



MATERIAL SAFETY DATA SHEET

PRODUCT NUMBER: 11 99 15

SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

SUPPLIER: METPREP LTD.
CURRIERS CLOSE
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PRODUCT: CRYSTALLITE

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Substance

-Chemical name: Polyvinyl Formal resins
-Synonyms: Acetic acid ethenyl ester, polymer with ethanol and
1.1¹ - [methylenebis (oxy)] bis[ethene]

Chemical Formula:

INGREDIENT (S):	%:
Vinyl formal	81
Vinyl acetate	9.5-13
Vinyl alcohol	5-6.5

CAS NUMBER: 63148-64-1. 63450-15-7

MITI No: (6)-716

EINECS No: Not applicable

Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance: There is no information

Composition: More than 99% by weight

SECTION 3 SUBSTANCE HAZARD IDENTIFICATION

GHS Classification

· Physical and chemical hazards

Explosives:	Out of classification object
Flammable gases:	Out of classification object
Flammable aerosols	Out of classification object
Oxidising gases:	Out of classification object
Gases under pressure:	Out of classification object
Flammable liquids:	Out of classification object
Flammable solids:	Not classified
Self-reactive substances and mixtures:	Out of classification object
Pyrophoric liquids:	Out of classification object
Pyrophoric solids:	Not classified
Self-heating substances and mixtures:	Not classified
Substances and mixtures which, in contact with water, emit flammable gases:	Out of classification object
Oxidising liquids:	Out of classification object
Oxidising Solids:	Out of classification object
Organic peroxides:	Out of classification object
Corrosive to metals:	Not classified



-Health hazards

Acute toxicity	
Oral:	Classification not possible
Dermal:	Classification not possible
Inhalation:	
Gases:	Out of classification object
Vapours:	Classification not possible
Dusts:	Classification not possible
Mists:	Classification not possible
Skin Corrosion/Irritation:	Classification not possible
Serious eye damage/Eye irritation:	Classification not possible
Sensitisation-Respiratory:	Classification not possible
Sensitisation-Skin:	Not classified
Germ cell Mutagenicity:-	Classification not possible
Carcinogenicity:	Classification not possible
Toxic to Reproduction:	Classification not possible
Specific target organ systemic toxicity	
Single exposure:	Classification not possible
Repeated exposure:	Classification not possible
Aspiration toxicity:	Classification not possible

-Environmental hazards

Hazardous to the aquatic environment	
Acute hazard:	Classification not possible
Chronic hazard:	Classification not possible
Label element	
Pictograms or Symbols:	None
Signal word:	None
Hazard statement:	

Dust explosion possible if in powder or granular form, mixed with air.

Precautionary statement

Prevention:

Keep away from ignition sources such as heat/sparks/open flame – NO SMOKING.
Wear protective gloves and eye/face protection;
Ground/Bond container and receiving equipment.
Take precautionary measures against static discharge.
Use explosion- proof electrical/ventilating/lighting equipment.
Do not breathe dust/fume.

Response:

In case of fire, use appropriate media for extinction.

IF ON SKIN:

Remove /take off immediately all contaminated clothing
Rinse skin with water/shower
If skin irritation occurs, seek medical advice/attention.

Storage:

Store container tightly closed in cool/well-ventilated place

Disposal:

Dispose of contents/container in accordance with regulation

National or regional information:

Fire Service Act: Specified combustible material (synthetic resins)



SECTION 4 FIRST AID MEASURES

INHALATION: Remove to fresh air. In case of irritation to respiratory system, seek medical attention.
SKIN: When contact with skin, remove all contaminated clothing and rinse immediately with soap and water.
EYE: Rinse cautiously with clear water, holding the eyelids apart, for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain immediate medical attention.
INGESTION: Do not induce vomiting. Rinse mouth with water. Obtain medical attention. Never give anything by mouth to an unconscious person. Call a physician.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry Sand, foam, dry powder or CO₂. Keep fire exposed containers cool by spraying with water.
UNSUITABLE EXTINGUISHING MEDIA:
FIRE FIGHTING PROTECTIVE EQUIPMENT: A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.
FURTHER INFORMATION: Burning produces Carbon Oxides, Nitrogen Oxides, and under certain conditions of combustion, traces of other toxic substances cannot be excluded. Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Ensure adequate ventilation. Do not breathe vapour. Avoid ignition sources. Avoid contact with skin, eyes and clothing.
ENVIRONMENTAL PRECAUTIONS: Prevent entry into drains. Do not contaminate surface water. Avoid subsoil penetration.
METHODS OF CLEANING UP: Pick - up mechanically. Dispose of absorbed material in accordance with regulations.

SECTION 7 HANDLING AND STORAGE

HANDLING: Provide exhaust ventilation if dust is formed. Suitable industrial vacuum cleaners or central exhaust ventilation equipment must be used for taking up dust.
STORAGE: Keep only in original container. Store in cool, dry place away from heat, sparks, flame and direct sunlight. Keep container closed to prevent water absorption and contamination. Keep away from sources of ignition – No Smoking.

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS:

Total Dust	ACGIH TLV/TWA	15	mg /m ³
	OSHA PEL/TWA	15	mg /m ³
Respirable Dust		5	mg /m ³

ENGINEERING MEASURES: Use with local exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORS: Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. A suitable mask with filter type A may be appropriate. In the event of formation of particularly high levels of dust a self-contained breathing apparatus may be appropriate.

EYE PROTECTION: Safety glasses or chemical splash goggles.

GLOVES: Wear suitable gloves. PVA/Polyethylene laminate and supported PVA gloves offer the best protection. Gloves should be changed regularly and if excessive exposure has occurred.

OTHER: Wear suitable protective clothing.

PROTECTIVE MEASURES: Do not breathe vapours/dust. Keep away from sources of ignition – No smoking. Avoid contact with skin, eye & clothing.

Recommended material strength: ≥ 0.11 mm

· **Penetration time of glove material** Penetration time ≥ 8 h

· **Eye protection:** Safety glasses

· **Body protection:** Not required



SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White to light Yellow powder
ODOUR:	None
PH	No data available
MELTING POINT AND FREEZING POINT:	No data available
BOILING POINT, and initial boiling point and boiling range:	No data available
FLASH POINT:	No data available
EXPLOSION LIMIT:	
Dust explosion lower limit:	
- 200 Mesh (grain size < 74µm)	80mg/L
+ 200 Mesh (grain size > 74µm)	750mg/L
product grain (12 Mesh pass, grain size < 1410µm)	1000mg/L
minimum ignition energy:	
- 200 Mesh	
76mj (dust concentration; 1200mg/L)	
80mj (dust concentration; 800mg/L)	
150mj (dust concentration; 500mg/L)	
*Mesh; The Tyler Standard Screen Sieves.	

VAPOUR PRESSURE:	No data available
VAPOUR DENSITY:	No data available
SPECIFIC GRAVITY:	1.1 – 1.3 (true specific gravity)
WATER SOLUBILITY:	Insoluble
SPONTANEOUS IGNITION TEMP:	No data available
DECOMPOSITION TEMP:	No data available
ODOUR THRESHOLD VALUE:	No data available
EVAPOURATION RATE:	No data available
COMBUSTION CHARACTERISTICS	
(solid, gas)	No data available
VISCOSITY:	No data available

SECTION 10 STABILITY AND REACTIVITY PROPERTIES

Stability:

Stable under normal handling and storage conditions.

Hazardous reaction potential:

No dangerous reaction known under conditions of normal use.

Conditions to avoid:

Heat, contact with fire sources.

Incompatible products:

None

Hazardous decomposition products:

In case of fire or thermal decomposition production of toxic gases (carbone monoxide, carbon dioxide, Formaldehyde, acetic acid, acrolein)

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

ORAL TOXICITY:	LD50 rat	>5010 mg/kg	non-toxic
DERMAL TOXICITY:	LD50 rabbit	> 2000 mg/kg	slightly toxic
EYE IRRITATION:	Slightly Irritating		
SKIN IRRITATION:	Non irritating		
SENSITISATION:			

After years of appropriate handling, no health problems have been observed.



SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:

No data available

Persistence.degradability:

No data available

Bioaccumulation:

No data available

Mobility in soil:

No data available

Information on other hazardous effect:

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Residual waste:

Any disposal practice must be in compliance with country, local and federal laws and regulations.

Burn in a chemical incinerator equipped with an after-burner and a scrubber.

When you consign disposal of waste, should be consigned to the industrial waste disposal trader who obtains authorisation of the administrative divisions governor etc. after risks and the hazardous property are notified enough.

Contaminated containers or packaging:

Recycle containers after cleaning or dispose of them according to relevant legislation as well as standards in local governments.

Empty containers should be disposed of after completely removing their contents.

SECTION 14 TRANSPORT INFORMATION

International regulations:

UN-Number: non-correspondence

UN-Classification: non-correspondence

Ocean Contaminant: non-correspondence

Regulations in Japan

Land: According to regulations of Fire Service Law

Sea: non-correspondence

Air: non-correspondence

Special safety Measures:

Before transportation, make sure that the containers are tightly sealed and that there are no liquid or gas leaks.

When transporting containers, be sure that they are fastened tight. An appropriate buffer material should be placed between them to prevent them from bumping into each other and being damaged during transport.

If a tank lorry or truck is used to transport this substance, it is necessary to check the vent valve and flange surfaces safety valve carefully in advance to ensure that no leak occurs during transportation.

When transporting this substance by vehicle, it is necessary for the shipper to have the transporter carry transportation instructions and Yellow Card.

SECTION 15 REGULATORY INFORMATION

Fire Service Act:

Specified combustible material (synthetic resins)

SECTION 16 OTHER INFORMATION

This information hererin is given in good faith, but no warranty, Expressed or Implied is made. MetPrep Ltd shall not be held liable for any damage resulting from the handling of or contact with the above product.