### MATERIAL SAFETY DATA SHEET FOR RADNOR® 64000209 AEROSOL SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

| PRODUCT NAME<br>PRODUCT USE<br>ITEM CODE(S)<br>ADDRESS            | : | RADNOR® DEVELOPER STANDARD GRADE<br>INSPECTION DEVELOPER<br>64000209<br>RADNOR PRODUCTS<br>259 N. RADNOR-CHESTER ROAD SUITE 100 |
|---|---|---|
| EMERGENCY TELEPHONE<br>PREPARATION DATE<br>OSHA REGULATORY STATUS | : | RADNOR, PA 19087-5283<br>866-734-3438<br>DECEMBER 01, 2007<br>REGULATED   |

# SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

| ID | HAZARDOUS INGREDIENTS   | CAS         | OSHA PEL   |           | ACGIH TLV |     | LD50 SPECIES/ROUTE   | LC50 SPECIES/ROUTE       | %WT     |
|----|-------------------------|-------------|------------|-----------|-----------|-----|----------------------|--------------------------|---------|
| 1  | METHYLENE CHLORIDE      | 000075-09-2 | 25         | ppm       | 50        | ppm | 1,600 mg/kg rat/oral | 52 mg/l /6hr rat/inhal   | 60-100% |
| 2  | LIQDEFIED PETROLEUM GAS | 068476-85-7 | 1000       | ppm       | 1000      | ppm | N/Av                 | 57.42% v/v mouse/inhal   | 10-30%  |
| 3  | CALCIUM CARBONATE       | 000471-34-1 | 15         | mg/<br>m3 | N/E       |     | 6450 mg/kg rat/oral  | N/Av                     | 3-7%    |
| 4  | METHYL ALCOHOL          | 000067-56-1 | 200        | maa       | 200       | maa | 5628 mg/kg rat/oral  | 64000 ppm /4hr rat/inhal | 1-5%    |
| 5  | BENTONITE CLAY          | 121888-66-2 | 200<br>N/E | ppin      | N/E       | ppm | >5000 mg/kg rat/oral | N/Av                     | 1-5%    |

# SECTION 3. HAZARDS IDENTIFICATION

# **EMERGENCY OVERVIEW**

CONTENTS UNDER PRESSURE. STORE BELOW 120°F(49°C), OUT OF SUNLIGHT AND AWAY FROM HEAT SOURCES. DO NOT PUNCTUE OR INCINERATE. AVOID CONTACT WITH SKIN AND EYES. VAPOR HARMFUL. HARMFUL OR FATAL IF SWALLOWED. EYE AND SKIN IRRITANT. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

EYE: Liquid or vapors may cause redness, burning, tearing, swelling and/or pain.

SKIN: Frequent or prolonged contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

INGESTION: Due to being an aerosol, product does not lend itself to ingestion. Should ingestion occur, it may cause irritation to membranes of the mouth, throat and gastrointestinal tract, resulting in vomiting and/or cramps.

INHALATION: Prolonged or repeated overexposure is anesthetic. May cause irritation of the respiratory tract, or acute nervous system depression characterized by headache, dizziness, staggering gait, or confusion.

EFFECTS OF ACUTE EXPOSURE: N/Av EFFECTS OF CHRONIC EXPOSURE: N/ Av OTHER IMPORTANT HAZARDS: N/Av

# SECTION 4. FIRST AID MEASURES

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist or if unconscious.

INGESTION: Unlikely due to being in aerosol form. Should actual ingestion occur, do not induce vomiting! Drink a glass of water or milk to dilute. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. EYE CONTACT: Immediately flush with plenty of clear water for at least 15 minutes. Make sure to flush under the eyelids. Consult a physician for definitive treatment.

SKIN CONTACT: Remove with soap and water. Continue flushing with water for several minutes. Use skin cream to counter resulting dryness. Consult a physician if irritation continues or if large skin area is affected.

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CONDITIONS OF FLAMMABILITY: Heat, sparks, flame, red hot metal. MEANS OF EXTINCTION: For warehouse and storage conditions, use NFPA Class B extinguishers (CO<sub>2</sub>, dry chemical or universal aqueous film forming foam). SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool fire exposed aerosol containers for containers can rupture violently from heat developed pressure. UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. In addition, when liquid or vapor comes into contact with flames or red hot metal, products of combustion will be created. Firemen should wear self-contained breathing apparatus. FLASH POINT / DETERMINATION: N/Av UPPER FLAMMABLE LIMIT: N/Av LOWER FLAMMABLE LIMIT: N/Av AUTO-IGNITION TEMPERATURE: 1,184°F (640°C) HAZARDOUS COMBUSTION PRODUCTS: N/Av EXPLOSION DATA - SENSITIVITY TO MECHANICAL IMPACT: N/Av EXPLOSION DATA - SENSITIVITY TO STATIC DISCHARGE: N/Av

# SECTION 6. ACCIDENTAL RELEASE MEASURES

LEAK / SPILL RESPONSE: Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content should be contained as any other solvent spill. Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, avoid breathing vapors and ventilate area well. Remove all sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.

SPECIAL INSTRUCTIONS: Aerosol products represent a limited hazard and will not spill or leak unless ruptured. In case of rupture contents are generally evacuated from the can rapidly. Area should be ventilated immediately and continuous ventilation provided until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned. See Section 13 for disposal considerations.

### SECTION 7. HANDLING AND STORAGE

HANDLING PROCEDURES / EQUIPMENT: Avoid prolonged or repeated skin contact. Avoid breathing vapors.

STORAGE REQUIREMENTS: Store in area below 120°F (49°C). Do not incinerate (burn) containers. Assure can is in a secure place to prevent knocking over and accidental rupture. Always replace overcap when not in use. For store of pallet quantities, compliance with ANSI/NFPA 30B is recommended.

#### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION: Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact could occur, chemical splash proof goggles are recommended.

SKIN PROTECTION: For brief contact, no precautions other than clean bodycovering clothing should be needed. When prolonged or repeated contact could



occur, use protective clothing such as Sol-Vex® gloves or other clothing impervious to the ingredient listed in Section 2. ENGINEERING CONTROLS: General ventilation (typically 10 air changes for hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system, may be needed to control air contamination below that of the lowest TLV/PEL rated ingredient from Section 2.

EXPOSURE GUIDELINE LEVELS: Since this product is a mixture, an OSHA or ACGIH exposure value is not available. In determination of any exposure procedures, protection or testing use the lowest rated ingredient in Section 2.

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# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Boiling Point               | 104 F (39.8 C)         | Melting/Freezing Point                  | -142 F (-96.7 C)            |
|-----------------------------|------------------------|---|-----------------------------|
| Flash Point, Liquid Content | None                   | Flash Point, Propellant                 | -156 F (-104.4 C)           |
| Explosive Limits            | 6.0% to 36.0%          | Autoignition Temperature                | 1,184 F (640 C)             |
| Flammability                | Non-Flammable          | Specific Gravity (H <sub>2</sub> O = 1) | 1.020 g/cc                  |
| Molecular Weight            | Not Available          | Weight                                  | 8.513 lbs/gal               |
| Vapor Pressure              | 400 mm Hg (Liquid)     | рН                                      | Not Available               |
| Vapor Density               | 2.93                   | Evaporation Rate                        | 27.5 (n-Butyl Acetate = 1)  |
| Physical State              | Liquid Under Pressure  | Partition Coefficient                   | Log P(oct) = 1.25           |
| Viscosity                   | 0.43 cp @ 20 C         | Refractive Index                        | Not Available               |
| Percent Volatile            | 96% Wt (99% Vol) Max   | VOC Content                             | 2.042 lbs/gal (244.712 g/l) |
| Percent VOC                 | 24% Wt (43% Vol) Max   | HAP Content                             | 0.340 lbs/gal (40.700 g/l)  |
| Odor Threshold              | Not Available          | MIR Value                               | 0.273 g O <sub>3</sub> /g   |
| Odor                        | Strong Ether-like      | Water Solubility                        | 2 g/100 mL @ 20 C           |
| Appearance                  | Clear Colorless Liquid | Heat of Combustion                      | 13.432 MG/kg                |

### SECTION 10. STABILITY AND REACTIVITY

STABILITY: Stable. CONDITIONS TO AVOID: Heat, sparks, flame, red hot metal. MATERIALS TO AVOID (INCOMPATIBILITIES): Strong oxidizing materials. CONDITIONS OF REACTIVITY: N/Av HAZARDOUS DECOMPOSITION BYPRODUCTS: Oxides of carbon, HCI fumes and possible trace amounts of phosgene. HAZARDOUS POLYMERIZATION: Will not occur.

## SECTION 11.TOXICOLOGICAL INFORMATION

| ID | ORAL LD50         | DERMAL LD50          | INHALATION LC50      |
|----|-------------------|----------------------|----------------------|
| 1  | 1600 mg/kg, rat   | > 2000 mg/kg, rabbit | 52 mg/l /6 hr, rat   |
| 2  | Not Available     | Not Available        | 57.42% v/v, mouse    |
| 3  | 6450 mg/kg, rat   | Not Available        | Not Available        |
| 4  | 5628 mg/kg, rat   | 15800 mg/kg, rabbit  | 64000 ppm /4 hr, rat |
| 5  | > 5000 mg/kg, rat | Not Available        | Not Available        |

ROUTES OF ENTRY: INHALATION[Y] EYE CONTACT[Y] SKIN CONTACT[Y] SKIN ABSORPTION[Y] INGESTION[N] EXPOSURE LIMITS: Since this product is a mixture, an OSHA or ACGIH exposure value is not available. In determination of any exposure procedures, protection or testing use the lowest rated ingredient in Section 2.

IRRITANCY OF PRODUCT: N/Av

SENSITIZATION TO PRODUCT / MEDICAL CONDITIONS AGGRAVATED: N/Av

CARCINOGENICITY: This product contains Methylene Chloride (MC), a substance known to the State of California to cause cancer. MC is listed with IARC as Group 2B, "Possibly Carcinogenic to Humans". NIOSH considers MC to be a "Potential Occupational Carcinogen". NTP lists MC as "Reasonably Anticipated To Be A Human Carcinogen". ACGIH lists MC as Group A3, "Animal Carcinogen". MC is not listed with OSHA as Carcinogenic.

TERATOGENICITY / MUTAGENICITY / REPRODUCTIVE TOXICITY: Methyl Alcohol is considered a teratogen. Methylene Chloride is considered a mutagen. None of the ingredients are reproductive toxicants.

TOXICOLOGICAL DATA: N/Av

# SECTION 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS: This product has not been tested for environmental effects. IMPORTANT ENVIRONMENTAL CHARACTERISTICS: N/Av AQUATIC TOXICITY: N/Av WASTE DISPOSAL: Characteristics and waste stream classification can change with product use and location. It is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste must be disposed of in compliance with the respective national, federal, state, and/or local regulations.

WASTE DISPOSAL OF PACKAGING: In the United States, an aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40 CFR 261.1(c)(6)), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(3)(iv) if it is to be recycled. If containers are to be disposed of (not recycled) it must be managed under all applicable RCRA and state regulations.

LANDFILL PRECAUTIONS: Not Available

INCINERATION PRECAUTIONS: \*\* DO NOT INCINERATE \*\* CONTENTS UNDER PRESSURE \*\*

### **SECTION 14. TRANSPORTATION INFORMATION**

DOT HM-181 SHIPPING INFORMATION PROPER SHIPPING NAME HAZARD CLASS OR DIVISION UN NUMBER PACKAGING GROUP LABEL(S) REQUIRED LEVEL

Consumer Commodity
ORM-D
1950
none
none
1



# SECTION 15. REGULATORY INFORMATION

#### UNITED STATES - FEDERAL:

|    | TSCA         | SARA 302 |      |        |          |              |            | SARA 311/312 |              |          | CLEAN   | CLEAN     |
|----|--------------|----------|------|--------|----------|--------------|------------|--------------|--------------|----------|---------|-----------|
| ID | INVENTORY    | EHS      | RCRA | CERCLA | SARA 313 | FIRE         | REACTIVITY | ACUTE        | CHRONIC      | PRESSURE | AIR ACT | WATER ACT |
| 1  | $\checkmark$ | —        | U080 | 1000 # | 72 %     | —            | —          | $\checkmark$ | $\checkmark$ |          | HAP     | PP        |
| 2  | $\checkmark$ |          | _    | _      |          | $\checkmark$ |            | $\checkmark$ | _            | ~        | _       | _         |
| 3  | $\checkmark$ |          |      | _      |          | _            | _          | $\checkmark$ | _            |          | _       | _         |
| 4  | $\checkmark$ | _        | U154 | 5000 # | 3.9 %    | $\checkmark$ | _          | $\checkmark$ | $\checkmark$ |          | HAP     |           |
| 5  | $\checkmark$ | —        |      | —      | —        | —            | —          | —            | —            | —        | —       | —         |

#### **UNITED STATES - STATES:**

| • • • • |    | 0.7.120 0. |              |              |                         |              |           |              |              |              |
|---------|----|------------|--------------|--------------|-------------------------|--------------|-----------|--------------|--------------|--------------|
|         | ID | CALIFORNIA | DELAWARE     | FLORIDA      | MASSACHUSETTS           | PENNSYLVANIA | MINNESOTA | NEW JERSEY   | NEW YORK     | WASHINGTON   |
|         | 1  | С          | $\checkmark$ | $\checkmark$ | 1,2,3,4,5,6 *E*C* F7 F8 | ES           | ANO       | $\checkmark$ | $\checkmark$ | $\checkmark$ |
|         | 2  | —          | —            |              | _                       | —            | —         | —            | —            | —            |
|         | 3  | —          | —            |              | —                       | —            | Α         | —            | —            |              |
|         | 4  | —          | —            | $\checkmark$ | 2,4,5,6 F8 F9           | E            | ANO       | $\checkmark$ | ~            | ~            |
|         | 5  | _          |              |              | —                       | _            | —         | —            | —            |              |

#### **SECTION 16. OTHER INFORMATION**

| Not Established   |
|---|
| Not Available   |
| Not Applicable  |
| International Agency for Research on Cancer               |
| American Conference of Governmental Industrial Hygienists |
| National Institute for Occupational Health and Safety     |
| Threshold Limit Values, Time Weighted Average             |
| North American Emergency Response Guidebook               |
|   |

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