

SAFETY DATA SHEET

Classification according to the regulation OSHA 29 CFR 1900.1200 HCS 2012

Issuing Date 29-Jul-2014

Revision date 29-Jul-2014

Revision Number 3

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

Product Identifier

Product name MICHEM ILP 040
Product code ILP040

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: +1-703-527-3887 (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 Primer for digital printing.

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 eye irritation persists, consult a specialist. |
| Skin contact | Wash off immediately with plenty of water for at least 15 minutes. 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 container tightly closed. Keep from freezing. |
|----------------|--|

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

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

| | |
|------------------------------------|--------------------------|
| Physical State | liquid |
| Appearance | yellow |
| Odor | ammoniacal |
| Freezing Point | 0 °C |
| Odor Threshold | No information available |
| Vapor Pressure | No information available |
| Vapor Density | No information available |
| pH | 8 - 9 |
| Density | 0.99 - 1.01 |
| 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 | 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 | < 100 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) | 489716 mg/kg |
| ATEmix (dermal) | 509305 mg/kg |

12. ECOLOGICAL INFORMATION

Ecotoxicity

26.24275% of the mixture consists of component(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 |

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 | 4.084 | | Present | | |
| DIPROPYLENE GLYCOL | 25265-71-8 | .082 | | 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 29-Jul-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