

SAFETY DATA SHEET



Issued Date: June 1, 2015

Revision Date: June 1, 2015

SECTION I PRODUCT AND COMPANY IDENTIFICATION

Product Identifiers

Product Name: Moldpac Acrylic Powder Plain Pink
Product Code: RP__02

Recommended Use of the substance or mixture and Restrictions on Use

Industrial Use Only

Details of the Supplier of the Safety Data Sheet

Supplier Name:

Yates Motloid

Supplier Address

300 N. Oakley Blvd.

Chicago, IL 60612

Website: www.yates-motloid.com

E-mail: sales@yates-motloid.com

Emergency Telephone Numbers

Company Phone Number: (312) 226-2473 (During Business Hours, 8:00am - 4:00pm CST)

Emergency Telephone: INFOTRAC: 1-800-535-5053 (Outside U.S. 1-352-323-3500)

SECTION II HAZARDS IDENTIFICATION

Classification of the substance or mixture

Hazard Class - Physical, Health, Environmental

Eye Damage/Irritation

Reproductive Toxicity

Aquatic Toxicity

Category

2B

2

A3

OSHA Defined Hazards

Combustible dust, may form combustible dust concentrations in air, explosion hazard

Label Elements - Pictograms, Signal Word, Hazard Statements, Precautionary Statements, & Supplemental Information



Signal Word

Warning

Hazards Statements

H320 Causes eye irritation
H361 Suspected of damaging
Fertility or the unborn child
H402 Harmful to aquatic life

Precautionary Statements - Prevention, Response, & Disposal

P201 Obtain special instructions before use
P202 Do not handle until all safety precautions
have been read and understood
P240 Ground and bond container and receiving
equipment
P264 Wash hands and exposed skin thoroughly after
handling
P281 Wear protective gloves/protective clothing/eye
protection/face protection

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P305+P351 +P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313 P337+P313	IF exposed or concerned: Get medical advice/attention Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container to an authorized disposal facility

SECTION III COMPOSITION ON INGREDIENTS

Chemical Name	Cas No.	Weight-%	GHS Ratings
Polymethyl Methacrylate	9011-14-7	.	Eye Damage/Irritation 2B (H320)
Diethyl Phthalate	84-66-2	.	Eye Damage/Irritation 2B (H320) Reproductive Toxicity 2 (H361) Aquatic Toxicity A3 (H402)

SECTION IV FIRST AID MEASURES

General Advice

Provide the SDS to medical personnel for treatment.

Inhalation:

Remove victim to fresh air. Seek immediate medical attention.

Eye Contact:

If product gets in the eyes, flush with lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.

Skin Contact:

Rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.

Clothing:

Remove contaminated clothing, wash thoroughly before reuse.

Ingestion:

If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.

SECTION V FIRE-FIGHTING MEASURE

Suitable Extinguishing Media

Water, Chemical (alcohol-resistant) foam, dry chemical, or carbon dioxide.

Unsuitable Extinguishing Media

Water may not be effective in extinguishing this fire.

Specific Hazards Arising from the Chemical

Polymers are combustible dusts, care should be taken to avoid creating explosive concentrations in the air. Follow grounding and bonding procedures.

Special Fire Fighting Procedures:

Avoid extinguishing methods, which may generate dust clouds. Water stream can disperse dust into air producing a fire hazard and possible explosion hazard if exposed to ignition source. Firefighters should wear self-contained breathing apparatus.

Protective Equipment and Precautions for Firefighters

Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust. Polymers are sensitive to static discharge, follow grounding and bonding procedures. Polymers are not sensitive to mechanical impacts.

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SECTION VI ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Before cleaning any spill or leak, individuals must wear appropriate Personal Protective Equipment that is specified in section 8. Keep airborne particulates at a minimum when cleaning up spills. Deny entry to all unprotected individuals. Remove any contaminated clothing and wash thoroughly before reuse.

Environmental Precautions

Extinguish all ignition sources. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802

Methods and Material for Containment and Cleaning Up

Methods for Containment

Prevent further leakage or spillage if safe to do so. Dike and contain spill with inert material (e.g. sand or earth). May contaminate water supply.

Methods for Cleaning Up

Maximize ventilation (open doors and windows) and secure all sources of ignition. Use good, local ventilation with a minimum capture velocity of 100 ft/min (30m/min) at point of product release. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap. Not a RCRA Hazardous waste.

SECTION VII HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling

Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping. Avoid prolonged contact with the product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions

Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. The temperature should remain at or under 72°F (22°C) at all times. Storing at above recommended temperature will cause product performance issues. Store in accordance with National Fire Protection Association recommendations. Observe all label precautions until the container is cleaned, reconditioned, or destroyed.

Incompatible Materials

Strong oxidizers, strong oxidizing agents.

SECTION VIII EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Polymethyl Methacrylate 9011-14-7			
Diethyl Phthalate 84-66-2		5 mg/m ³ TWA	NIOSH: 5 mg/m ³ TWA

Engineering Controls

Use local explosion-proof ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition for details.

Personal Protective Equipment (PPE)

Respiratory Protection

A respirator should be worn whenever workplace conditions warrant use of a respirator. If dust conditions are present, a N95 respirator dust mask is required. None required if airborne concentrations are maintained below any exposure limit that may be

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listed above. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other appropriate governing standard.

Eye/Face Protection

Wear safety glasses, chemical goggles when splashing is possible, when dealing with this material. If necessary, refer to U.S. OSHA 29 CFR §1910.133 or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

Skin and Body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full Contact:

Material: Nitrile Rubber

Minimum Layer Thickness: 0.4 mm

Break Through Time: 480 min.

Splash Contact:

Material: Nitrile Rubber

Minimum Layer Thickness: 0.11 mm

Break Through Time: 120 min.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. An eyewash station and a safety shower are recommended. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Wash hands thoroughly before eating, drinking, or smoking.

SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pink

Odor: Faint

Flammable Limit (Air Volume%, 0% Lower/Upper): 0%

Evaporation Rate: No Data Available

Specific Gravity: 0

Physical State: Powder

Flash Point: 579° F, 304° C

Autoignition Temperature: -

Boiling Range (low-high): 295°C

SECTION X STABILITY AND REACTIVITY

Material Stability

Stable

Incompatible Materials

Strong Oxidizers

Hazardous Decomposition Products

Methacrylate Monomer and Oxides of Carbon when burned

Possibility of Hazardous Reactions

Hazardous polymerization will not occur

SECTION XI TOXICOLOGICAL INFORMATION

Mixture Toxicity

Component Toxicity

Routes of Exposure

Inhalation

Eye Contact

Target Organs

Eyes

Central Nervous System

Reproductive System

Skin

Peripheral Nervous System

Respiratory System

Effects of Overexposure

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Product Components Listed as Carcinogenic

<u>CAS Number</u>	<u>Description</u>	<u>%Weight</u>	<u>Carcinogen Rating</u>
None			No data available

SECTION XII ECOLOGICAL INFORMATION

Component Ecotoxicity

Diethyl Pthalate

96 Hr LC50 Pimephales promelas: 17 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 16.8 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 22 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 16.7 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 12 mg/L [flow-through] 48 Hr EC50 Daphnia magna: 36 - 74 mg/L; 48 Hr EC50 Daphnia magna: 86 mg/L [Static] 72 Hr EC50 Desmodemus subspicatus: 23 mg/L; 72 Hr EC50 Desmodemus subspicatus: 23 mg/L [static]; 96 Hr EC50 Desmodemus subspicatus: 21 mg/L; 96 Hr EC50 Desmodemus subspicatus: 21 mg/L [static]; 72 Hr EC50 Pseudokirchneriella subcapitata: 42 - 255 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 2.11 - 4.29 mg/L [static]

SECTION XIII DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Dispose waste material in accordance with Federal, State, and Local regulations. It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste. Comply with all applicable federal, state and local regulations. Waste disposal options include landfilling solids at permitted sites. Incinerate in a chemical incinerator equipped with an afterburner and scrubber. Use registered transporters.

Contaminated Packaging

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual flammable material, associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations.

SECTION XIV TRANSPORT INFORMATION

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Not Regulated, Polymer, NOS			
IATA	Not Regulated, Polymer, NOS			
IMDG	Not Regulated, Polymer, NOS			

SECTION XV REGULATORY INFORMATION

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- None

SARA 313

- None

US State Right-to-Know Regulations

-None

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
	EINECS	Yes
	SARA Hazard Categories	No
	TSCA Inventory	Yes

SECTION XVI OTHER INFORMATION

Hazardous Material Information System (HMIS)

National Fire Protection Association (NFPA)

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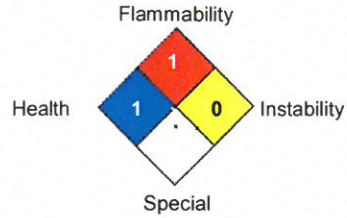


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HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

HMS & NFPA Hazard Rating
Legend
* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH



The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not considered a warranty or quality specification. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SDS Preparation Date: June 1, 2015

MATERIAL SAFETY DATA SHEET

March 1, 2013

YATES & BIRD/MOTLOID COMPANY
300 North Oakley Blvd.
Chicago, IL 60612
312-226-2412 or 312-226-2454

IN EMERGENCY CONTACT:
INFOTRAC: 800-535-5053
Outside USA: 352-353-3500

SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME: **Moldpac Acrylic Liquid**
GENERIC NAME: Self-Cure Cross Linked Acrylic Monomer
DOT NAME: Methyl Methacrylate Monomer, Inhibited
Flammable Liquid, UN 1247
HMIS: H=2 F=3 R=2

SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>COMPONENTS</u>	<u>CAS NUMBER</u>	<u>%</u>
Methylmethacrylate	80-62-6	>85
Polymerization Inhibitors: Hydroquinone Tertiary Amines Colorstable Agent, Ultraviolet light absorber (Aromatic ketone) Cross Linking agent (Polyfunctional acrylic monomer)		

SECTION III PHYSICAL DATA

VAPOR DENSITY: AIR=1	3.45
BOILING POINT:	@ 760 mm 214°F
VAPOR PRESSURE (mm Hg): @ 20°C/68°F	29
SOLUBILITY IN WATER: g/100g @ 68°F	1.6
EVAPORATION RATE: Butyl Acetate=1	3
SPECIFIC GRAVITY: H ₂ O=1	0.94
PERCENT VOLATILE BY VOLUME (%)	100%
APPEARANCE AND ODOR:	Water clear, colorless liquid

SECTION IV FIRE, EXPLOSION AND REACTIVITY INFORMATION

FLASH POINT (AND TEST METHOD): Closed Cup Tag. 50°F
FLAMMABLE LIMITS @77°F .1ATM % by vol LEL: 2.12 UEL: 12.5
EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, water fog (by trained personnel)
SPECIAL FIREFIGHTING PROCEDURES: Cool containers that are exposed to heat with cold water spray. Closed containers may overheat and rupture violently. Full protective equipment, including self-contained breathing apparatus, is recommended.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Heat can induce polymerization with rapid release of energy. Vapors may travel along floor to ignition source and flash back.
IMCOMPATIBILITY(MATERIALS TO AVOID): Has strong solvent action, will soften paint, swell rubber.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Acrid fumes, CO and/or CO₂
STABILITY: Stable: Elevated temperatures, Ignition sources.

HAZARDOUS POLYMERIZATION: May occur. Elevated temperatures. Storage with absence of inhibitor, addition of polymerization catalysts.

SECTION V HEALTH HAZARD INFORMATION

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Move subject to fresh air. Give oxygen or artificial respiration as required.

INGESTION: Induce vomiting and consult physician immediately.

EYE CONTACT: Flush eye with water for 15 minutes, consult physician.

SKIN CONTACT: Wash skin with soap and water

HEALTH HAZARDS

THRESHOLD LIMIT VALUE: 100 ppm Acute oral LD₅₀Rats = 7900Mg/Kg

EFFECTS OF OVEREXPOSURE: High vapor concentration can induce headache, nausea, smarting of eyes and irritation of respiratory system. Liquid contact with eyes will cause irritation and possible corneal damage.

SECTION VI ENVIRONMENTAL PROTECTION INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate ignition sources. Avoid breathing vapors. Dike and absorb liquid on inert material (sand, soda ash, vermiculite, etc.) and transfer to containers for disposal. Remove saturated clothing, wash affected skin areas with soap and water. Do not flush into sewer systems.

WASTE DISPOSAL METHOD: Incinerate under controlled conditions in safe open area, or landfill according to federal, state and local regulations. Biological degradation is also possible.

SECTION VII CONTROL MEASURES

RESPIRATORY PROTECTION: Not required if local ventilation keeps vapor concentration below TLV and LEL

VENTILATION: Yes. Local exhaust and mechanical as needed.

PROTECTIVE GLOVES: Impervious, Neoprene

EYE PROTECTION: Yes

OTHER PROTECTIVE EQUIPMENT: Rubber apron, safety showers. Use explosion proof motors.

SECTION VIII SPECIAL PRECAUTIONS

HANDLING PRECAUTIONS: Use grounding cables on all containers when dispensing.

STORAGE PRECAUTIONS: Store at ambient temperatures. Indoor storage should be limited to approved locations.

OTHER PRECAUTIONS: Some individuals are allergic to liquid monomer and any indication of rash or redness due to exposure should be a signal to avoid any contact and take special precautions.