

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : RMA 3000
 Product form : Mixture
 Product code : 30-00021, 30-00022, 30-00042, 30-00058, 30-00059, 30-00060, 30-00061, 30-00063, 30-00064, 30-00065, 30-00066, 30-00067

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Adhesive

1.3. Details of the supplier of the safety data sheet

RhinoTech
 2955 Lone Oak Circle
 Eagan, MN 55121
 651.686.5027

1.4. Emergency telephone number

Emergency number : ChemTel, Inc. 800-255-3924, International 813-248-0585

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

| <u>Hazard Code</u> | <u>Hazard Class</u> | <u>Hazard Category</u> |
|--------------------|---|------------------------|
| H315 | Skin corrosion/irritation | 2 |
| H319 | Serious eye damage/eye irritation | 2A |
| H335 | Specific target organ toxicity, single exposure (Respiratory Tract Irritation) | 3 |
| H336 | Specific target organ toxicity, single exposure (Narcotic Effect) | 3 |
| H351 | Carcinogenicity | 2 |
| H373 | Specific target organ toxicity, repeated exposure (oral: blood, liver / Inhalation: Central nervous system) | 2 |

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



Signal Word (GHS-US): **Warning**

Hazard Statements (GHS-US):

- H315: Causes skin irritation
- H319: Causes serious eye irritation
- H335: May cause respiratory irritation
- H336: May cause drowsiness or dizziness
- H351: Suspected of causing cancer
- H373: May cause damage to organs

Precautionary statements (GHS-US):

- P201: Obtain special instructions before use
- P202: Do not handle until all safety precautions have been read and understood
- P260: Do not breathe dust/fumes/gas/mist/vapors/spray
- P264: Wash thoroughly after handling

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P271: Use only outdoors or in a well-ventilated area
P280: Wear protective gloves/protective clothing/eye protection/face protection
P302+352: IF ON SKIN: Wash with soap and water
P321: Specific treatment (see SECTION 4)
P332+313: If skin irritation occurs: Get medical advice/attention
P362: Take off contaminated clothing and wash before reuse
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P337+313: If eye irritation persists get medical advice/attention
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312: Call a POISON CENTER or doctor/physician if you feel unwell
P308+313: IF exposed or concerned: Get medical advice/attention
P314: Get Medical advice/attention if you feel unwell
P403+233: Store in a well ventilated place. Keep container tightly closed
P405: Store locked up
P501: Dispose of contents/container in accordance with local, state and federal authorities.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | CAS # | % |
|--------------------------------------|-------------|---------|
| Dichloromethane (Methylene Chloride) | 75-09-2 | 80 - 85 |
| Polyester polymer | Proprietary | 15 – 20 |

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing Use artificial respiration and oxygen if needed. If irritation persists, seek medical attention.

First-aid measures after skin contact : IF ON SKIN: Immediately rinse with plenty of water (for at least 15 minutes). If irritation persists, seek medical attention.

First-aid measures after eye contact : IF IN EYES: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). If irritation persists, seek medical attention.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head below hips to prevent breathing vomit into lungs. Call physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Dichloromethane is metabolized in the body producing carbon monoxide which increases and sustains carboxyhemoglobin levels in the blood, reducing the oxygen-carrying capacity of the blood., Acts as a simple asphyxiant by displacing air., anesthetic effects, Difficulty in breathing, Headache, Dizziness, Prolonged or repeated contact with skin may cause:, defatting, Dermatitis, Contact with eyes can cause:, Redness, Blurred vision, Provokes tears., Effects due to ingestion may include:, Gastrointestinal discomfort, Central nervous system depression, Paresthesia., Drowsiness, Convulsions, Conjunctivitis., Pulmonary edema. Effects may be delayed., Irregular breathing., Stomach/intestinal disorders, Nausea, Vomiting, Increased liver enzymes., Weakness, Heavy or prolonged skin exposure may result in the absorption of harmful amounts of material., Abdominal pain. Stomach - Irregularities - Based on Human Evidence.

Symptoms/injuries after inhalation : See Main Symptoms paragraph in section 4.2. May cause headache, nausea and irritation of respiratory tract. May cause drowsiness or dizziness, Possible damage to the Central Nervous System

Symptoms/injuries after skin contact : See Symptoms/injuries in section 4.2. May cause skin irritation.

Symptoms/injuries after eye contact : See Symptoms/injuries in section 4.2. Causes serious eye irritation.

Symptoms/injuries after ingestion : See Symptoms/injuries in section 4.2. May cause gastrointestinal irritation, nausea, vomiting, and diarrhea if swallowed. Possible Blood and Liver damage.

Chronic symptoms : See Symptoms/injuries in section 4.2.

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4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide. Dry powder. Water spray.

5.2. Special hazards arising from the substance or mixture

Fire hazard : The product is not flammable.

Explosion hazard : Product is not explosive.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Do not dispose of fire-fighting water in the environment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. See Section 10 for hazardous decomposition materials and incompatible materials information,

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Approved supplied-air respirator, in case of emergency. Wear suitable protective clothing, gloves and eye or face protection. (See Section 8.)

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Prevent entry to sewers and public waters. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Soak up spills with inert materials as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Do not swallow. Do not enter confined spaces unless adequately ventilated. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. If respirators are necessary – only use supplied air respirators. Wear proper safety equipment including chemically resistant gloves and safety glasses or goggles. Vapors of this product are heavier than air and lethal concentrations of vapors can collect in low, confined and unventilated spaces. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container. Store under cover in a dry, clean, cool, well ventilated place away from sunlight. Do not handle or store near an open flame, heat, or sources of ignition. Keep container tightly closed when not in use. Do not store in: Zinc. Aluminum. Aluminum alloys. Plastic.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No OSHA and ACGIH PEL's or TLV's for the listed ingredients of this product unless stated below:

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| | | | |
|--|---|--|-----------|
| Dichloromethane (Methylene Chloride), CAS# 75-09-2 | | | |
| OSHA PEL (TWA) ppm - if units not stated | OSHA PEL (STEL) ppm - if units not stated | OSHA PEL (Ceiling) ppm - if units not stated | ACGIH-TLV |
| 25 ppm - see See 29 CFR 1910.1052 | Not Established | Not Established | 50 ppm |

| | |
|--|---|
| Component | Immediately Dangerous to Life / Health (IDLH) |
| Dichloromethane (Methylene Chloride), CAS# 75-09-2 | 2300 ppm |

8.2. Exposure controls

| | |
|-------------------------------|---|
| Personal protective equipment | : Face shield. Gloves. Protective clothing. Protective goggles. Respiratory protection. |
| Hand protection | : Chemical resistant gloves. Nitrile is poor, penetrates in 4 min. USE: PVA, North's Silver Shield or Ansell's Laminate Film. |
| Eye protection | : Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. |
| Skin and body protection | : Wear appropriate chemical resistant clothing. |
| Respiratory protection | : In case of inadequate ventilation wear respiratory protection. Respiratory protection requirements for methylene chloride are in 29 CFR 1910.1052(f). When concentrations are above the IDLH, or are unknown, or during spills and/or emergencies, use any supplied-air respirator that has a facepiece and is operated in a pressure demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive=pressure mode. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Appearance | : No data available |
| Color | : Amber |
| Odor | : Mildly sweet, Chloroform-like |
| Odor Threshold | : 200-300 ppm (causes olfactory fatigue) |
| pH | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : 104 F (40 C) |
| Flash point | : No data available |
| Self ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : 350 mmHg @ 20 C and 435 mmHG @ 25 C |
| Relative vapor density at 20 °C | : 2.9 |
| Relative density | : 1.31 – 1.32 @ 25 C |
| Solubility | : Complete solubility in water. |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

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10.3. Possibility of hazardous reactions

Avoid contact with incompatible substances and conditions due to generation of phosgene and other toxic and irritating substances.

10.4. Conditions to avoid

Heat, flames and sparks. Exposure to sunlight.

10.5. Incompatible materials

Alkali metals, Aluminum, Strong oxidizing agents, Bases, Amines, Magnesium, Strong acids and strong bases, Vinyl compounds

10.6. Hazardous decomposition products

Thermal decomposition generates : Hydrogen chloride, Chlorine, Phosgene, Oxide of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| Dichloromethane (Methylene Chloride), CAS# 75-09-2 | | |
|--|--------------------|---------------------|
| Oral LD50 rat | Dermal LD50 rabbit | Inhalation LC50 |
| > 2,000 mg/kg | No Data | 76,000 mg/m3 (4 hr) |

| | |
|--|--|
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Dichloromethane (Methylene chloride) CAS#75-09-2, IRAC Group 2B: Possibly carcinogenic to humans. Dichloromethane (Methylene chloride) CAS#75-09-2, NTP: Reasonably anticipated to be a human carcinogen. |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Central nervous system |
| Specific target organ toxicity (repeated exposure) | : Oral: blood, liver Inhalation: Central nervous system |
| Aspiration hazard | : Not classified |
| Symptoms/injuries after inhalation | : See Symptoms/injuries in section 4.2. May cause headache, nausea and irritation of respiratory tract. May cause drowsiness or dizziness, Possible damage to the Central Nervous System. |
| Symptoms/injuries after skin contact | : See Symptoms/injuries in section 4.2. May cause skin irritation. |
| Symptoms/injuries after eye contact | : See Symptoms/injuries in section 4.2. Causes serious eye irritation. |
| Symptoms/injuries after ingestion | : See Symptoms/injuries in section 4.2. May cause gastrointestinal irritation, nausea, vomiting, and diarrhea if swallowed. Possible Blood and Liver damage. |
| Chronic symptoms | : See Symptoms/injuries in section 4.2. |

SECTION 12: Ecological information

| | |
|-------------------------------------|---------|
| 12.1. Toxicity | No Data |
| 12.2. Persistence and degradability | No Data |
| 12.3. Bioaccumulative potential | No Data |
| 12.4. Mobility in soil | No Data |
| 12.5. Other adverse effects | No Data |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|-------------------------|---|
| Waste treatment methods | : Do not discharge to public wastewater systems. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. RCRA code: U080 |
|-------------------------|---|

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Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

SECTION 14: Transport information

14.1. UN number, proper shipping name, class and packaging group.:

Domestic Ground Shipments

UN1593, Dichloromethane, 6.1, III

14.2. Additional information

SECTION 15: Regulatory information

15.1. US Federal regulations

TSCA Inventory: The components of this product are listed.

SARA Section 311/312, Hazard Category (40CFR 370.2): Acute and Chronic health hazard.

SARA Section 313, Toxic Release Reporting (40CFR Part 372): Methylene chloride, CAS #75-09-2.

SARA Section 302, EHS Emergency Planning (40CFR Part 355): No listed substance known over 1.0%.

SARA Section 304, EHS Release Reporting (40CFR Part 355): No listed substance known over 1.0%.

CERCLA Section 102-103 HS Release Reporting (40 CFR par302-102a): Methylene chloride, CAS #75-09-2, RQ 1000 lbs.

15.2. International regulations

No Data

15.2.2. National regulations

No Data

15.3. US State regulations

California Prop. 65:

Dichloromethane (Methylene chloride), CAS #75-09-2, Cancer

SECTION 16: Other information

Other information :
: None.

NFPA health hazard : 2

NFPA fire hazard : 1

NFPA reactivity : 0

HMIS III Rating

Health : 2

Flammability : 1

Physical : 0

Personal Protection :

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