MICHELMAN®

SAFETY DATA SHEET

Classification according to the regulation OSHA 29 CFR 1900.1200 HCS 2012

Issuing Date 03-Nov-2014 **Revision date** 03-Nov-2014 **Revision Number** 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product name Wax Resist
Product code AC-302

Recommended use of the chemical and restrictions on use

Recommendations on Use Ceramic glaze resist
Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Michelman, Inc.
9080 Shell Road
Cincinnati, Ohio 45236
(513)793-7766

Emergency Telephone Number

Emergency Telephone CHEMTREC: +1-703-527-3887 (INTERNATIONAL)
1-800-424-9300 (NORTH AMERICA)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Signal Word None

Hazard statements None

Pictograms None

Precautionary Statements - Prevention
None

Hazards Not Otherwise Classified (HNOC)
Not applicable

OTHER INFORMATION
None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation Anionic paraffin/polyethylene wax emulsion.

Michelman formulas are confidential and proprietary. Therefore, a percent range is provided for the concentration of each classified component in this mixture.

The product contains no substances known to be hazardous to health in concentrations which need to be taken into account

4. FIRST AID MEASURES

FIRST AID MEASURES

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Skin contact	Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Ingestion	Rinse mouth. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects	No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which shall not be used for safety reasons
Keep away from heat and sources of ignition.

Specific hazards arising from the chemical
No information available.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
Environmental precautions	Do not allow material to contaminate ground water system.
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling	Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible Products	None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face Protection	Tightly fitting safety goggles.
Skin and body protection	Long sleeved clothing. Protective gloves.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	liquid
Appearance	cream
Odor	No information available
Freezing Point	0 °C
Odor Threshold	No information available
Vapor Pressure	No information available
Vapor Density	No information available
pH	8.5-9.5
Density	8.07
Melting/Freezing Point	no data available
Boiling Point/Boiling Range	No data available
Flash Point	Not flammable
Evaporation Rate	no data available
Flammability (solid, gas)	no data available
Flammability Limits in Air	
Upper Flammability Limit	No information available
Lower Flammability Limit	No information available

Specific Gravity	0.970
Water Solubility	no data available
Partition Coefficient: n-octanol/water	No information available
Autoignition Temperature	no data available
Decomposition Temperature	No information available
Viscosity	<1000 cps

10. STABILITY AND REACTIVITY

Reactivity
No data available.

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to avoid
Extremes of temperature and direct sunlight.

Incompatible materials
None known based on information supplied.

Hazardous decomposition products
None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Not an expected route of exposure.
Eye contact	There is no data available for this product.
Skin contact	There is no data available for this product.
Ingestion	There is no data available for this product.

Acute toxicity

Component Information	No information available

Information on toxicological effects

Symptoms	No information available.

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

Carcinogenicity	Contains no ingredients above reportable quantities listed as a carcinogen
Irritation	No information available.
Sensitization	No information available.

Mutagenic Effects	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration Hazard	No information available.

Numerical measures of toxicity - Product Information
The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	16186 mg/kg
ATEmix (dermal)	16976 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

39.33123% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability	No information available.
Mobility	No information available
Bioaccumulation	No information available

Other adverse effects

Endocrine system	None known

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.
Contaminated Packaging	Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA (USA)	Complies

DSL (Canada)	Complies
EINECS (Europe)	Complies
ENCS (Japan)	Complies
IECSC (China)	Complies
KECL (Korea)	Complies
PICCS (Philippines)	Complies
AICS (Australia)	Complies
ERMA (New Zealand)	Complies
Taiwan	This product complies with TECS

WHMIS Hazard Class
Non-controlled

Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
SODIUM HYDROXIDE 1310-73-2	1000 lb			X

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) and Volatile Organic Compounds (VOCs) (see 40 CFR 61)

Chemical name	CAS-No	Weight %	HAPS data	Volatile organic compounds	Class 1 Ozone Depletors	Class 2 Ozone Depletors
PROPYLENE GLYCOL	57-55-6	2.12		Present		
DIPROPYLENE GLYCOL	25265-71-8	.064		Present		

CERCLA

Chemical name	Hazardous Substances Reportable Quantities	Extremely Hazardous Substances RQs	RQ
SODIUM HYDROXIDE 1310-73-2	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

California Prop. 65
This product does not contain any Proposition 65 chemicals

16. OTHER INFORMATION

HMIS **Health hazard** 1 **Flammability** 0 **Stability** 0 **PPE** B

Prepared by Michelman, Inc.

Revision date 03-Nov-2014

Reason for revision No information available

Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Material Safety Data Sheet