



Safety Data Sheet acc. to OSHA HCS

Printing date 08/26/2022

Version 1

Reviewed on 08/26/2022

1 Identification

· **Product identifier**

· **Trade name:**

Metaclad 175 W/20% xylene Frozen

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Protavac America/Mereco Technologies
8 Ricker Avenue
Londonderry NH 03053
USA

Phone +1 / 603-623-8626

· **Information department:**

Technical department.
email = info@mereco.com

· **Emergency telephone number:**

Telephone: (800) 424-9300 (Chemtrec)
Call this number in the event of an accident resulting in a spill, leak or fire. Call this number in the event of exposure to the chemicals.

2 Hazard(s) identification

· **Classification of the substance or mixture**



Flam. Liq. 3 H226 Flammable liquid and vapor.



Carc. 2 H351 Suspected of causing cancer.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



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· **Signal word**

Warning

· **Hazard-determining components of labeling:**

polyamide resin
4-methylpentan-2-one
triethylenetetramine (TETA)
Bisphenol A, p-tertbutylphenol, (chloromethyl) oxirane polymer

· **Hazard statements**

H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a poison center/doctor if you feel unwell.
P321 Specific treatment (see on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.
P363 Wash contaminated clothing before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**· **NFPA ratings (scale 0 - 4)**

Health = 2
Fire = 3
Reactivity = 0

· **HMS-ratings (scale 0 - 4)**

Health = *2
Fire = 3
Reactivity = 0

· **Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

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3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with non-hazardous additions.
Non-hazardous ingredients are not listed.

· **Components:**

	Polyamide resin	20-40%
	⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
	Diglycidyl Ether Bisphenol-A epoxy resin	10-20%
	⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
	Solvent	10-20%
	⚠ Eye Irrit. 2A, H319	
CAS: 1330-20-7 EINECS: 215-535-7	xylene	20-40%
	⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
CAS: 108-10-1 EINECS: 203-550-1	4-methylpentan-2-one	3-10%
	⚠ Flam. Liq. 2, H225; ⚠ Carc. 2, H351; ⚠ Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335	
CAS: 112-24-3 EINECS: 203-950-6	triethylenetetramine (TETA)	1-3%
	⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	

· **SVHC (Substances of Very High Concern - REACH)**

None of the ingredients is listed.

· **Additional information:**

For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**

· **General information:** Symptoms of poisoning may even occur after several hours; therefore medical observation is necessary for at least 48 hours after the accident.

· **After inhalation:** Supply fresh air. For added safety, call a doctor.
In case of unconsciousness place patient in a stable side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

Headache
Dizziness

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Mouth respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections** See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:

	polyamide resin	30 mg/m ³
1330-20-7	xylene	130 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	30 ppm
108-10-1	4-methylpentan-2-one	75 ppm
112-24-3	triethylenetetramine (TETA)	3 ppm
50-00-0	formaldehyde	0.90 ppm

· PAC-2:

	polyamide resin	330 mg/m ³
1330-20-7	xylene	920* ppm
112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm
108-10-1	4-methylpentan-2-one	500 ppm
112-24-3	triethylenetetramine (TETA)	14 ppm
50-00-0	formaldehyde	14 ppm

· PAC-3:

	polyamide resin	2,000 mg/m ³
1330-20-7	xylene	2500* ppm
112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm
108-10-1	4-methylpentan-2-one	3000* ppm

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112-24-3	triethylenetetramine (TETA)	83 ppm
50-00-0	formaldehyde	56 ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Use only in well ventilated areas.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

1330-20-7 xylene (20-40%)	
PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm
	Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: (150) ppm
	Long-term value: (100) NIC-20 ppm
	BEI, A4
112-34-5 2-(2-butoxyethoxy)ethanol (10-20%)	
TLV	Long-term value: 10* ppm
	*Inhalable fraction and vapor
108-10-1 4-methylpentan-2-one (3-10%)	
PEL	Long-term value: 410 mg/m ³ , 100 ppm

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REL	Short-term value: 300 mg/m ³ , 75 ppm Long-term value: 205 mg/m ³ , 50 ppm
TLV	Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3
112-24-3 triethylenetetramine (TETA) (1-3%)	
WEEL	Long-term value: 6 mg/m ³ , 1 ppm Skin
Ingredients with biological limit values:	
1330-20-7 xylene (20-40%)	
BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
108-10-1 4-methylpentan-2-one (3-10%)	
BEI	1 mg/L Medium: urine Time: end of shift Parameter: MIBK

• **Additional information:** The lists that were valid during the creation were used as basis.

• **Exposure controls**

• **Personal protective equipment:**

• **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

• **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device.
In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• **Protection of hands:**

Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material is based on consideration of the penetration times, rates of diffusion and the degradation of the material.

• **Material of gloves**

The selection of suitable gloves depends not only on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

• **Penetration time of glove material**

The exact penetration time has to be determined by the glove manufacturer and has to be observed.

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Trade name: Metaclad 175 W/20% xylene Frozen
Eye protection: Tightly sealed goggles

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9 Physical and chemical properties

Information on basic physical and chemical properties
General Information
Appearance:
Form: Not determined.

Color: Cloudy

Odor: Petroleum-like

Odour threshold: Not determined.

pH-value: Not determined.

Change in condition
Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 137-143 °C

Flash point: 30 °C

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 225 °C

Decomposition temperature: Not determined.

Auto igniting: Product is not self-igniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures is possible.

Explosion limits:
Lower: 0.9 Vol %

Upper: 7 Vol %

Vapor pressure at 20 °C: 6.7-8.2 hPa

Density at 20 °C: 0.97 g/cm³
Relative density Not determined.

Vapor density Not determined.

Evaporation rate Not determined.

Solubility in / Miscibility with
Water: Fully miscible.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:
Dynamic: Not determined.

Kinematic: Not determined.

Solvent content:
Organic solvents: 39.5 %

Solids content: 1.0 %

Other information No further relevant information available.

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10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Reacts with strong oxidizing agents.
- **Hazardous decomposition products:** Irritant gases/vapors

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:

polyamide resin

Oral	LD50	16,000 mg/kg (rat)
Dermal	LD50	6,500 mg/kg (rabbit)

1330-20-7 xylene

Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	27.5 mg/l (rat)

112-34-5 2-(2-butoxyethoxy)ethanol

Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	4,000 mg/kg (rabbit)

108-10-1 4-methylpentan-2-one

Oral	LD50	2,080 mg/kg (rat)
Dermal	LD50	16,000 mg/kg (rab)
Inhalative	LC50/4 h	8.3-16.6 mg/l (rat)

112-24-3 triethylenetetramine (TETA)

Oral	LD50	1,716.2 mg/kg (rat)
Dermal	LD50	1,465.4 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:** The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant

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· Carcinogenic categories
· IARC (International Agency for Research on Cancer)

1330-20-7	xylene	3	20-40%
108-10-1	4-methylpentan-2-one	2B	3-10%

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity
· Aquatic toxicity: No further relevant information available.

· Persistence and degradability No further relevant information available.

· Behavior in environmental systems:
· Bioaccumulative potential No further relevant information available.

· Mobility in soil No further relevant information available.

· Additional ecological information:
· General notes: Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

· Results of PBT and vPvB assessment
· PBT: Not applicable.

· vPvB: Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods
· Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:
· Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agent:

Water, if necessary with cleansing agents.

14 Transport information

· UN-Number
· DOT, ADR, IMDG, IATA

UN1268

· UN proper shipping name
· DOT

Petroleum distillates, n.o.s. (Xylenes, Methyl isobutyl ketone)

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· ADR	1268 PETROLEUM DISTILLATES, N.O.S. (XYLENES, METHYL ISOBUTYL KETONE)
· IMDG, IATA	PETROLEUM DISTILLATES, N.O.S. (XYLENES, METHYL ISOBUTYL KETONE)
· Transport hazard class(es)	
· DOT, IMDG, IATA	
· Class	3 Flammable liquids
· Label	3
· ADR	
· Class	3 (F1) Flammable liquids
· Label	3
· Packing group	
· DOT, ADR, IMDG, IATA	III
· Environmental hazards:	Not applicable.
· Marine pollutant:	Yes (DOT)
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	30
· EMS Number:	F-E, S-E
· Segregation groups	Alkalis
· Stowage Category	A
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional Information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· Remarks:	Special marking with the symbol (fish and tree).
· ADR	
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1268 PETROLEUM DISTILLATES, N.O.S. (XYLENES, METHYL ISOBUTYL KETONE), 3, III

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 302 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

Glycol Ethers Category N230 5% - 15%

1330-20-7	xylene	20-40%
112-34-5	2-(2-butoxyethoxy)ethanol	10-20%
108-10-1	4-methylpentan-2-one	3-10%

· Sections 311/312 (Specific hazard chemical listings):

	polyamide resin	
1330-20-7	xylene	
112-34-5	2-(2-butoxyethoxy)ethanol	
108-10-1	4-methylpentan-2-one	
112-24-3	triethylenetetramine (TETA)	

· Sections 311/312 Hazard Categorizations:

	polyamide resin	Category = A (Acute health hazard)	20-40%
1330-20-7	xylene	A,C (Acute, Chronic Health); F (Fire)	20-40%
112-34-5	2-(2-butoxyethoxy)ethanol	A = Acute, C = Chronic (Health Hazards)	10-20%
108-10-1	4-methylpentan-2-one	A = Acute health hazard; F= Fire hazard	3-10%
112-24-3	triethylenetetramine (TETA)	A = Acute; C = Chronic (health hazards)	1-3%

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

1330-20-7	xylene	
108-10-1	4-methylpentan-2-one	
50-00-0	formaldehyde	

· Proposition 65

· Chemicals known to cause cancer:

108-10-1	4-methylpentan-2-one	*	3-10%
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· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

108-10-1	4-methylpentan-2-one	3-10%
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· Carcinogenic categories

· EPA (Environmental Protection Agency)

1330-20-7	xylene	I	20-40%
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108-10-1	4-methylpentan-2-one	I	3-10%
• TLV (Threshold Limit Value)			
1330-20-7	xylene	A4	20-40%
• MAK (German Maximum Workplace Concentration)			
None of the ingredients is listed.			
• NIOSH-Ca (National Institute for Occupational Safety and Health)			
None of the ingredients is listed.			
• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.			

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
 - H225 Highly flammable liquid and vapor.
 - H226 Flammable liquid and vapor.
 - H302 Harmful if swallowed.
 - H312 Harmful in contact with skin.
 - H314 Causes severe skin burns and eye damage.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
 - H332 Harmful if inhaled.
 - H335 May cause respiratory irritation.
 - H351 Suspected of causing cancer.

- **Department issuing SDS:** Technical department
- **Contact:** Bill MacDonald
- **Date of preparation / previous revision** 08/26/2022 / -

- **Abbreviations and acronyms:**
 - ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - NFPA: National Fire Protection Association (USA)
 - HMIS: Hazardous Materials Identification System (USA)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - SVHC: Substances of Very High Concern
 - vPvB: very Persistent and very Bioaccumulative
 - NIOSH: National Institute for Occupational Safety
 - OSHA: Occupational Safety & Health
 - TLV: Threshold Limit Value
 - PEL: Permissible Exposure Limit
 - REL: Recommended Exposure Limit
 - BEI: Biological Exposure Limit
 - Flam. Liq. 2: Flammable liquids – Category 2
 - Flam. Liq. 3: Flammable liquids – Category 3

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*Acute Tox. 4: Acute toxicity – Category 4**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A**Skin Sens. 1: Skin sensitisation – Category 1**Carc. 2: Carcinogenicity – Category 2**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

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