

## Safety Data Sheet acc. to OSHA HCS

Printing date 04/27/2016

Reviewed on 04/27/2016

### 1 Identification

· **Product identifier**

- Trade name: METALNOX M6386
- Application of the substance / the mixture: Cleaning agent/ Cleaner

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

- Manufacturer/Supplier:  
KYZEN  
430 Harding Industrial Drive  
NASHVILLE, TN 37211 USA  
P: 1-800-845-5524  
www.KYZEN.com
- Information department: Product safety department
- Emergency telephone number:  
CHEMTREC  
Within the USA and Canada: 1-800 424-9300  
Outside the USA and International: +1-703-527-3887

### 2 Hazard(s) identification

· **Classification of the substance or mixture**



GHS07

- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2A H319 Causes serious eye irritation.
- Flam. Liq. 4 H227 Combustible liquid.

· **Label elements**

- GHS label elements  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



GHS07

- Signal word Warning
- Hazard statements  
Combustible liquid.  
Causes skin irritation.  
Causes serious eye irritation.
- Precautionary statements  
Keep away from flames and hot surfaces. – No smoking.  
Wear protective gloves / eye protection / face protection.

(Contd. on page 2)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 04/27/2016

Reviewed on 04/27/2016

Trade name: METALNOX M6386

(Contd. of page 1)

Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### · Classification system:

- NFPA ratings (scale 0 - 4)



Health = 1

Fire = 2

Reactivity = 0

- HMIS-ratings (scale 0 - 4)



HEALTH 1 Health = 1

FIRE 2 Fire = 2

REACTIVITY 0 Reactivity = 0

#### · Other hazards

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

### 3 Composition/information on ingredients

#### · Chemical characterization: Mixtures

- Description: Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:

5131-66-8	3-butoxypropan-2-ol	≥90%
111109-77-4	Dipropylene glycol dimethyl ether	≤10%

### 4 First-aid measures

#### · Description of first aid measures

- After inhalation: In case of unconsciousness place patient stably in 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 No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

US  
(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 04/27/2016

Reviewed on 04/27/2016

Trade name: METALNOX M6386

(Contd. of page 2)

## 5 Fire-fighting measures

- **Extinguishing media**
  - Suitable extinguishing agents: CO<sub>2</sub>, 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: No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - 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.

## 7 Handling and storage

- **Handling:**
  - Precautions for safe handling
    - Ensure good ventilation/exhaustion at the workplace.
    - Prevent formation of aerosols.
  - Information about protection against explosions and fires: Protect from heat.
- **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.
      - Protect from heat and direct sunlight.
- **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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
    - 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.

(Contd. on page 4)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 04/27/2016

Reviewed on 04/27/2016

Trade name: METALNOX M6386

(Contd. of page 3)

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 on consideration of the 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

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- General Information

- Appearance:

- Form:

Liquid

- Color:

Colorless

- Odor:

Characteristic

- Odour threshold:

Not determined.

- pH-value:

Not determined.

- Change in condition

- Melting point/Melting range:

Undetermined.

- Boiling point/Boiling range:

161 °C (322 °F)

- Flash point:

61 °C (142 °F) (Tag Closed Cup)

- Flammability (solid, gaseous):

Not applicable.

- Decomposition temperature:

Not determined.

- Auto igniting:

Product is not selfigniting.

- Danger of explosion:

Not determined.

(Contd. on page 5)

US

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 04/27/2016

Reviewed on 04/27/2016

Trade name: METALNOX M6386

(Contd. of page 4)

- |  |  |
|--|--|
| · Explosion limits:                        |  |
| · Lower:                                   | Not determined.                            |
| · Upper:                                   | Not determined.                            |
| · Vapor pressure at 20 °C (68 °F):         | 1.3 hPa (1 mm Hg)                          |
| · Density at 20 °C (68 °F):                | 0.88 g/cm <sup>3</sup> (7.344 lbs/gal)     |
| · Relative density                         | Not determined.                            |
| · Vapour density                           | Not determined.                            |
| · Evaporation rate                         | Not determined.                            |
| · Solubility in / Miscibility with         |  |
| · Water:                                   | Slightly soluble.                          |
| · Partition coefficient (n-octanol/water): | Not determined.                            |
| · Viscosity:                               |  |
| · Dynamic:                                 | Not determined.                            |
| · Kinematic:                               | Not determined.                            |
| · <b>Other information</b>                 | No further relevant information available. |

## 10 Stability and reactivity

- **Reactivity**
  - 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:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
  - Acute toxicity:
    - Primary irritant effect:
      - on the skin: Irritant to skin and mucous membranes.
      - on the eye: Irritating effect.
    - 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)
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None of the ingredients is listed.
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· NTP (National Toxicology Program)
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None of the ingredients is listed.
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(Contd. on page 6)

US

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(Contd. of page 5)

· OSHA-Ca (Occupational Safety &amp; 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 1 (Self-assessment): slightly hazardous for water
    - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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.

## 14 Transport information

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b>   |                 |
| · DOT, ADR, ADN, IMDG, IATA  | Not Regulated   |
| · <b>UN proper shipping name</b>   |                 |
| · DOT, ADR, ADN, IMDG, IATA  | Not Regulated   |
| · <b>Transport hazard class(es)</b>  |                 |
| · DOT, ADR, ADN, IMDG, IATA  |                 |
| · Class  | Not Regulated   |
| · <b>Packing group</b>   |                 |
| · DOT, ADR, IMDG, IATA   | Not Regulated   |
| · <b>Environmental hazards:</b>  |                 |
| · Marine pollutant:  | No              |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |

(Contd. on page 7)

US

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Reviewed on 04/27/2016

Trade name: METALNOX M6386

(Contd. of page 6)

· UN "Model Regulation":

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## 15 Regulatory information

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

#### · Sara

· Section 355 (extremely hazardous substances):
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None of the ingredients is listed.
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· Section 313 (Specific toxic chemical listings):
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None of the ingredients is listed.
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- TSCA (Toxic Substances Control Act): All ingredients are listed.

- Proposition 65

· Chemicals known to cause cancer:
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None of the ingredients is listed.
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· Chemicals known to cause reproductive toxicity for females:
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None of the ingredients is listed.
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· Chemicals known to cause reproductive toxicity for males:
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None of the ingredients is listed.
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· Chemicals known to cause developmental toxicity:
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None of the ingredients is listed.
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#### · Carcinogenic categories

· EPA (Environmental Protection Agency)
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None of the ingredients is listed.
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· TLV (Threshold Limit Value established by ACGIH)
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None of the ingredients is listed.
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· NIOSH-Ca (National Institute for Occupational Safety and Health)
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None of the ingredients is listed.
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#### · GHS label elements

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

#### · Hazard pictograms



GHS07

#### · Signal word Warning

#### · Hazard statements

Combustible liquid.  
Causes skin irritation.  
Causes serious eye irritation.

#### · Precautionary statements

Keep away from flames and hot surfaces. – No smoking.  
Wear protective gloves / eye protection / face protection.

(Contd. on page 8)

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(Contd. of page 7)

Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO2, powder or water spray.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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

## 16 Other information

The information contained herein is based on available data from reliable sources and is accurate to the best of KYZEN Corporation's knowledge at the time of this publication. KYZEN makes no warranty, expressed or implied, of merchantability or fitness for a particular purpose, course of performance or usage of trade. The user is solely responsible for determining the suitability and completeness of such information for their particular application and for adopting appropriate safety precautions. Physical properties listed within are typical values based on samples tested and should not be construed as guaranteed analysis of any specific lot or as specifications for the product. This information is not intended to be all-inclusive as to the manner and conditions of use, handling and storage. Other factors may involve additional safety or performance considerations. This data is not to be taken as a warranty or representation for which KYZEN assumes legal or financial responsibility.

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- **Department issuing SDS:** Product safety department

- **Contact:** SDS Coordinator

- Date of preparation / last revision 04/27/2016 / -

- Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

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)

Flam. Liq. 4: Flammable liquids, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A