



Revision Date: 05-Jul-2016 Revision Number: 1

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ALIPHATIC ACRYLIC URETHANE SEMI-GLOSS CLEAR BASE

Product Code V510-88FR

Alternate Product Code A51088

Product Class SOLVENT THINNED PAINT

**Color** Clear

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: 800-225-5554 corotechcoatings.com **Emergency Telephone Number(s)** 

CANUTEC: 613-996-6666

## 2. HAZARDS IDENTIFICATION

#### Classification

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

Skin sensitization	Category 1A
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 2

#### Label elements

Danger

Hazard statements

May cause an allergic skin reaction

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Suspected of causing cancer

May cause drowsiness or dizziness

May cause damage to organs through prolonged or repeated exposure

Highly flammable liquid and vapor



Appearance liquid Odor acrylate

### **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

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Do not breathe dust/fume/mist/vapors/spray

Use only outdoors or in a well-ventilated area

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/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

#### **Precautionary Statements - Response**

If exposed or concerned get medical attention

#### Skin

If skin irritation or rash occurs get medical attention

Wash contaminated clothing before reuse

If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water

#### Inhalation

If inhaled remove victim to fresh air and keep at rest in a position comfortable for breathing

#### **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 container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

No information available

### Other hazards

**IMPORTANT:** Designed to be mixed with other components. Mixture will have hazards of all components. Before opening packages, read all warning labels. Follow all precautions.

**CAUTION:** All floor coatings may become slippery when wet. Where non-skid characteristics are desired, a small amount of clean sand may be added. Stir often during application.

#### 3. COMPOSITION INFORMATION ON COMPONENTS

Chemical Name	CAS-No	Weight % (max)
n-Butyl acetate	123-86-4	10 - 30%
t-Butyl acetate	540-88-5	7 - 13%
2-Pentanone, 4-methyl-	108-10-1	1 - 5%
Xylene	1330-20-7	1 - 5%
Ethyl benzene	100-41-4	1 - 5%
Poly(oxy-1,2-ethanediyl),	104810-48-2	0.1 - 0.25%
.alpha[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimeth		
ylethyl)-4-hydroxyphenyl]-1-oxopropyl]omegah		
ydroxy-		
Decanedioic acid,	41556-26-7	0.1 - 0.25%
bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester		
Poly(oxy-1,2-ethanediyl),	104810-47-1	0.1 - 0.25%
.alpha[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimeth		
ylethyl)-4-hydroxyphenyl]-1-oxopropyl]omega[		
3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-		
4-hydroxyphenyl]-1-oxoprop		

#### 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

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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. Wash clothing before reuse. Destroy contaminated articles such as shoes.

**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

May cause allergic skin reaction.

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.

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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)

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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.

Flammable. Flash back possible over considerable **Specific Hazards Arising From The Chemical** 

> 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** Nο

Sensitivity To Static Discharge Yes

Flash Point Data

40.0 Flash Point (°F) Flash Point (°C) 4.4 **Flash Point Method PMCC** 

Flammability Limits In Air

**Lower Explosion Limit** Not available **Upper Explosion Limit** Not available

NFPA\_ Health: 2 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 Clean-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.

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## 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.

**Incompatible Materials** 

Incompatible with strong acids and bases and strong oxidizing agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Exposure Limits**

No exposure limits have been established for this product.

Chemical Name	ACGIH	Alberta	British Columbia	Ontario	Quebec
n-Butyl acetate	150 ppm - TWA	150 ppm - TWA	20 ppm - TWA	150 ppm - TWA	150 ppm - TWAEV
	200 ppm - STEL	713 mg/m <sup>3</sup> - TWA		200 ppm - STEL	713 mg/m <sup>3</sup> - TWAEV
		200 ppm - STEL			200 ppm - STEV
		950 mg/m <sup>3</sup> - STEL			950 mg/m <sup>3</sup> - STEV
t-Butyl acetate	200 ppm - TWA	200 ppm - TWA	200 ppm - TWA	200 ppm - TWA	200 ppm - TWAEV
		950 mg/m <sup>3</sup> - TWA			950 mg/m <sup>3</sup> - TWAEV
2-Pentanone, 4-methyl-	20 ppm - TWA	50 ppm - TWA	20 ppm - TWA	20 ppm - TWA	50 ppm - TWAEV
	75 ppm - STEL	205 mg/m <sup>3</sup> - TWA	75 ppm - STEL	75 ppm - STEL	205 mg/m <sup>3</sup> - TWAEV
		75 ppm - STEL			75 ppm - STEV
		307 mg/m <sup>3</sup> - STEL			307 mg/m <sup>3</sup> - STEV
Xylene	100 ppm - TWA	100 ppm - TWA	100 ppm - TWA	100 ppm - TWA	100 ppm - TWAEV
	150 ppm - STEL	434 mg/m <sup>3</sup> - TWA	150 ppm - STEL	150 ppm - STEL	434 mg/m³ - TWAEV
		150 ppm - STEL			150 ppm - STEV
		651 mg/m <sup>3</sup> - STEL			651 mg/m <sup>3</sup> - STEV
Ethyl benzene	20 ppm - TWA	100 ppm - TWA	20 ppm - TWA	20 ppm - TWA	100 ppm - TWAEV
		434 mg/m <sup>3</sup> - TWA			434 mg/m <sup>3</sup> - TWAEV
		125 ppm - STEL			125 ppm - STEV
		543 mg/m <sup>3</sup> - STEL			543 mg/m <sup>3</sup> - STEV

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

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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.

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#### **Personal Protective Equipment**

Eye/Face Protection Skin Protection

**Respiratory Protection** 

Safety glasses with side-shields.

Protective gloves and impervious clothing.

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

AppearanceliquidOdoracrylate

Odor Threshold No information available

 Density (lbs/gal)
 8.3 - 8.6

 Specific Gravity
 0.99 - 1.03

pHNo information availableViscosity (cps)No information availableSolubilityNo information availableWater SolubilityNo information availableEvaporation RateNo information available

Vapor Pressure

Vapor Density

No information available
No information available
No information available

 Wt. % Solids
 50 - 60

 Vol. % Solids
 45 - 55

 Wt. % Volatiles
 40 - 50

 Vol. % Volatiles
 45 - 55

 VOC Regulatory Limit (g/L)
 <340</td>

Boiling Point (°C)

Boiling Point (°C)

98

Freezing Point (°F)

Freezing Point (°C)

No information available

No information available

Flash Point (°F) 40.0
Flash Point (°C) 4.4
Flash Point Method PMCC

Flammability (solid, gas)
Upper Explosion Limit
Not applicable
Not applicable
Not applicable

Autoignition Temperature (°F)No information availableAutoignition Temperature (°C)No information availableDecomposition Temperature (°F)No information availableDecomposition Temperature (°C)No information availablePartition Coefficient (n-octanol/water)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

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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.

Information on toxicological effects

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: May cause an allergic skin reaction.

Neurological EffectsNo information available.Mutagenic EffectsNo information available.Reproductive EffectsNo information available.Developmental EffectsNo information available.Target Organ EffectsNo information available.

STOT - single exposure May cause disorder and damage to the. Respiratory

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system. Central nervous system (CNS). STOT - repeated exposure

Causes damage to organs through prolonged or repeated

severe pulmonary injury, possibly progressing to death.

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exposure.

No information available. Other adverse effects

May be harmful if swallowed and enters airways. Small **Aspiration Hazard** amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to

## Numerical measures of toxicity

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

ATEmix (oral) 9968 mg/kg ATEmix (dermal) 8457 mg/kg ATEmix (inhalation-dust/mist) 8.9 mg/L

#### Component

n-Butyl acetate

LD50 Oral: 10768 mg/kg (Rat)

LD50 Dermal: > 17600 mg/kg (Rabbit) LC50 Inhalation (Vapor): ppm (Rat, 4 hr.) Sensitization: non-sensitizing (guinea pig)

2-Pentanone, 4-methyl-

LD50 Oral: 2080-4600 mg/kg (Rat) LC50 Inhalation (Vapor): 100000 mg/m<sup>3</sup>

**Xylene** 

LD50 Oral: 4300 mg/kg (Rat)

LD50 Dermal: > 1700 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.)

Ethyl benzene

LD50 Oral: mg/kg (Rat)

LD50 Dermal: > mg/kg (Rabbit)

LC50 Inhalation (Vapor): mg/m<sup>3</sup> (Rat, 2 hr.)

Poly(oxy-1,2-ethanediyl),

.alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-

Sensitization:

May cause sensitization by skin contact

Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester

Sensitization:

May cause sensitization by skin contact

Poly(oxy-1,2-ethanediyl),

.alpha.-[3-[3-(2H-benzotriazol-2-vl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriaz ol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxoprop

Sensitization:

May cause sensitization by skin contact

#### **Chronic Toxicity**

## Carcinogenicity

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

Chemical Name	IARC	NTP
	2B - Possible Human Carcinogen	
2-Pentanone, 4-methyl-		
	2B - Possible Human Carcinogen	

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Ethyl benzene

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 / Accumulation**

No information available.

#### **Mobility in Environmental Media**

No information available.

#### **Ozone**

No information available

#### Component

#### **Acute Toxicity to Fish**

n-Butyl acetate

LC50: 18 mg/L (Fathead Minnow - 96 hr.)

Xylene

LC50: 13.5 mg/L (Rainbow Trout - 96 hr.)

Ethyl benzene

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

## **Acute Toxicity to Aquatic Invertebrates**

n-Butyl acetate

EC50: 72.8 mg/L (Daphnia magna - 48 hr.)

Ethyl benzene

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

#### **Acute Toxicity to Aquatic Plants**

#### n-Butyl acetate

EC50: 674.7 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

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

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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

**Description** UN1263, Paint, 3, II

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.

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 % (max)	NPRI Parts 1- 4
n-Butyl acetate	123-86-4	10 - 30%	Listed
t-Butyl acetate	540-88-5	7 - 13%	Listed
2-Pentanone, 4-methyl-	108-10-1	1 - 5%	Listed
Xylene	1330-20-7	1 - 5%	Listed
Ethyl benzene	100-41-4	1 - 5%	Listed

#### **NPRI Part 5**

This product contains the following NPRI Part 5 Chemicals:

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Chemical Name	CAS-No	Weight % (max)	NPRI Part 5
n-Butyl acetate	123-86-4	10 - 30%	Listed
2-Pentanone, 4-methyl-	108-10-1	1 - 5%	Listed
Xylene	1330-20-7	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: 2\* 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 @

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

855-724-6802

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#### **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.