AMERICAN RECYCLING CENTER, INC.
655 WABASSEE DRIVE
OWOSSO, MI 48867
PHONE – 989-725-5100

SAFETY DATA SHEET

03/29/2021

PremARC® Water Based Maintenance Coating

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name: **PremARC® Water Based Maintenance Coating**

Details of the supplier of the safety data sheet:

Supplier: American Recycling Center, Inc.
655 Wabassee Drive
Owosso, MI 48867

Emergency telephone number

24 Hour Emergency Phone Number – 800-424-9300
Customer Information Center: 989-725-5100

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS08 Health hazard

Repr. 1B H360 May damage fertility or the unborn child.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

· ***Storage:*** *Do not allow product to freeze.*

· ***Label elements***

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

· ***Hazard pictograms***

GHS07 GHS08

· ***Signal word*** *Danger*

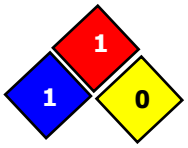
Hazard-determining components of labeling:
N-methyl-2-pyrrolidone

Hazard statements
Causes skin irritation.
Causes serious eye irritation.
May cause damage to fertility or the unborn child.

Precautionary Statements
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local/reginal/national/international regulations.

Classification system:
NFPA ratings (scale 0 - 4)



Health = 1
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH	1	Health=1
FLAMMABILITY	1	Fire=1
REACTIVITY	0	Reactivity=0

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

· ***Chemical characterization: Mixtures***
· ***Description:*** *Waterborne Polyurethane Dispersion*

· ***Dangerous components:***		
872-50-4	*N-methyl-2-pyrrolidone*	*5-10%*
121-44-8	*triethylamine*	*1-5%*

SECTION 4: FIRST AID MEASURES

Description of first aid measures

· ***After inhalation:***
If inhaled, remove victim from the immediate area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
· ***After skin contact:***
Instantly wash with water and soap and rinse thoroughly. Remove any contaminated clothing. If skin irritation persists, seek medical advice.
· ***After eye contact:***
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Use lukewarm water if possible. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Then remove contact lenses, if easily removable, and continue eye irrigation for not less than 15 minutes. Get medical attention.

· ***After swallowing:*** *Wash mouth out with water. Do not give anything by mouth to an unconscious person.*
· ***Information for doctor:***
· ***Most important symptoms and effects, both acute and delayed*** *No further relevant information available.*
· ***Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

SECTION 5: FIREFIGHTING MEASURES

· ***Extinguishing media***
· ***Suitable extinguishing agents:*** *Water fog, carbon dioxide, foam or dry chemical.*
· ***Special hazards arising from the substance or mixture***
The dried polymer is capable of combusting.
Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.
· ***Advice for firefighters***
· ***Protective equipment:***
Wear breathing apparatus
Wear full protective suit with self-contained breathing apparatus
See section 8
· ***Additional information*** *Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*

SECTION 6: ACCIDENTAL RELEASE MEASURES

· ***Personal precautions, protective equipment and emergency procedures***
Wear protective equipment. Keep unprotected persons away.
· ***Environmental precautions:*** *Do not allow product to reach sewage system or bodies of water.*
· ***Methods and material for containment and cleaning up:***
Dispose 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:***		
872-50-4	N-methyl-2-pyrrolidone	30 ppm
121-44-8	triethylamine	1 ppm
75-21-8	ethylene oxide	5 ppm
123-91-1	1,4-dioxane	17 ppm
50-00-0	formaldehyde	0.90 ppm
67-56-1	methanol	530 ppm
71-43-2	benzene	52 ppm
74-87-3	chloromethane	150 ppm
75-07-0	acetaldehyde	45 ppm
75-56-9	propylene oxide	73 ppm
98-82-8	cumene	50 ppm
108-88-3	toluene	67 ppm
· ***PAC-2:***		
872-50-4	N-methyl-2-pyrrolidone	32 ppm
121-44-8	triethylamine	170 ppm
75-21-8	ethylene oxide	45 ppm
123-91-1	1,4-dioxane	320 ppm
50-00-0	formaldehyde	14 ppm

67-56-1	methanol	2,100 ppm
71-43-2	benzene	800 ppm
74-87-3	chloromethane	910 ppm
75-07-0	acetaldehyde	270 ppm
75-56-9	propylene oxide	290 ppm

98-82-8	cumene	300 ppm
108-88-3	toluene	560 ppm
· **PAC-3:**		
872-50-4	N-methyl-2-pyrrolidone	190 ppm
121-44-8	triethylamine	1,000 ppm
75-21-8	ethylene oxide	200 ppm
123-91-1	1,4-dioxane	760 ppm
50-00-0	formaldehyde	56 ppm
67-56-1	methanol	7200* ppm
71-43-2	benzene	4000* ppm
74-87-3	chloromethane	3,000 ppm
75-07-0	acetaldehyde	840 ppm
75-56-9	propylene oxide	870 ppm
98-82-8	cumene	730 ppm
108-88-3	toluene	3700* ppm

SECTION 7: HANDLING AND STORAGE

Handling

· ***Precautions for safe handling***
Ensure good ventilation/exhaust at the workplace.
Open and handle receptacle with care.
Avoid contact with skin, eyes and clothing. Avoid breathing vapor or mist. Wash after handling.

· ***Information about protection against explosions and fires:*** *Pay attention to the general rules of internal fire prevention.*

· ***Conditions for safe storage, including any incompatibilities***

· ***Storage:***

· ***Requirements to be met by storerooms and receptacles:***
Recommended ideal storage temperature range: 59 - 77 degrees F. Product should not be stored below 40 degrees or above 110 degrees F.
Material can increase in viscosity if stored at lower temperatures for an extended period of time.

· ***Information about storage in one common storage facility:*** *Store away from foodstuffs.*

· ***Further information about storage conditions:***
Protect from frost.
Keep container tightly sealed.

· ***Specific end use(s)*** *No further relevant information available.*

SECTION 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:**	
872-50-4 N-methyl-2-pyrrolidone	
TLV	BEI
WEEL	Long-term value: 10 ppm Skin

121-44-8 triethylamine	
PEL	Long-term value: 100 mg/m³, 25 ppm
TLV	Short-term value: 4.14 mg/m³, 1 ppm Long-term value: 2.07 mg/m³, 0.5 ppm Skin

· **Ingredients with biological limit values:**

872-50-4 N-methyl-2-pyrrolidone	
BEI	100 mg/L Medium: urine Time: end of shift Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone

· **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.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
Gases fumes and aerosols should not be inhaled.
· **Breathing equipment:**
In case of inadequate ventilation or high vapor concentration, wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator as needed. Observe OSHA regulations for respirator use (29 CFR 1910.134).
· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
The following glove types are recommended: neoprene, nitrile rubber, PVC or butyl rubber. Thin, disposable latex gloves should be avoided for repeated or long term handling of the material. Recommended thickness of the glove material: 5 - 6 mil
Selection of the glove material should be based on the consideration of penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend 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 can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:**

Tightly sealed goggles

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

· **Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**

Form:	Viscous
Color:	Opaque
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.

· **pH-value at 20 °C (68 °F):**	8
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>100 °C (>212 °F)
· **Flash point:**	>100 °C (>212 °F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not self-igniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure:**	Not determined.
· **Density at 20 °C (68 °F):**	1.05 g/cm³ (8.76225 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Dispersible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic at 20 °C (68 °F):	11,000 mPas
Kinematic:	Not determined.
· **Solvent content:**	
Organic solvents:	8.9 %
VOC content:	8.87 % 93.1 g/l / 0.78 lb/gal
Solids content:	43.0 %
· **Other information**	No further relevant information available.

SECTION 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.
· **Conditions to avoid** Direct sunlight, extremely low or high temperatures, ignition sources and incompatible materials
· **Incompatible materials:**
Acids and cationic material will cause the product to seperate. Strong oxidizing agents. Avoid nitrosating agents.
· **Hazardous decomposition products:**
Combustion of the dried polymer may release: Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen and traces of HCN.

SECTION 11: TOXICOLOGICAL INFORMATION

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

· **LD/LC50 values that are relevant for classification:**

872-50-4 N-methyl-2-pyrrolidone		
Oral	LD50	3,914 mg/kg (rat)
Dermal	LD50	8,000 mg/kg (rabbit)

· **Primary irritant effect:**
· **on the skin:** Skin irritation may occur with overexposure.
· **on the eye:** Eye irritation may occur with overexposure.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
75-21-8	ethylene oxide	1
123-91-1	1,4-dioxane	2B
50-00-0	formaldehyde	1
71-43-2	benzene	1
74-87-3	chloromethane	3
75-07-0	acetaldehyde	2B
75-56-9	propylene oxide	2B
98-82-8	cumene	2B
108-88-3	toluene	3

· NTP (National Toxicology Program)		
75-21-8	ethylene oxide	K
123-91-1	1,4-dioxane	R
50-00-0	formaldehyde	K
71-43-2	benzene	K
75-07-0	acetaldehyde	R
75-56-9	propylene oxide	R
98-82-8	cumene	R

· OSHA-Ca (Occupational Safety & Health Administration)	
75-21-8	ethylene oxide
50-00-0	formaldehyde
71-43-2	benzene

SECTION 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 1 (self-assessment): slightly hazardous for water.
Avoid transfer into the environment.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

· ***Waste treatment methods***

· ***Recommendation:*** *Smaller quantities can be disposed of with household waste.*

· ***Uncleaned packagings:***

Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

UN-Number	Void
UN-proper shipping names	Void
Transport hazard class(es)	Void
Packing group	Void
Environmental hazards	
Marine pollutant:	no
Special precautions for user	Not Applicable
Transport in bulk according to AnnexII of MARPOL73/78 and the IBC Code:	Not Applicable

SECTION 15: REGULATORY INFORMATION

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

Sara

· ***Section 355 (extremely hazardous substances):***	
75-21-8	*ethylene oxide*
50-00-0	*formaldehyde*
75-56-9	*propylene oxide*
· ***Section 313 (Specific toxic chemical listings):***	
All ingredients are listed.	
· ***TSCA (Toxic Substances Control Act):***	
All components have the value ACTIVE.	
· ***Hazardous Air Pollutants***	
121-44-8	*triethylamine*
75-21-8	*ethylene oxide*
123-91-1	*1,4-dioxane*
50-00-0	*formaldehyde*
67-56-1	*methanol*
71-43-2	*benzene*
74-87-3	*chloromethane*
75-07-0	*acetaldehyde*
75-56-9	*propylene oxide*
98-82-8	*cumene*
108-88-3	*toluene*

· ***Proposition 65***

· ***Chemicals known to cause cancer:***	
75-21-8	*ethylene oxide*
123-91-1	*1,4-dioxane*
50-00-0	*formaldehyde*
71-43-2	*benzene*
75-07-0	*acetaldehyde*

75-56-9	propylene oxide
98-82-8	cumene
· **Chemicals known to cause reproductive toxicity for females:**	
75-21-8	ethylene oxide
· **Chemicals known to cause reproductive toxicity for males:**	
75-21-8	ethylene oxide
71-43-2	benzene
74-87-3	chloromethane
· **Chemicals known to cause developmental toxicity:**	
872-50-4	N-methyl-2-pyrrolidone
75-21-8	ethylene oxide
67-56-1	methanol
71-43-2	benzene
74-87-3	chloromethane
108-88-3	toluene

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**		
75-21-8	ethylene oxide	CaH
123-91-1	1,4-dioxane	L
50-00-0	formaldehyde	B1
71-43-2	benzene	A, K/L
74-87-3	chloromethane	D, CBD
75-07-0	acetaldehyde	B2
75-56-9	propylene oxide	B2
98-82-8	cumene	D, CBD
108-88-3	toluene	II
· **TLV (Threshold Limit Value established by ACGIH)**		
121-44-8	triethylamine	A4
75-21-8	ethylene oxide	A2
123-91-1	1,4-dioxane	A3
50-00-0	formaldehyde	A2
71-43-2	benzene	A1
74-87-3	chloromethane	A4
75-07-0	acetaldehyde	A3
75-56-9	propylene oxide	A3
108-88-3	toluene	A4
· **NIOSH-Ca (National Institute for Occupational Safety and Health)**		
75-21-8	ethylene oxide	
123-91-1	1,4-dioxane	
50-00-0	formaldehyde	
71-43-2	benzene	
74-87-3	chloromethane	
75-07-0	acetaldehyde	
75-56-9	propylene oxide	

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

· ***Hazard pictograms***

GHS07 GHS08

· ***Signal word*** *Danger*

· ***Hazard-determining components of labeling:***
N-methyl-2-pyrrolidone

· ***Hazard statements***
Causes skin irritation.
Causes serious eye irritation.
May damage fertility or the unborn child.

· ***Precautionary statements***
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***Chemical safety assessment:*** *A Chemical Safety Assessment has not been carried out.*

SECTION 16: OTHER INFORMATION

· ***Abbreviations and acronyms:***

ACGIH: American Conference of Governmental Industrial Hygienists 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) VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic 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

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Repr. 1B: Reproductive toxicity – Category 1B

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.

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Department issuing M(M)SDS: ***EH&S Delivery***
Contact: ***Customer Service 989-725-5100***

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