Randolph Products Company

MIL-PRF-23377K TYPE 1 CLASS C2 CATALYST- 10CC

Date Printed: 9/12/2019

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1. Product and Company Identification

Product Name : MIL-PRF-23377K TYPE 1, CLASS 2, CHROMATED EPOXY POLYAMIDE PRIMER

YELLOW - TWO COMPONENT TOUCH-UP PEN

Product Code : 80106030 (PART B)

Recommended Use: Please refer to Product Information/Technical Data Sheet.

Company Identification:

Randolph Products Company

33 Haynes Circle

Chicopee, MA 01020

Information Phone: 413-592-4191

Emergency Phone: ChemTel 800-255-3924

Product filled by:

Delaware Paint Company 8455 Rausch Drive

Plain City, Oh 43064

740-368-9981

2. Hazards Identification

EMERGENCY OVERVIEW

DANGER

Highly Flammable Liquid & Vapor, Category 2
Acute Toxicity, Category 3
May be corrosive to metals
Causes severe skin burns and eye damage, Category 1
Chronic Toxicity, (Toxic to Reproduction) Category 1A
Aspiration Hazard, Category 1







Potential Health Effects Eye:

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Causes severe burns and permanent eye damage. May cause corneal opacity (clouding of eye surface). Can cause burning sensation, tearing and redness. Causes eye irritation.

Skin:

Prolonged or repeated contact may dry the skin and lead to irritation (i.e. dermatitis). Causes severe burns and

possibly permanent skin damage. Can cause redness, itching and burning sensation. Causes skin irritation.

Ingestion:

May be fatal if swallowed and enters airways.

If swallowed, immediately call a poison control center or physician. Do NOT induce vomiting.

Inhalation:

Causes burns to the eyes, nose and respiratory tract. Can cause dizziness, breathing difficulty, headaches & loss of

coordination. Nausea, vomiting, and stomach upset can occur. Can cause wheezing, coughing, shortness of breath,

and tightness in the chest. May cause drowsiness or dizziness.

Chronic (Cancer) Information:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probably, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at leveles greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA: No component of this product present at leveles greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No component of this product present at leveles greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Teratology (Birth Defects) Information:

May damage fertility or the unborn child.

Reproduction Information:

Contains xylene, which may harm the developing fetus if a pregnant woman is overexposed. Xylene may affect the liver, kidneys, G.I., blood.

Aggravation of Pre-Existing Conditions: Dermititis or other skin conditions.

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Composition/Information on Ingredien	ts
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Component	CAS#	% by Wt.
METHYL ETHYL KETONE	78-93-3	17
ACGIH: 200 PPM TWA OSHA: 200 PPM TWA		
*+ XYLENE	1330-20-7	11
ACGIH: 100 PPM TWA		
OSHA: 100 PPM TWA		
TRIS-2,4,6-(DIMETHYLAMINOMETHYL)PHENOL	90-72-2	9
NONE ESTABLISHED, CORROSIVE		
ACETONE	67-64-1	5
ACGIH TLV: 500 PPM TWA		
ACGIH TLV: 750 PPM STEL		
OSHA PEL: 1000 PPM TWA		
OSHA VPEL: 750 PPM TWA		
OSHA VPEL: 1000 PPM STEL		

4. First Aid Measures

Eyes:

Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. If easy to do, remove contact lenses. Get medical attention as soon as possible. Oils or ointments should not be used at this time. Do not attempt ot neutralize with chemical agents. Continue the flushing for an additional 15 minutes if a physician is not immediately available. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Skin:

Immediately flush with plenty of water for at least 15 minutes. For large exposures use an emergency shower. Remove contaminated clothing and shoes. Get immediate medical attention. Professionally wash clothing before re-use. If on skin: wash with plenty of soap & water. If skin irritation occurs: Get Medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Ingestion:

May be fatal if swallowed and enters airways.

If swallowed: Immediately call a poison center/physician.

Do NOT induce vomiting.

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Inhalation:

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison control center/get medical attention if you feel unwell.

Note to Physicians:

Aspiration hazard - do not induce vomiting

5. Fire Fighting Measures

Flammable Properties:

Flash Point: -4 F Method: TCC

Explosive Limits:

Lower explosive limit: 1.0 Upper explosive limit: 12.8

Autoignition Temperature:

INFORMATION NOT AVAILABLE.

Hazardous Combustion Products:

Smoke, soot and carbon dioxide, carbon monoxide.

Extinguishing Media:

Dry chemical, CO2, Halon, Foam

Firefighting Procedures:

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: High temperatures can cause sealed

containers to rupture due to a build up of

internal pressure. Cool with water spray. Vapors are heavier than air and can travel some distance away and flash

back.

Sensitivity to Static Discharge: Material may accumulate a static charge which could act as an ignition source.

Precautions should be taken when pouring to minimize splash/free fall.

6. Accidental Release Measures

Small Spill:

See Information for Large Spill, below:

Large Spill:

Use personal protective equipment. Ensure adequate ventilation. Remove all

sources of ignition. Evacuate personnel to

safe areas. Beware of vapors accumulating to form explosive concentrations.

Vapors can accumulate in low areas.

Environmental Precautions:

INFORMATION NOT AVAILABLE.

Methods/Materials for Containment and Cleaning Up:

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Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/state/federal regulations.

7. Handling and Storage

Handling:

Keep away from heat, sparks, open flames, hot surfaces. NO SMOKING. Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/processing equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/eye protection/face protection.

Storage:

Prevent unauthorized access.

Store in a well ventilated place.

Keep container tightly closed.

Keep cool.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

SEE SECTION 3 FOR THIS INFORMATION

Engineering Controls:

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions.

Ventilation should be explosion proof.

Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special

circumstances such as poorly ventilated spaces, spray painting, mechanical generation of dusts, heating, drying, etc.

Personal Protective Equipment

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be

worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance

with OSHA Standard 63 CFR 1152, January 8, 1998. Respirator type: Organic Vapor.

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Skin Protection:

Wear impervious gloves to prevent skin contact.

Recommended Decontamination Facilities: eye bath, washing facilities, safety shower.

Eye Protection:

Chemical safety goggles or glasses with side shields.

9. Physical and Chemical Properties

Boiling Point: 133 F

Melting Point:

INFORMATION NOT AVAILABLE.

Freezing Point: n/a

Vapor Pressure:

Information not available for mixture

Vapor Density: HEAVIER THAN AIR Solubility in Water:

NEGLIGIBLE

Evaporation Rate: SLOWER THAN ETHER

Specific Gravity: .912

Coating VOC: 2.26 lb/gl

Material VOC: 2.14 lb/gl

Odor:

Mild solvent odor.

Appearance:

Liquid.

Partition Coefficient:
INFORMATION NOT AVAILABLE.

10. Stability and Reactivity

Chemical Stability (Conditions to Avoid):

Stable under normal storage/use conditions.

Incompatibility:

Avoid strong oxidizing agents, acids and alkalies.

Hazardous Decomposition Products:

INFORMATION NOT AVAILABLE.

Hazardous Polymerization:

Will not occur under normal conditions.

11. Toxicological Information

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MIL-PRF-23377K TYPE 1 CLASS C2 CATALYST-10CC Date Printed: 9/12/2019 Page 7 of 13 Eye Irritation/Damage: Component 1330-20-7: Mild eye irritation, Category 2B Component 67-64-1: Mild eye irritation, Category 2b Component 110-43-0: Mild eye irritation, Category 2b Component 90-72-2: Serious eye damage, Category 1 Skin Irritation/Damage: Component 1330-20-7: LD50: 15,433, rabbit. Category 5. Mild irritation to skin. Category 2. Component 67-64-1: LD50: 7426 mg/kg, rat. Category 5 Mildly irritating to skin. Component 110-43-0: LD50: >2000 mg/kg, rat. Category 5 Component 90-72-2: LD50: no data Extrememly corrosive to skin, Category 1A Acute Oral Toxicity: Component 1330-20-7: LD50: 5000 mg/kg, rat. Category 5 Component 67-64-1: LD50: 5800 mg/kg, rat. Category 5 Component 110-43-0: LD50: 1670 mg/kg, rat. Category 4 Component 90-72-2: LD50: 2169 mg/kg, rat. Not categorized. Acute Inhalation Toxicity: Component 1330-20-7: LD50: 18.8-25.9 mg/L, rat. Category 4 Component 67-64-1: LC50: 16000 mg/l, rat. Category 4

Component 110-43-0:

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MIL-PRF-23377K TYPE 1 CLASS C2 CATALYST- 10CC Date Printed: 9/12/2019 Page 8 of 13 LD50: >16.7 mg/kg, rat. Category 4 Component 90-72-2: No data Respiratory/Skin Sensitization: Component 1330-20-7: No evidence of respiratory or skin sensitization. Component 67-64-1: No evidence of respiratory or skin sensitization. Component 110-43-0: No evidence of respiratory or skin sensitization. Component 90-72-2: Caused skin sensitization in animal studies. May cause respiratory sensitization, resulting in allergic respiratory reactions including wheezing, shortness of breath and difficulty breathing. Carcinogenicity: Component 1330-20-7: Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH. Component 67-64-1: Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH Component 110-43-0: Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH. Component 90-72-2: Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH Reproductive Toxicity: Component 1330-20-7: Known human reproductive toxicant; Category 1A Component 67-64-1: No evidence of human reproductive toxicity. Component 110-43-0: No evidence of human reproductive toxicity. Component 90-72-2: No evidence of human reproductive toxicity. Germ Cell Mutagenicity:

Component 1330-20-7:

No data

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Date Printed: 9/12/2019 Page 9 of 13 Component 67-64-1: No data Component 110-43-0: No data Component 90-72-2: No data Aspiration Toxicity: Component 1330-20-7: Aspiration Hazard; Category 1 Component 67-64-1: Not classified as an Aspiration Hazard. Component 110-43-0: Not classified as an Aspiration Hazard. Component 90-72-2: Corrosive to respiratory tract. STOT-single exposure Component 1330-20-7: No data Component 67-64-1: No Data Component 110-43-0: No data Component 90-72-2: Respiratory tract irritation. STOT-repeated exposure Component 1330-20-7: No data Component 67-64-1: No data Component 110-43-0: No data Component 90-72-2: Corrosive to respiratory system, severe digestive tract burns, severe skin burns and eye damage, harmful if inhaled, harmful if swallowed.

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Routes of Exposure:

Inhalation of vapors, skin/eye/mucous membrane absorption, ingestion.

12. Ecological Information

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Environmental Toxicity:
Component 1330-20-7:
LC50: 8.4 mg/l (fish); EC50: 9.55 mg/l (daphnia); EC50: 3.2 mg/l (algae)
Component 67-64-1:
LC50: 6100 mg/l (fish); EC50: 7630 mg/l (daphnia)
Component 110-43-0:
LC50: 131 mg/l (fish); EC50: >90.1 mg/l (daphnia); EC50: 98.2 mg/l (algae);
EC50: <10 mg/l (bacteria)
Component 90-72-2:
LC50: 175 mg/l (fish)
Persistance & degradability:
Component 1330-20-7:
Readily biodegradable
Component 67-64-1:
Readily biodegradable
Component 110-43-0:
Readily biodegradable
Component 90-72-2:
Not readily biodegradable
Bioaccumulative potential:
Component 1330-20-7:
Not expected to bioaccumulate
Component 67-64-1:
Does not bioaccumulate
Component 110-43-0:
No Data
Component 90-72-2:
No data
Mobility in soil:
Component 1330-20-7:
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No data

Component 67-64-1:

no data

Component 110-43-0:

No data

Component 90-72-2:

No data

Other Adverse Ecological Effects:

Component 1330-20-7:

Toxic to aquatic life with long lasting results.

Component 90-72-2:

Harmful to aquatic life

13. Disposal Considerations

Waste Disposal Method:

Discharge, treatment or disposal is subject to national, state, or local laws.

When a decision is made to discard this

material as supplied, it meets RCRA's characteristic definitions of ignitability and corrosivity. The toxicity

characteristic (TC) has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

Federal Regulations may apply to empty container. State and/or local regulations may be different.

Of the methods of disposal currently available, it is recommended that an alternative be selected according to the

following order of preference, based upon environmental acceptability: (1) recycle or rework, if feasible; (2)

incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility.

Be sure to contact the appropriate government environmental agencies if further guidance is required.

14. Transport Information

Domestic (Land, DOT), International (Water, IMO/IMDG), International (Air, ICAO) Road and Rail (ADR/RID), Air (ICAO/IATA), Vessel (IMO/IMDG):

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DOT (USA) Shipping Name: Paint Related Material

UN/NA ID No: UN1263

Hazard Class: Class 3 (IATA/49CFR)

Packing Group: II

Environmental Hazards:

INFORMATION NOT AVAILABLE.

Marine Pollutant:

Components of this product do not appear on the list of Marine Pollutants (49CFR

172.101)

Special Precautions for User:

INFORMATION NOT AVAILABLE.

15. Regulatory Information

U.S. Federal Regulations:

TSCA: All components of this material are on the US TSCA 8(b) Inventory or are exempt from listing.

OSHA:

This product is hazardous under OSHA's Hazard Communication Std. Not regarded as a health hazard under current

legislation.

CERCLA: SARA Hazard Category:

INFORMATION NOT AVAILABLE.

Section 313:

"*" Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

International Regulations:

Canadian WHMIS:

INFORMATION NOT AVAILABLE.

Canadian Environmental Protection Act (CEPA):

INFORMATION NOT AVAILABLE.

EINECS:

INFORMATION NOT AVAILABLE.

State Regulations:

"+" Indicates a Clean Air Act Hazardous Air Pollutant (HAP).

Volatile Organic Compounds:

COATING VOC content is being expressed as mass of VOC per unit volume of coating less water and exempt solvents, where

applicable.

MATERIAL VOC content is the actual weight of VOC per unit volume.

16. Other Information

Date Revised: 06/01/15

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Prepared By: Regulatory Compliance

Information Contact: Regulatory Compliance 413-592-4191 ext 106

Manufacturer Disclaimer:

USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the

user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to

determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and

safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate.

However, 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 use of this material. All chemicals may present unknown health hazards and should be

used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards

which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No

representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any

other nature are made hereunder with respect to the information contained herein or the chemical to which the

information refers. These data relate only to the specific material designated herein and do not relate to use in

combination with any other material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

End of Material Safety Data Sheet