

SAFETY DATA SHEET

Classification according to the regulation OSHA 29 CFR 1910.1200 HCS 2012

Issuing Date 29-Aug-2018

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Revision Number 8

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

Product Identifier

Product name MICHEMCLEAN 1188
Product code MCL1188

Recommended use of the chemical and restrictions on use

Recommendations on Use Industrial use
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: +1-703-741-5970 (INTERNATIONAL)
1-800-424-9300 (NORTH AMERICA)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2
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Signal word WARNING

Hazard statements Causes serious eye irritation

Symbols/Pictograms



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

Hazards Not Otherwise Classified (HNOC)

Not applicable

OTHER INFORMATION

Causes mild skin irritation

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Chemical name	CAS No.	Weight-%	GHS Classification
Trade secret		1-4	Acute Oral 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Acute 2 (H401) Aquatic Chronic 3 (H412)

4. FIRST AID MEASURES

FIRST AID MEASURES

- Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
- Skin contact** Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
- Inhalation** Remove 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 and 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 must not be used for safety reasons

None.

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. Avoid contact with skin and eyes. Use personal protective equipment as required.
Environmental precautions	Do not allow into any sewer, on the ground or into any body of water.
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. Avoid contact with skin and eyes. Use personal protective equipment as required.
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Conditions for safe storage, including any incompatibilities

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Exposure guidelines - U.S.</u>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	Tight sealing safety goggles.
Skin and body protection	Long sleeved clothing. Protective gloves.
Respiratory protection	No special protective equipment required.
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	clear
Odor	No information available
Freezing Point	0 °C
Odor Threshold	No information available
Vapor Pressure	No information available
Vapor Density	No information available

pH	8.5-10.5 No data available
Density	No data available
Melting Point / Melting Range	No information available
Boiling Point / Boiling Range	No data available
Flash Point	Not flammable
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Flammability Limit in Air	
Upper Flammability Limit	No information available
Lower Flammability Limit	No information available
Specific Gravity	No information available
Water Solubility	No data available
Partition Coefficient: n-octanol/water	No information available
Autoignition Temperature	No data available
Decomposition Temperature	No information available
Viscosity	1-5 cps

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Do not freeze

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

Inhalation	Not an expected route of exposure.
Eye contact	Moderately irritating to the eyes.
Skin contact	May cause skin irritation and/or dermatitis.
Ingestion	No known effect based on information supplied.

Acute toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Trade secret	> 2000 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms None known.

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 Irritating to eyes. May cause skin irritation.

Sensitization None known based on information supplied.

Mutagenic Effects None known based on information supplied.

Reproductive toxicity None known based on information supplied.

STOT - single exposure None known based on information supplied

STOT - repeated exposure None known based on information supplied.

Aspiration Hazard None known based on information supplied.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 49205 mg/kg

ATEmix (dermal) 55556 mg/kg

ATEmix (inhalation-dust/mist) 31673.3 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

0.17486 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability Persistence and degradability is not known based on information supplied.

Mobility The mobility of this product has not been determined

Bioaccumulation Bioaccumulation potential is not known based on information supplied

Other adverse effects

Endocrine system None known

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes 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

ENCS (Japan) Complies

IECSC (China) Complies

KECL (Korea) Complies

PICCS (Philippines) Complies

AICS (Australia) Complies

ERMA (New Zealand) Complies

Taiwan Complies

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 Yes

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
FORMALDEHYDE 50-00-0	100 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-%	VOC chemical
FORMALDEHYDE	50-00-0	.0035	Yes

Chemical name	CAS No.	Weight-%	HAPS chemical
FORMALDEHYDE	50-00-0	.0035	Yes

CERCLA

Chemical name	Hazardous Substances Reportable Quantities	Extremely Hazardous Substances RQs
FORMALDEHYDE 50-00-0	100 lb	100 lb

16. OTHER INFORMATION

HMIS Health hazard 2 Flammability 0 Stability 0 PPE B

Prepared by Michelman, Inc.

Revision date 29-Aug-2018

Reason for revision No information available

Disclaimer

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California Proposition 65



WARNING! This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Chemical name	California Proposition 65
FORMALDEHYDE 50-00-0	Carcinogen