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Material Safety Data Sheet (MSDS) FOR THE M291 SKIN DECONTAMINATING KIT.

MSDS for the resin in the M291 kit follows. This MSDS was taken from the HMIS system. It represents the best data available. It is presented as a guide and as assistance only. The information is for the reader's consideration and verification by laboratory testing. While The Demil Team, The Environmental Quality Office, the Edgewood Research, Development and Engineering Center believe that the data given in the enclosed MSDS are accurate, the Government makes no warranty with respect to the MSDS and disclaims any and all liabilities for reliance on the information contained in this document.

DOD Hazardous Materials Information System
DoD 6050.5-L
AS OF August 1994

FSC: 4230
NIIN: 012761905
Manufacturer's CAGE: 77902
Part No. Indicator: A
Part Number/Trade Name: SKIN DECONTAMINATING KIT,M291-E

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General Information

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Item Name: SKIN DECONTAMINATING KIT
Manufacturer's Name: ROHM AND HAAS CO
Manufacturer's Street: INDEPENDENCE MALL WEST
Manufacturer's P. O. Box:
Manufacturer's City: PHILADELPHIA
Manufacturer's State: PA
Manufacturer's Country: US
Manufacturer's Zip Code: 19105
Manufacturer's Emerg Ph #:
215-592-3000,800-424-9300(CHEMTREC)
Manufacturer's Info Ph #: 215-592-3000
Distributor/Vendor # 1:
Distributor/Vendor # 1 Cage:
Safety Data Action Code:
Safety Focal Point: A
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SE
Date MSDS Prepared: 08MAY92
Safety Data Review Date: 15SEP93
Supply Item Manager: CX
MSDS Preparer's Name:
Preparer's Company:
Preparer's St Or P. O. Box:
Preparer's City:
Preparer's State:
Preparer's Zip Code:
Other MSDS Number:
MSDS Serial Number: BPZVS

Specification Number:
Spec Type, Grade, Class:
Hazard Characteristic Code: N1
Unit Of Issue: BX
Unit Of Issue Container Qty: 20 EA/BOX
Type Of Container: BOX
Net Unit Weight: UNKNOWN
NRC/State License Number: N/R
Net Explosive Weight:
Net Propellant Weight-Ammo: N/R
Coast Guard Ammunition Code:

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Ingredients/Identity Information

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Proprietary: NO
Ingredient: GRAPHITE,SYNTHETIC
Ingredient Sequence Number: 01
Percent: 32-33
Ingredient Action Code:
Ingredient Focal Point: A
NIOSH (RTECS) Number: FF5250100
CAS Number: 7440-44-0
OSHA PEL: 15 MG/M3 TDUST
ACGIH TLV: 2 MG/M3 TDUST; 9293
Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO
Ingredient: STRONG BASE ANION EXCHANGE POLYMER,
HYDROXIDE ION
Ingredient Sequence Number: 02
Percent: 11-33
Ingredient Action Code:
Ingredient Focal Point: A
NIOSH (RTECS) Number: 1009291SB
CAS Number: 9017-79-2
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO
Ingredient: STRONG ACID CATION EXCHANGE POLYMER HYDROGEN ION
Ingredient Sequence Number: 03
Percent: 14-24
Ingredient Action Code:
Ingredient Focal Point: A
NIOSH (RTECS) Number: 1009292SA
CAS Number: 65405-46-1
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO
Ingredient: SILICA,AMORPHOUS.ACGIH TLV FOR TOTAL DUST CONTAINING NO ASBESTOS & <1%
CRYSTALLINE SILICA.
Ingredient Sequence Number: 04
Percent: 2
Ingredient Action Code:
Ingredient Focal Point: A

NIOSH (RTECS) Number: 1002640SI

CAS Number: 7631-86-9

OSHA PEL: 6 MG/M3 TOTAL DUST

ACGIH TLV: 10 MG/M3 TOTAL DUST

Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO

Ingredient: WATER

Ingredient Sequence Number: 05

Percent: 23-32

Ingredient Action Code:

Ingredient Focal Point: A

NIOSH (RTECS) Number: ZC0110000

CAS Number: 7732-18-5

OSHA PEL: NOT ESTABLISHED

ACGIH TLV: NOT ESTABLISHED

Other Recommended Limit: NONE RECOMMENDED

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Physical/Chemical Characteristics

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Appearance And Odor: BLACK,FREE-FLOWING,POWDERED SOLID.

Boiling Point: NOT KNOWN

Melting Point: NOT KNOWN

Vapor Pressure (MM Hg/70 F): NOT KNOWN

Vapor Density (Air=1): NOT KNOWN

Specific Gravity: >1 (WATER=1)

Decomposition Temperature: NOT KNOWN

Evaporation Rate And Ref: <1 (BUTYL ACETATE=1)

Solubility In Water: PRACTICALLY INSOL Percent Volatiles By Volume: <32 Viscosity:

pH: N/K

Radioactivity:

Form (Radioactive Matl):

Magnetism (Milligauss):

Corrosion Rate (IPY): N/K

Autoignition Temperature:

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Fire and Explosion Hazard Data

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Flash Point: NOT APPLICABLE

Flash Point Method: N/K

Lower Explosive Limit: 0.17 OZ/FT3

Upper Explosive Limit: NOT KNOWN

Extinguishing Media: USE WATER SPRAY,CARBON DIOXIDE,DRY CHEMICAL.

Special Fire Fighting Proc: WEAR SELF-CONTAINED BREATHING APPARATUS (PRESSURE-DEMAND

MSHA/NIOSH APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.

Unusual Fire And Expl Hazrds: NOT KNOWN

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Reactivity Data

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Stability: YES

Cond To Avoid (Stability): AVOID TEMPERATURES ABOVE 220C,428F.

Materials To Avoid: AVOID CONTACT OF THE PACKET CONTENTS WITH OXIDIZING AGENTS,NITRIC

ACID.

Hazardous Decomp Products: THERMAL DECOMPOSITION MAY YIELD STYRENE MONOMER AND

DIVINYLBENZENE.

Hazardous Poly Occur: NO

Conditions To Avoid (Poly): WILL NOT OCCUR.

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Health Hazard Data

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LD50-LC50 Mixture: LD50 RABBIT DERMAL >5000 MG/KG (SEE SUP)

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: NO

Route Of Entry - Ingestion: YES

Health Haz Acute And Chronic: EYES: MAY CAUSE IRRITATION.

INHALATION: CAN CAUSE IRRITATION OF NOSE AND THROAT. INGESTION: PRODUCT CONSIDERED PRACTICALLY NON-TOXIC.

Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: NONE

Signs/Symptoms Of Overexp: EYES: PACKET CONTENTS CAN CAUSE SLIGHT IRRITATION. INGESTION: PACKET CONTENTS ARE CONSIDERED TO BE PRACTICALLY NON-TOXIC. INHALATION: INHALATION OF PACKET CONTENTS CAN CAUSE IRRITATION OF NOSE AND THROAT.

Med Cond Aggravated By Exp: NOT KNOWN.

Emergency/First Aid Proc: EYES: FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN IF IRRITATION PERSISTS. INGESTION: IF SWALLOWED, GIVE 2 GLASSES OF WATER TO DRINK. CONSULT A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. INHALATION: MOVE SUBJECT TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: APPROPRIATE PROTECTIVE EQUIPMENT MUST BE WORN WHEN HANDLING A SPILL OF THIS MATERIAL. COLLECT UNBROKEN PACKETS FOR REUSE. TRANSFER SPILLED MATERIAL TO SUITABLE CONTAINERS FOR DISPOSAL.

Neutralizing Agent: NOT KNOWN

Waste Disposal Method: DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. COORDINATE WITH SUPPORTING INSTALLATION AND/ OR MACOM ENVIRONMENTAL OFFICE PRIOR TO DISPOSAL (FPA). UNUSED RESIN MAY BE INCINERATED OR LANDFILLED.

Precautions-Handling/Storing: MAX RECOMMENDED STORAGE TEMP FOR PACKET CONTENTS IS 60C, 140F. STORE IN ACCORDANCE WITH FDA RECOMMENDED GOOD MANUFACTURING PRACTICES FOR MED DEVICES.

Other Precautions: NONE KNOWN.

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Control Measures

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Respiratory Protection: NONE REQUIRED IF AIRBORNE CONCENTRATIONS ARE MAINTAINED BELOW THE TWA/TLV'S. FOR DUST OR MIST UP TO 5 TIMES OF THE TWA/TLV'S, WEAR MSHA/NIOSH APPROVED (OR EQUIVALENT) DISPOSABLE HALF-MASK DUST/MIST RESPIRATOR.

Ventilation: NONE REQUIRED UNDER NORMAL OPERATING CONDITIONS. EMPLOYED VENT SYSTEM DEPENDENT ON USER'S SPECIFIC APPLICATION OF MATL.

Protective Gloves: NOT KNOWN.

Eye Protection: USE SAFETY GLASSES.

Other Protective Equipment: FACILITIES STORING OR UTILIZING MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY.

Work Hygienic Practices: NOT KNOWN.

Suppl. Safety & Health Data: THIS KIT CONTAINS 6 DECONTAMINATING PACKETS. EACH PACKET CONTAINS AN APPLICATOR PAD IMPREGNATED WITH A MINIMUM OF 2.8 G OF AMBERGARD XE-555 RESIN. SEE INGREDIENTS FOR THE RESIN COMPOSITION. PHYSICAL PROPERTIES ARE BASED ON THE CONTENT OF THE PACKET. LD50-LC50 MIX: LD50 RAT ORAL >5000 MG/KG.

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Transportation Data

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Transportation Action Code:

Transportation Focal Point: A
Trans Data Review Date: 93258
DOT PSN Code: ZZZ
DOT Symbol:
DOT Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
DOT Class: N/R
DOT ID Number: N/R
DOT Pack Group:
DOT Label: N/R
DOT/DoD Exemption Number:
IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
IMO Regulations Page Number: N/R
IMO UN Number: N/R
IMO UN Class: N/R
IMO Subsidiary Risk Label: N/R
IATA PSN Code: ZZZ
IATA UN ID Number: N/R
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
IATA UN Class: N/R
IATA Subsidiary Risk Class: N/R
IATA Label: N/R

AFI PSN Code: ZZZ
AFI Symbols:
AFI Prop. Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
AFI Class: N/R
AFI ID Number: N/R
AFI Pack Group:
AFI Label: N/R
AFI Special Prov:
AFI Basic Pac Ref:
MMAC Code:
N.O.S. Shipping Name:
Additional Trans Data: NOT REGULATED FOR SHIPPING

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Disposal Data

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Disposal Data Action Code:
Disposal Data Focal Point:
Disposal Data Review Date:
Rec # For This Disp Entry:
Tot Disp Entries Per NSN:
Landfill Ban Item:
Disposal Supplemental Data:
1st EPA Haz Wst Code New:
1st EPA Haz Wst Name New:
1st EPA Haz Wst Char New:
1st EPA Acute Hazard New:
2nd EPA Haz Wst Code New:
2nd EPA Haz Wst Name New:
2nd EPA Haz Wst Char New:
2nd EPA Acute Hazard New:
3rd EPA Haz Wst Code New:
3rd EPA Haz Wst Name New:
3rd EPA Haz Wst Char New:
3rd EPA Acute Hazard New:

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Label Data

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Label Required: YES

Technical Review Date: 06JAN94

Label Date: UNDATED

MFR Label Number: N/R

Label Status: D

Common Name: SKIN DECONTAMINATING KIT,M291-E

Chronic Hazard: NO

Signal Word: CAUTION!

Acute Health Hazard-None:

Acute Health Hazard-Slight: X

Acute Health Hazard-Moderate:

Acute Health Hazard-Severe:

Contact Hazard-None:

Contact Hazard-Slight: X

Contact Hazard-Moderate:

Contact Hazard-Severe:

Fire Hazard-None: X

Fire Hazard-Slight:

Fire Hazard-Moderate:

Fire Hazard-Severe:

Reactivity Hazard-None: X

Reactivity Hazard-Slight:

Reactivity Hazard-Moderate:

Reactivity Hazard-Severe:

Special Hazard Precautions: ACUTE:EYES:PACKET CONTENTS CAN CAUSE SLIGHT

IRRITATION.INGESTION:PRACTICALLY NON-TOXIC.INHALATION:PACKET CONTENTS CAN CAUSE

SLIGHT IRRITATION. CHRONIC:DELAYED HAZARDS NOT DETERMINED. FIRST AID:EYES:FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.CONSULT A PHYSICIAN IF IRRITATION PERSISTS.

INGESTION:IF SWALLOWED,GIVE 2 GLASSES OF WATER TO DRINK.CONSULT A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

INHALATION: MOVE SUBJECT TO FRESH AIR.IF BREATHING IS DIFFICULT,GIVE OXYGEN.

Protect Eye: X

Protect Skin:

Protect Respiratory:

Label Name: ROHM AND HAAS CO

Label Street: INDEPENDENCE MALL WEST

Label P.O. Box:

Label City: PHILADELPHIA

Label State: PA

Label Zip Code: 19105

Label Country: US

Label Emergency Number:

215-592-3000,800-424-9300(CHEMTREC)

Year Procured: N/K

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