# SAFETY DATA SHEET

**Revision Date:** *18-Mar-2020* **Revision Number:** *2*

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** **BENJAMIN MOORE COROTECH RAPID DRY ALKYD ENAMEL ALUMINUM**

**Product Code** **V220-78FR**

**Alternate Product Code** A22078
**Product Class** SOLVENT THINNED PAINT
**Color** Aluminum
**Recommended use** Industrial paint
**Restrictions on use** No information available

**Manufactured For**
Benjamin Moore & Co., Limited
8775 Keele Street
Concord ON L4K 2N1
Phone: 1-800-361-5898
corotechcoatings.ca

**Manufacturer**
Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 1-866-708-9180
corotechcoatings.com

**Emergency Telephone**
CANUTEC: 613-996-6666

## 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous by the Hazardous Products Regulations (HPR: SOR/2015-17)

| | |
|---|---|
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2A |
| Carcinogenicity | Category 2 |
| Specific target organ toxicity (repeated exposure) | Category 1 |
| Aspiration toxicity | Category 1 |
| Flammable liquids | Category 3 |
| Physical hazard not otherwise classified | Category 1 |

**Label elements**

**Danger**

**Hazard statements**
Causes skin irritation
Causes serious eye irritation
Suspected of causing cancer
Causes damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Flammable liquid and vapor
Risk of spontaneous combustion

**Appearance** liquid **Odor** solvent

**Precautionary Statements - Prevention**
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Wear eye/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Do not eat, drink or smoke when using this product
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Immediately after use, place rags, steel wool or waste used with this product in a sealed water-filled metal container or lay flat to dry.

**Precautionary Statements - Response**
IF exposed or concerned: Get medical advice/attention
**Eyes**
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**
If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
**Ingestion**
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting
**Fire**

In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**
Store locked up
Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant
Materials such as rags used with this product may begin to burn by themselves. After use, put rags in water or lay flat to dry, then discard.

**Other information**
No information available

## 3. COMPOSITION INFORMATION ON COMPONENTS

| Chemical name | CAS No. | Weight-% | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|---|---|---|---|---|
| Solvent naphtha, petroleum, medium aliphatic | 64742-88-7 | 10 - 30% | - | - |
| Stoddard solvent | 8052-41-3 | 7 - 13% | - | - |
| VM&P naphtha | 64742-89-8 | 7 - 13% | - | - |
| Aluminum | 7429-90-5 | 5 - 10% | - | - |
| Distillates, petroleum, hydrotreated light | 64742-47-8 | 3 - 7% | - | - |
| Petroleum ether | 8032-32-4 | 1 - 5% | - | - |
| Octane | 111-65-9 | 0.5 - 1% | - | - |
| Heptane | 142-82-5 | 0.5 - 1% | - | - |
| Ethyl benzene | 100-41-4 | 0.1 - 0.25% | - | - |

**Confidential Business Information note** *The exact percentage (concentration) of composition has been withheld as a trade secret

## 4. FIRST AID MEASURES

**General Advice** If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

**Eye Contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

**Skin Contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

**Inhalation** Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration. Call a physician immediately.

| | |
|---|---|
| **Ingestion** | Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician. |
| **Protection Of First-Aiders** | Use personal protective equipment. |
| **Most Important Symptoms/Effects** | No information available. |
| **Notes To Physician** | Treat symptomatically. |

## 5. FIRE-FIGHTING MEASURES

| | |
|---|---|
| **Flammable Properties** | Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause flash fire. |
| **Suitable Extinguishing Media** | Foam, dry powder or water. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| **Protective equipment and precautions for firefighters** | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |
| **Hazardous combustion products** | Burning may result in carbon dioxide, carbon monoxide and other combustion products of varying composition which may be toxic and/or irritating. |
| **Specific Hazards Arising From The Chemical** | Flammable. Flash back possible over considerable distance. Keep product and empty container away from heat and sources of ignition. Closed containers may rupture if exposed to fire or extreme heat. Thermal decomposition can lead to release of irritating gases and vapors. |
| **Sensitivity to mechanical impact** | No |
| **Sensitivity to static discharge** | Yes |
| **Flash Point Data** | |
| **Flash point (°F)** | 81 |
| **Flash Point (°C)** | 27 |
| **Method** | PMCC |
| **Flammability Limits In Air** | |
| **Lower flammability limit:** | Not available |
| **Upper flammability limit:** | Not available |

**NFPA** **Health:** 1 **Flammability:** 3 **Instability:** 0 **Special:** Not Applicable

**NFPA Legend**
0 - Not Hazardous
1 - Slightly
2 - Moderate
3 - High
4 - Severe

*The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.*

*Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.*

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**

Remove all sources of ignition. Take precautions to prevent flashback. Ground and bond all containers and handling equipment. Take precautionary measures against static discharges. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

**Other Information**

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

**Environmental precautions**

See Section 12 for additional Ecological Information.

**Methods for Cleaning Up**

Dam up. Soak up with inert absorbent material. Use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

**Handling**

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in ventilated areas. Prevent vapor build-up by providing adequate ventilation during and after use.

Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Ignition and/or flash back may occur.

**Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers. Keep out of the reach

of children.

**DANGER** - Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container.

**Incompatible Materials**

Incompatible with strong acids and bases and strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits**

| Chemical name | ACGIH TLV | Alberta | British Columbia | Ontario | Quebec |
|---|---|---|---|---|---|
| Stoddard solvent | TWA: 100 ppm | 100 ppm - TWA<br>572 mg/m³ - TWA | 290 mg/m³ - TWA<br>580 mg/m³ - STEL | 525 mg/m³ - TWA | 100 ppm - TWAEV<br>525 mg/m³ - TWAEV |
| Aluminum | TWA: 1 mg/m³ respirable particulate matter | 10 mg/m³ - TWA 5 mg/m³ - TWA | 1.0 mg/m³ - TWA | 1 mg/m³ - TWA | 10 mg/m³ - TWAEV 5 mg/m³ - TWAEV |
| Distillates, petroleum, hydrotreated light | N/E | N/E | 200 mg/m³ - TWA<br>Skin absorption can contribute to overall exposure. | N/E | N/E |
| Petroleum ether | N/E | 300 ppm - TWA<br>1400 mg/m³ - TWA | - | N/E | 300 ppm - TWAEV<br>1370 mg/m³ - TWAEV |
| Octane | TWA: 300 ppm | 300 ppm - TWA<br>1400 mg/m³ - TWA | 300 ppm - TWA | 300 ppm - TWA | 300 ppm - TWAEV<br>1400 mg/m³ - TWAEV<br>375 ppm - STEV<br>1750 mg/m³ - STEV |
| Heptane | STEL: 500 ppm<br>TWA: 400 ppm | 400 ppm - TWA<br>1640 mg/m³ - TWA<br>500 ppm - STEL<br>2050 mg/m³ - STEL | 400 ppm - TWA<br>500 ppm - STEL | 400 ppm - TWA<br>500 ppm - STEL | 400 ppm - TWAEV<br>1640 mg/m³ - TWAEV<br>500 ppm - STEV<br>2050 mg/m³ - STEV |
| Ethyl benzene | TWA: 20 ppm | 100 ppm - TWA<br>434 mg/m³ - TWA<br>125 ppm - STEL<br>543 mg/m³ - STEL | 20 ppm - TWA | 20 ppm - TWA | 100 ppm - TWAEV<br>434 mg/m³ - TWAEV<br>125 ppm - STEV<br>543 mg/m³ - STEV |

**Legend**
ACGIH - American Conference of Governmental Industrial Hygienists
Alberta - Alberta Occupational Exposure Limits
British Columbia - British Columbia Occupational Exposure Limits
Ontario - Ontario Occupational Exposure Limits
Quebec - Quebec Occupational Exposure Limits
N/E - Not established

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment**

**Eye/Face Protection**

Safety glasses with side-shields. If splashes are likely to occur, wear: Tightly fitting safety goggles

**Skin Protection**

Protective gloves and impervious clothing.

**Respiratory Protection**

Use only with adequate ventilation. In operations where exposure limits are exceeded, use a NIOSH approved respirator that has been selected by a technically qualified person for the specific work conditions. When spraying the

product or applying in confined areas, wear a NIOSH approved respirator specified for paint spray or organic vapors.

**Hygiene Measures** Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Appearance** | liquid |
| **Odor** | solvent |
| **Odor Threshold** | No information available |
| **Density (lbs/gal)** | 7.75 - 7.85 |
| **Specific Gravity** | 0.93 - 0.95 |
| **pH** | No information available |
| **Viscosity (cps)** | No information available |
| **Solubility(ies)** | No information available |
| **Water solubility** | No information available |
| **Evaporation Rate** | No information available |
| **Vapor pressure** | No information available |
| **Vapor density** | No information available |
| **Wt. % Solids** | 45 - 55 |
| **Vol. % Solids** | 30 - 40 |
| **Wt. % Volatiles** | 45 - 55 |
| **Vol. % Volatiles** | 60 - 70 |
| **VOC Regulatory Limit (g/L)** | < 575 |
| **Boiling Point (°F)** | 241 |
| **Boiling Point (°C)** | 116 |
| **Freezing point (°F)** | No information available |
| **Freezing Point (°C)** | No information available |
| **Flash point (°F)** | 81 |
| **Flash Point (°C)** | 27 |
| **Method** | PMCC |
| **Flammability (solid, gas)** | Not applicable |
| **Upper flammability limit:** | Not applicable |
| **Lower flammability limit:** | Not applicable |
| **Autoignition Temperature (°F)** | No information available |
| **Autoignition Temperature (°C)** | No information available |
| **Decomposition Temperature (°F)** | No information available |
| **Decomposition Temperature (°C)** | No information available |
| **Partition coefficient** | No information available |

## 10. STABILITY AND REACTIVITY

**Reactivity** Not Applicable

**Chemical Stability** Stable under normal conditions. Hazardous polymerisation does not occur.

**Conditions to avoid** Keep away from open flames, hot surfaces, static electricity and sources of ignition. Sparks. Elevated

temperature.

**Incompatible Materials** Incompatible with strong acids and bases and strong oxidizing agents.

**Hazardous Decomposition Products** Thermal decomposition can lead to release of irritating gases and vapors.

**Possibility of hazardous reactions** None under normal conditions of use.

## 11. TOXICOLOGICAL INFORMATION

**Product Information**
**Information on likely routes of exposure**

**Principal Routes of Exposure** Eye contact, skin contact and inhalation.

**Acute Toxicity**
**Product Information** Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Eye contact** Contact with eyes may cause irritation.
**Skin contact** May cause skin irritation and/or dermatitis. Prolonged skin contact may defat the skin and produce dermatitis.
**Inhalation** Harmful by inhalation. High vapor / aerosol concentrations are irritating to the eyes, nose, throat and lungs and may cause headaches, dizziness, drowsiness, unconsciousness, and other central nervous system effects.
**Ingestion** Harmful if swallowed. Ingestion may cause irritation to mucous membranes. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.
**Sensitization** No information available.
**Neurological Effects** No information available.
**Mutagenic Effects** No information available.
**Reproductive Effects** No information available.
**Developmental Effects** No information available.
**Target organ effects** No information available.
**STOT - single exposure** May cause disorder and damage to the Respiratory system Central nervous system
**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure if inhaled May cause disorder and damage to the Central nervous system
**Other adverse effects** No information available.

**Aspiration Hazard**

May be harmful if swallowed and enters airways. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

**Numerical measures of toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document**

**ATEmix (oral)** 45940 mg/kg
**ATEmix (dermal)** 7642 mg/kg
**ATEmix (inhalation-dust/mist)** 121.5 mg/L
**ATEmix (inhalation-vapor)** 28.2 mg/L

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Solvent naphtha, petroleum, medium aliphatic 64742-88-7 | > 25 mL/kg ( Rat ) | > 3000 mg/kg ( Rabbit ) | - |
| VM&P naphtha 64742-89-8 | - | = 3000 mg/kg ( Rabbit ) | - |
| Distillates, petroleum, hydrotreated light 64742-47-8 | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | > 5.2 mg/L ( Rat ) 4 h |
| Petroleum ether 8032-32-4 | - | - | = 3400 ppm ( Rat ) 4 h |
| Octane 111-65-9 | - | - | > 23.36 mg/L ( Rat ) 4 h = 118 g/m³ ( Rat ) 4 h = 25260 ppm ( Rat ) 4 h |
| Heptane 142-82-5 | - | = 3000 mg/kg ( Rabbit ) | = 103 g/m³ ( Rat ) 4 h |
| Ethyl benzene 100-41-4 | = 3500 mg/kg ( Rat ) | = 15400 mg/kg ( Rabbit ) | = 17.4 mg/L ( Rat ) 4 h |

**Chronic Toxicity**

**Carcinogenicity**
*The information below indicates whether each agency has listed any ingredient as a carcinogen:.*

| Chemical name | IARC | NTP |
|---|---|---|
| Ethyl benzene | 2B - Possible Human Carcinogen | |

**Legend**
IARC - International Agency for Research on Cancer
NTP - National Toxicity Program
OSHA - Occupational Safety & Health Administration

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity Effects**
The environmental impact of this product has not been fully investigated.

**Product Information**

**Acute Toxicity to Fish**

No information available

**Acute Toxicity to Aquatic Invertebrates**
No information available

**Acute Toxicity to Aquatic Plants**
No information available

**Persistence / Degradability**
No information available.

**Bioaccumulation**
There is no data for this product.

**Mobility in Environmental Media**
No information available.

**Ozone**
No information available

## Component Information

**Acute Toxicity to Fish**

Ethyl benzene
LC50: 12.1 mg/L (Fathead Minnow - 96 hr.)

**Acute Toxicity to Aquatic Invertebrates**

Ethyl benzene
EC50: 1.8 mg/L (Daphnia magna - 48 hr.)

**Acute Toxicity to Aquatic Plants**

Ethyl benzene
EC50: 4.6 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

## 13. DISPOSAL CONSIDERATIONS

| | |
|---|---|
| **Waste Disposal Method** | Dispose of in accordance with federal, state, provincial, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options. |
| **Empty Container Warning** | Emptied containers may retain product residue. Follow label warnings even after container is emptied. Residual vapors may explode on ignition. |

## 14. TRANSPORT INFORMATION

**TDG**

| | |
|---|---|
| **Proper Shipping Name** | PAINT |
| **Hazard class** | 3 |
| **UN-No.** | UN1263 |
| **Packing Group** | III |
| **Description** | UN1263, PAINT, 3, III |

**ICAO / IATA** Contact the preparer for further information.

**IMDG / IMO** Contact the preparer for further information.

## 15. REGULATORY INFORMATION

### International Inventories

**TSCA: United States** Yes - All components are listed or exempt.
**DSL: Canada** No - Not all of the components are listed.
One or more component is listed on NDSL.

### National Pollutant Release Inventory (NPRI)

**NPRI Parts 1- 4**
This product contains the following Parts 1-4 NPRI chemicals:

| Chemical name | CAS No. | Weight-% | NPRI Parts 1- 4 |
|---|---|---|---|
| Aluminum | 7429-90-5 | 5 - 10% | Listed |
| Ethyl benzene | 100-41-4 | 0.1 - 0.25% | Listed |

**NPRI Part 5**
This product contains the following NPRI Part 5 Chemicals:

| Chemical name | CAS No. | Weight-% | NPRI Part 5 |
|---|---|---|---|
| Solvent naphtha, petroleum, medium aliphatic | 64742-88-7 | 10 - 30% | Listed |
| Stoddard solvent | 8052-41-3 | 7 - 13% | Listed |
| VM&P naphtha | 64742-89-8 | 7 - 13% | Listed |
| Distillates, petroleum, hydrotreated light | 64742-47-8 | 3 - 7% | Listed |
| Petroleum ether | 8032-32-4 | 1 - 5% | Listed |

**WHMIS Regulatory Status**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

## 16. OTHER INFORMATION

**HMIS** - **Health:** 1* **Flammability:** 3 **Reactivity:** 0 **PPE:** -

**HMIS Legend**
0 - Minimal Hazard
1 - Slight Hazard
2 - Moderate Hazard
3 - Serious Hazard
4 - Severe Hazard
* - Chronic Hazard
X - Consult your supervisor or S.O.P. for "Special" handling instructions.
*Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.*

*Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.*

**WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by logging onto Health Canada at http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked_questions-questions_posees-eng.php.

**Prepared By**
Product Stewardship Department
Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
800-225-5554

**Revision Date:** 18-Mar-2020
**Reason for revision** Not available

**Disclaimer**
**The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.**

**End of Safety Data Sheet**