the use of this material. This information should not be regarded as legal advice or regulation. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations. For questions relating to specific aspects of the requirements and regulations

consult the proper regulatory agency.

HMS RATINGS:

HEALTH: 2\*    FLAMMABILITY: 4    REACTIVITY: 0    PERSONAL PROTECTION: X

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