SAFETY DATA SHEETS

This SDS packet was issued with item:

073233608

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

073232998 073233012 073233020 073233517

MATERIAL SAFETY DATA SHEET

DIRECTCROWN® PRODUCTS
CrownBeav LLC
817 N. Central Ave., Ste. B
Medford, OR 97501
888-910-4490/541-344-5876

IN EMERGENCY CONTACT:
INFOTRAC: 800-535-5053
Outside USA: 352-323-3500

SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME: **DirectCrown® Powder (DP-M)**
GENERIC NAME: Self Cure Acrylic Powder
CHEMICAL NAME: Methacrylate Polymer

SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

FOR POLYMER:

ITEM	CHEMICAL NAME	CAS NUMBER:	%:
01	Polymer	9011-14-7	60.0-100.0
02	Diethyl Phthalate	84-66-2	0.0-20.0
03	Benzoyl Peroxide	94-36-0	> 2.0

	ACGIH		OSHA			Company	
ITEM	TLV-TWA	TLV-STEL	PEL TWA	PEL CEILING		Recommendation	SKIN
01	10 mg/m^3	NE	15 mg/m^3	NE		15 mg/m^3	NE
02	5 mg/m^3	NE	5 mg/m^3 NE		5 mg/m^3	NE	
03	5 mg/m^3	NE	5 mg/m^3 NE		5 mg/m^3	NE	

HMIS: H=1 F=1 R=0
Personal Protective Equipment: Gloves and Safety Glasses or Chemical Goggles.
NFPA: H=1 F=1 R=0

SECTION III PHYSICAL DATA

APPEARANCE: Fine clear to pigmented powder.
ODOR: Faint odor in bulk.
pH: NA
ODOR THRESHOLD: ND
BOILING POINT: NA
FREEZING POINT: NA
VISCOSITY: NA
SPECIFIC GRAVITY (H_2O=1): ND
VAPOR PRESSURE: NA
PERCENT VOLATILE W/W%: NA
VAPOR DENSITY (AIR=1): NA
EVAPORATION RATE (BuAc =1): NA
SOLUBILITY IN WATER: Insoluble.
COEFFICIENT OF WATER/OIL DISTRIBUTION: ND

SECTION IV FIRE, EXPLOSION AND REACTIVITY INFORMATION

FLASH POINT: 304 °C, 580 °F
FLAMMABLE LIMIT, AIR VOL% LOWER: NA
UPPER: NA
AUTOIGNITION TEMPERATURE: NE
EXTINGUISHER METHOD: Water, carbon dioxide, dry chemical.
FIRE AND EXPLOSION HAZARDS: Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.
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.
EXPLOSION HAZARD: Firefighters should wear self-contained breathing apparatus.
SENSITIVE TO MECHANICAL IMPACT: For Polymer: No.
SENSITIVE TO STATIC DISCHARGE: For Polymer: No.

SECTION V HEALTH HAZARD INFORMATION

CARCINOGENICITY: None of the components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.

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 LD_{50}Rats = 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.

MATERIAL SAFETY DATA SHEET

DIRECTCROWN® PRODUCTS
CrownBeav LLC
817 N. Central Ave., Ste. B
Medford, OR 97501
888-910-4490/541-344-5876

IN EMERGENCY CONTACT:
INFOTRAC: 800-535-5053
Outside USA: 352-323-3500

SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME: **DIRECTCROWN® LIQUID (DL-M)**
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

COMPONENTS	CAS NUMBER	%
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_2O=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.
INCOMPATIBILITY (MATERIALS TO AVOID): Has strong solvent action, will soften paint, swell rubber.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Acrid fumes, CO and/or CO_2
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 LD_{50}Rats = 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.

SAFETY DATA SHEET

Issued Date: June 1, 2015 Revision Date: June 1, 2015

DirectCrown® Products
817 N. Central Ave., Ste. B
Medford, OR 97501
888-910-4490/541-622-6115

SECTION I PRODUCT AND COMPANY IDENTIFICATION

Product Identifiers

Product Name: Coldpac Ultra-Fast Set Tooth Acrylic Powder
Product Code: TP0165UFS
Synonyms: Self Cure Acrylic Powder

Recommended Use of the substance or mixture and Restrictions on Use

Cosmetic 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*	**Category**
Eye Damage/Irritation	2B
Skin Sensitizer	1

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

H317	May cause an allergic skin reaction
H320	Causes eye irritation

Precautionary Statements - *Prevention, Response, & Disposal*

P240	Ground and bond container and receiving equipment
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash hands and exposed skin thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P321	Specific treatment (see ... on this label)
P363	Wash contaminated clothing before reuse

P302+P352	IF ON SKIN: Wash with soap and water
P305+P351 +P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P337+P313	Get medical advice/attention
P501	Dispose of contents/container to an authorized disposal facility

SECTION III COMPOSITION ON INGREDIENTS

Chemical Name	Cas No.	Weight-%	GHS Ratings
Polymer	9011-14-7	-	Eye Damage/Irritation 2B (H320)
Diethyl Phthalate	84-66-2	-	
Benzoyl Peroxide	94-36-0	-	Eye Damage/Irritation 2A (H319) Skin Sensitizer 1 (H317)
Polymer	9003-42-3	-	Eye Damage/Irritation 2B (H320)

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 bounding procedures. Polymers are not sensitive to mechanical impacts.

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
Polymer 9011-14-			
Diethyl Phthalate 84-66-2		5 mg/m3 TWA	NIOSH: 5 mg/m3 TWA
Benzoyl Peroxide 94-36-0	5 mg/m3 TWA	5 mg/m3 TWA	NIOSH: 5 mg/m3 TWA
Polymer 9003-42-			

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

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, orsmoking.

SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear	**Physical State:** Powder
Odor: Faint	**Flash Point:** 577° F 303° C
Flammable Limit (Air Volume%, 0% Lower/Upper)	**Autoignition Temperature:** 80°C
Evaporation Rate: No Data Available	**Boiling Range (low-high):** 295°C
Specific Gravity: 0	

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

Inhalation
Eye Contact

Target Organs

Eyes Central Nervous System Reproductive System Skin

Peripheral Nervous System Respiratory System

Effects of Overexposure

Inhalation	Overexposure by inhalation of titanium dioxide may include mild and temporary upper respiratory irritation with cough and shortness of breath
Skin Contact	No data found.

SAFETY DATA SHEET

Issued Date: June 1, 2015 Revision Date: June 1, 2015

Eye Contact No data found.
Ingestion No data found.

Product Components Listed as Carcinogenic

CAS Number	Description	%Weight	Carcinogen Rating
None			No data available

SECTION XII ECOLOGICAL INFORMATION

Component Ecotoxicity

Diethyl Phthalate

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 Desmodesmus subspicatus: 23 mg/L; 72 Hr EC50 Desmodesmus subspicatus: 23 mg/L [static]; 96 Hr EC50 Desmodesmus subspicatus: 21 mg/L; 96 Hr EC50 Desmodesmus 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

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
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:

13463-67-7 Titanium Dioxide (CI 77891) 0% Carcinogen

SARA 313

Benzoyl Peroxide 94-36-0

US State Right-to-Know Regulations

-None

Country	Regulation	All Components Listed
	Canada DSL	Yes
	EINECS	No
	SARA Hazard Categories	No
	TSCA Inventory	Yes

SECTION XVI OTHER INFORMATION

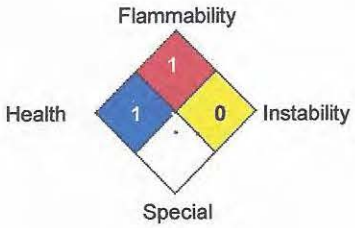
Hazardous Material Information System (HMIS)

National Fire Protection Association (NFPA)

SAFETY DATA SHEET

Issued Date: June 1, 2015 Revision Date: June 1, 2015

HMIS & 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.

Safety Data Sheet

DIRECTCROWN® PRODUCTS
CrownBeav LLC
817 N. Central Ave., Ste. B
Medford, OR 97501
888-910-4490/541-622-6115

Issue Date: 01-Mar-2013 **Revision Date:** 20-Jun-2017 **Version** 1

1. IDENTIFICATION

Product Identifier
Product Name Ultra-Fast Set Liquid

Other means of identification
SDS # MOT-001

Synonyms Self-Cure Cross Linked Acrylic Monomer.

UN/ID No UN1993

Recommended use of the chemical and restrictions on use
Recommended Use Acrylic temporary crown and bridge material.

Details of the supplier of the safety data sheet
Supplier Address
MOTLOID COMPANY/YATES & BIRD
300 North Oakley Blvd
Chicago, IL 60612

Emergency Telephone Number
Company Phone Number 1-312-226-2473 (Business)
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Clear liquid **Physical State** Liquid **Odor** Strong Characteristic acrid

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Flammable Liquids	Category 2

Signal Word
Warning

Hazard Statements
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause respiratory irritation. May cause drowsiness or dizziness
EXTREMELY FLAMMABLE LIQUID AND VAPOR

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
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 equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool

Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a poison center or doctor/physician
If skin irritation or rash 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
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a poison center or doctor/physician
IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

WHMIS Classification
B2 - Flammable liquid

Other Hazards
Harmful to aquatic life with long lasting effects
Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Self-Cure Cross Linked Acrylic Monomer.

Chemical Name	CAS No	Weight-%
Methyl Methacrylate	80-62-6	>85
Proprietary Polymerization Inhibitor	Proprietary	5-15
Colorstable Agent, Ultraviolet light absorber (Aromatic Ketone)	Proprietary	<1
Benzenamine, N,N,4-trimethyl-	99-97-8	<5

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

Skin Contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Get medical attention if symptoms occur.

Inhalation Remove to fresh air. Keep patient warm and at rest. Seek immediate medical attention/advice.

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.

Most important symptoms and effects

Symptoms Causes skin irritation. Causes severe eye irritation. May cause an allergic skin reaction. May cause dermatitis or irritation in some individuals upon prolonged contact. Inhalation may cause respiratory tract irritation. Inhalation may cause drowsiness or dizziness.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Carbon dioxide (CO2). Dry chemical. Foam.

Unsuitable Extinguishing Media Water may be ineffective, but can be used to protect firefighter and cool containers.

Specific Hazards Arising from the Chemical
Product is readily igniteable. Highly flammable liquid and vapor. For bulk size >1L- High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. Vapors are heavier than air and may travel along ground to ignition sources and flash back.

Hazardous Combustion Products Carbon oxides.
Sensitivity to Mechanical Impact No.
Sensitivity to Static Discharge Yes.

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. Fight fire from a safe location. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protection recommended in Section 8. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Environmental Precautions Prevent runoff from entering drains, sewers or streams.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Absorb spillage with non-combustible, absorbent material. Do not use combustible materials, such as saw dust. Use clean non-sparking tools to collect absorbed material. Maximize ventilation by opening doors and windows. Place all clean-up materials in an appropriate closed container in accordance with local, state, and federal regulations. Wash all affected areas with plenty of warm water and soap. Remove contaminated clothing and wash before reuse. In the event of an uncontrolled release of this material, the user should determine if the release is reportable under applicable laws and regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8.Wash face, hands, and any exposed skin thoroughly after handling. Wash thoroughly after handling before eating, drinking, smoking, or using toilet facilities. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Vapor is heavier than air; beware of pits and confined spaces. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Use non-sparking hand tools and explosion-proof electrical equipment. Take precautionary measures against static discharges. Keep containers closed when not in use. Ground/bond container and receiving equipment. Observe precautions found on the label.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Store locked up. Storage temperature should preferably not exceed 25°C/77°F. Methacrylate stored in bulk must be kept in contact with air (oxygen). Monomer vapors are uninhibited and may form polymers in vent or flame arresters, resulting in blockage of vents. Avoid excessive heat in storage to maintain product quality. Temperatures above 21°C (70°F), localized heat sources (example: drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing.

Packaging Materials Keep in original container.

Incompatible Materials Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers. Material has strong solvent properties and can soften paint and rubber.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl Methacrylate 80-62-6	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 410 mg/m^3 (vacated) TWA: 100 ppm (vacated) TWA: 410 mg/m^3	IDLH: 1000 ppm TWA: 100 ppm TWA: 410 mg/m^3

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Use appropriate engineering controls such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective, wear suitable personal protective equipment, which perform satisfactorily and meet OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of personal protective equipment. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Depending on the use of this product, safety glasses or goggles may be worn. If necessary, refer to U.S. OSHA 29CFR SS1910.133. Canadian standards, or the European Standard EN 166. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

Skin and Body Protection Skin: Wear appropriate gloves to prevent skin exposure; chemical impervious gloves (eg: Nitrile or Neoprene). Refer to US OSHA 29 CFR 1910.138.

Body/Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respiratory Protection Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator.

General Hygiene Considerations Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	Clear liquid	**Odor**	Strong Characteristic acrid
Color	Not determined	**Odor Threshold**	Not determined

Property	Values	Remarks • Method
pH	Not determined	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	101°C/214°F	
Flash Point	11.5°C/52.7°F	Tag Closed Cup
Evaporation Rate	3.1	(butyl acetate = 1)
Flammability (Solid, Gas)	Liquid-not applicable	
Upper Flammability Limits	12.5% @ 421°C/790°F	
Lower Flammability Limit	2.12% @ 421°C/790°F	

Vapor Pressure	28 mmHg @ 20°C/68°F	
Vapor Density	3.5 @ 15.5°C/60°F	(Air=1)
Specific Gravity	0.94	(1=Water)
Water Solubility	1.6 wt% @ 20°C/68°F	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Like water	
Dynamic Viscosity	Like water	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
Density	0.949 g/ml @ 15.5°C/60°F	

10. STABILITY AND REACTIVITY

Reactivity
Reactive upon depletion of inhibitor.

Chemical Stability
Unstable upon depletion of inhibitor.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization Hazardous polymerization may occur.

Conditions to Avoid
Temperatures above 21°C (70°F), localized heat sources (example: drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing.

Incompatible Materials
Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers. Material has strong solvent properties and can soften paint and rubber.

Hazardous Decomposition Products
Oxides of Carbon when burned.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes. Causes serious eye irritation.

Skin Contact Avoid contact with skin. Causes skin irritation. May cause an allergic skin reaction.

Inhalation May cause respiratory irritation. May cause drowsiness or dizziness.

Ingestion Ingestion may cause irritation of the mucous membranes, esophagus, and stomach.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl Methacrylate 80-62-6	= 7872 mg/kg (Rat)	> 5 g/kg (Rabbit)	= 4632 ppm (Rat) 4 h = 400 ppm (Rat) 1 h
Proprietary Polymerization Inhibitor	= 3300 mg/kg (Rat)	-	-
Benzenamine, N,N,4-trimethyl- 99-97-8	= 1650 mg/kg (Rat)	-	= 1400 mg/m^3 (Rat) 4 h

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Skin corrosion/irritation Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Methyl Methacrylate 80-62-6		Group 3		

Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

STOT - single exposure Causes damage to the following organs through prolonged or repeated exposure:. nose. Liver. Kidneys.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Methyl Methacrylate 80-62-6	170: 96 h Pseudokirchneriella subcapitata mg/L EC50	243 - 275: 96 h Pimephales promelas mg/L LC50 flow-through 125.5 - 190.7: 96 h Pimephales promelas mg/L LC50 static 170 - 206: 96 h Lepomis macrochirus mg/L LC50 flow-through 153.9 - 341.8: 96 h Lepomis macrochirus mg/L LC50 static 79: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 79: 96 h Oncorhynchus mykiss mg/L LC50 static 326.4 - 426.9: 96 h Poecilia reticulata mg/L LC50 static		69: 48 h Daphnia magna mg/L EC50
Benzenamine, N,N,4- trimethyl- 99-97-8		42 - 50.5: 96 h Pimephales promelas mg/L LC50 flow-through		

Persistence/Degradability
Not readily biodegradable. Chemical Oxygen Demand (COD): 88% (28 days). Inherent Biodegradation: Dissolved Organic Carbon Removal (DOC Removal): >95% (28 days).

Bioaccumulation
Not determined.

Mobility
Potential for mobility in soil is very high

Chemical Name	Partition Coefficient
Methyl Methacrylate 80-62-6	0.7
Benzenamine, N,N,4-trimethyl- 99-97-8	2.81

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA Waste Number

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl Methacrylate 80-62-6	U162	Included in waste stream: F039		U162

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Methyl Methacrylate 80-62-6	Toxic Ignitable

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT
UN/ID No UN1993
Proper Shipping Name Flammable liquids, n.o.s. (Methyl methacrylate monomer, stabilized, N,N-dimethyl-p-toludine)
Hazard Class 3
Packing Group II
Reportable Quantity (RQ) 1000 lb

IATA
UN/ID No UN1993
Proper Shipping Name Flammable liquid, n.o.s. (Methyl methacrylate, stabilized, N,N-dimethyl-p-toludine)
Hazard Class 3
Packing Group II

IMDG

UN/ID No	UN1993
Proper Shipping Name	Flammable liquid, n.o.s. (Methyl methacrylate, stabilized, N,N-dimethyl-p-toludine)
Hazard Class	3
Packing Group	II

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	Listed

Legend:

TSCA *- United States Toxic Substances Control Act Section 8(b) Inventory*

DSL/NDSL *- Canadian Domestic Substances List/Non-Domestic Substances List*

EINECS/ELINCS *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

ENCS *- Japan Existing and New Chemical Substances*

IECSC *- China Inventory of Existing Chemical Substances*

KECL *- Korean Existing and Evaluated Chemical Substances*

PICCS *- Philippines Inventory of Chemicals and Chemical Substances*

US Federal Regulations

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Methyl Methacrylate 80-62-6	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Methyl Methacrylate - 80-62-6	80-62-6	>85	1.0

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Methyl Methacrylate 80-62-6 (>85)	1000 lb			X

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Methyl Methacrylate 80-62-6	X	X	X

16. OTHER INFORMATION

NFPA	**Health Hazards** 2	**Flammability** 3	**Instability** 2	**Special Hazards** Not determined **Personal Protection** Gloves and safety glasses or chemical splash goggles
HMIS	**Health Hazards** 2	**Flammability** 3	**Physical Hazards** 2	

Issue Date: 01-Mar-2013
Revision Date: 20-Jun-2013
Revision Note: New format

Disclaimer

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 a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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.

End of Safety Data Sheet