

# SAFETY DATA SHEET



**Date Issued :** 1/15/2009  
**MSDS No :** M6319US\_EU-GHS  
**Date Revised :** 1/17/2013  
**Revision No :** 9

## Metalnox M6319US

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

**PRODUCT NAME:** Metalnox M6319US

**GENERAL USE:** Cleaning agent

**CHEMICAL FAMILY:** Metalnox

**MANUFACTURER**

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Nashville, TN 37211

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9990 Maldegem, Belgium

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**DISTRIBUTOR**

**24 HR. EMERGENCY TELEPHONE NUMBERS**

**CANUTEC (Canadian Transportation) :**(613) 996 - 6666

**CHEMTREC (US Transportation) :**(800) 424 - 9300

### 2. HAZARDS IDENTIFICATION

**HAZARD DESIGNATION**

"Xi" - Irritant

R36/38: Irritating to eyes and skin.

**EMERGENCY OVERVIEW**

**PHYSICAL APPEARANCE:** Clear liquid.

**IMMEDIATE CONCERNS:** May be irritating to eyes, skin and mucous membranes if inhaled or swallowed.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Causes irritation.

**SKIN:** Causes irritation.

**INGESTION:** Harmful if swallowed.

**INHALATION:** Causes irritation.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Causes irritation.

**SKIN:** Causes irritation.

**INGESTION:** May be harmful if swallowed.

**INHALATION:** Causes irritation.

**ACUTE TOXICITY:** Avoid direct contact with eyes, skin and clothing. May be irritating to eyes and skin; may be harmful if inhaled or swallowed.

**CHRONIC EFFECTS:** No data established on product as a whole.

**CARCINOGENICITY:** None expected

**MUTAGENICITY:** None expected

**MEDICAL CONDITIONS AGGRAVATED:** May aggravate disorders of the skin, respiratory or nervous systems.

**ROUTES OF ENTRY:** Eyes, skin, inhalation and ingestion

**Metalnox M6319US****CANCER STATEMENT:** None expected**IRRITANCY:** Causes irritation.**WARNING CAUTION LABELS:** Avoid contact with skin, eyes and clothing. Avoid breathing mists and vapors. Avoid prolonged and repeated exposure. Use appropriate personal protective equipment. Do not eat, drink or smoke in handling areas.**COMMENTS HEALTH:** May be irritating to eyes, skin and mucous membranes if inhaled or swallowed.**HEALTH HAZARDS:** Causes irritation.**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS	EINECS	Classification	Wt. %
Potassium Hydroxide	1310-58-3	215-181-3	>2%:C	0.5 - 2

**COMMENTS:** This preparation is a proprietary blend of substances; no other component is hazardous as defined by OSHA (29CFR1910.1200) or classified as hazardous by ESIS according to Directive 1999/45/EC and its amendments and Annex 1 of Directive 67/548/EEC.**4. FIRST AID MEASURES****EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.**SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.**INGESTION:** Get immediate medical attention. If conscious and medical help is not readily available, give 1 to 2 glasses of water and keep at rest. Never attempt to give anything by mouth to an unconscious person.**INHALATION:** Move person to fresh air. If necessary, restore and support breathing. If breathing is difficult, give oxygen. Get immediate medical attention.**5. FIRE FIGHTING MEASURES****FLAMMABLE CLASS:** Non-flammable**FLAME PROPAGATION OR BURNING RATE OF SOLIDS:** Not established**GENERAL HAZARD:** None expected**EXTINGUISHING MEDIA:** Alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.**EXPLOSION HAZARDS:** Not established**FIRE FIGHTING PROCEDURES:** Use water spray to cool containers exposed to fire.**FIRE FIGHTING EQUIPMENT:** Firefighters should have eye protection and wear self-contained breathing apparatus.**FIRE EXPLOSION:** None expected**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition vapors will mainly consist of carbon; may contain particles of inorganic oxides and salts.**6. ACCIDENTAL RELEASE MEASURES****SMALL SPILL:** Clean up spills immediately, observing precautions in Protective Equipment section.**LARGE SPILL:** Pick up spill on sand, earth or other non-combustible absorbent material. Flush or wipe area with water to remove last traces. Collect wash water/material for disposal. Wear all appropriate personal protective equipment.**ENVIRONMENTAL PRECAUTIONS****WATER SPILL:** Avoid runoff into storm sewers and ditches which lead to waterways.**LAND SPILL:** Dike area to contain spill. Take precautions necessary to prevent contamination of ground and surface waters. Recover spilled material using an adsorbent like sawdust and sweep into closed containers for disposal. After all visible traces and ignitable vapors have been removed, thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal.**GENERAL PROCEDURES:** Immediately contact emergency personnel and keep unnecessary personnel away. Use suitable protective equipment (Section 8); follow all the fire fighting procedures (Section 5).**RELEASE NOTES:** See Section 13 for waste disposal.**SPECIAL PROTECTIVE EQUIPMENT:** See Section 8 for personal protective equipment.**7. HANDLING AND STORAGE**

## Metalnox M6319US

**GENERAL PROCEDURES:** Follow practices consistent with the handling and use of industrial chemicals.

**HANDLING:** Avoid contact with skin, eyes and clothing. Avoid breathing mists and vapors. Avoid prolonged and repeated exposure. Use appropriate personal protective equipment. Do not eat, drink or smoke in handling areas.

**STORAGE:** Store in cool, dry, well ventilated areas out of direct sunlight. Keep separate from oxidizers and strong acids. Keep containers tightly closed. Do not reuse empty containers.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use only in a well ventilated area.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear appropriate protective eyeglasses or chemical safety goggles as directed by OSHA's eye and face protection regulations in 29CFR1910.133 or European Standard EN166.

**SKIN:** Wash thoroughly after handling.

**RESPIRATORY:** General ventilation and local exhaust are required to minimize or eliminate exposure to mists and vapors. When used in self-contained, well ventilated industrial cleaning devices, personal respiratory protection is not typically required. For extended direct exposure to mist or vapors, use a NIOSH approved organic respirator as described in OSHA 29CFR 1910.134 or European Standard EN149.

**PROTECTIVE CLOTHING:** No special clothing is needed.

**WORK HYGIENIC PRACTICES:** Do not eat, drink or smoke when handling industrial materials.

**OTHER USE PRECAUTIONS:** Do not mix with nitrites due to the possible formation of nitrosoamines.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**FLASHPOINT AND METHOD:** None to boiling

**PHYSICAL STATE:** Liquid

**ODOR:** Mild

**APPEARANCE:** Clear

**COLOR:** Straw

**pH:** 12.7 to 13.7

**VAPOR PRESSURE:** Not determined

**VAPOR DENSITY:** Not determined

**BOILING POINT:** 103°C (218°F)

**SOLUBILITY IN WATER:** Soluble

**SPECIFIC GRAVITY:** 1.067

**VOC:** < 1.000 g/L EPA Method 24

**Notes:** Vapor Pressure of VOC Components: 0.50-2.00 mmHg at 20C

**COMMENTS:** These physical properties are typical values based on material tested but may vary from sample to sample. These values should not be construed as guaranteed analysis of any specific lot or as specifications for the product.

### 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**CONDITIONS TO AVOID:** Heat, sparks, flame or other sources of ignition.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Do not mix with nitrites due to the possible formation of nitrosoamines.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition vapors will mainly consist of carbon; may contain particles of inorganic oxides and salts.

**INCOMPATIBLE MATERIALS:** Strong acids and oxidizers

### 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** Causes irritation.

**SKIN EFFECTS:** Causes irritation.

**CHRONIC:** No data established on product as a whole.

#### CARCINOGENICITY

**Metalnox M6319US****IARC:** None**NTP:** None**OSHA:** None**REPEATED DOSE EFFECTS:** No data established on product as a whole.**IRRITATION:** No data established on product as a whole.**CORROSIVITY:** No data established on product as a whole.**SENSITIZATION:** None expected**REPRODUCTIVE EFFECTS:** No data established on product as a whole.**TERATOGENIC EFFECTS:** No data established on product as a whole.**MUTAGENICITY:** No data established on product as a whole.**12. ECOLOGICAL INFORMATION****ENVIRONMENTAL DATA:** No data established on product as a whole.**ECOTOXICOLOGICAL INFORMATION:** No data established on product as a whole.**BIOACCUMULATION/ACCUMULATION:** No data established on product as a whole.**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHOD:** Use approved treatment transporters and disposal sites.**EMPTY CONTAINER:** Keep containers tightly closed when not in use; do not reuse empty containers.**EUROPEAN WASTE CATALOGUE:** Number 070601: Aqueous washing liquids and mother liquors**14. TRANSPORT INFORMATION****ROAD AND RAIL (ADR/RID)****PROPER SHIPPING NAME:** Compounds, Cleaning liquid, Non-hazardous, Non-flammable**KEMLER NUMBER:** 000/NA**HAZARD CLASS:** 000 Not regulated**AIR (ICAO/IATA)****SHIPPING NAME:** Compounds, Cleaning liquid, Non-hazardous, Non-flammable**PRIMARY HAZARD CLASS/DIVISION:** 000 Not regulated**VESSEL (IMO/IMDG)****SHIPPING NAME:** Compounds, Cleaning liquid, Non-hazardous, Non-flammable**PRIMARY HAZARD CLASS/DIVISION:** 000 Not regulated**COMMENTS:** Harmonized Code: US 3402.90.5030 and MY 3402.90.990 Cleaning Preparations**15. REGULATORY INFORMATION****EUROPEAN COMMUNITY**

**Metalnox M6319US****EEC LABEL SYMBOL AND CLASSIFICATION**

"Xi" - Irritant

R36/38: Irritating to eyes and skin.

S1/2: Keep locked up and out of reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**INTERNATIONAL REGULATIONS**

**(VbF) CLASSIFICATION:** Not dangerous according to VbF.

**(WGK) CLASSIFICATION:** 1, self classified

**RoHS:** Compliant

**16. OTHER INFORMATION**

**APPROVED BY:** Kyzen Health & Safety

**PREPARED BY:** JAQ

**REVISION SUMMARY:** This MSDS replaces the 5/23/2011 MSDS. Revised: **Section 1:** REASON FOR ISSUE.

**MANUFACTURER DISCLAIMER:** The data contained herein is based on information currently available to Kyzen Corporation and is believed to be factual. As a formulator and blender, Kyzen Corporation does not manufacture the raw materials used in this product and correspondingly relies on information provided to Kyzen Corporation from material safety data sheets on the specific raw materials in the construction of this document. Such information is to the best of Kyzen Corporation's knowledge and is believed to be accurate and reliable as of the date of this document. However, no representation, warranty or guarantee is made as to the accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular application. This information is not intended to be all-inclusive as to the manner and conditions of use, handling and storage. Other factors may involve other or additional safety or performance considerations. This data is not to be taken as a warranty or representation of which Kyzen Corporation assumes legal responsibility.


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## INITIAL SUBSTANCE COSHH ASSESSMENT

Department		MSDS Ref No	UW287	Assessment Ref	S287-1
Process					
Chemical Name		Risk Phrases			
Metalnox M6319US		R36/38 Irritating to eyes and skin.			
Classification		Skin and Eye Irritant			
Hazard Group		A		Exposure Limits - Dusts	N/a
				Exposure Limits - Liquid	50 – 500 ppm
Least Hazardous Substances		More Hazardous Substances		Special Case	
A		B		C	D
				E	

Exposure Potential	
Frequency of Use	Daily, Hourly
Physical Properties	Liquid
Max Amount Used	Medium – 200 Litres
Exposure Predictor	Litres – High Volatility
Control Measures	2 – engineering control
Predicted Concentration (COSHH ESSENTIALS)	
Dust mg.m <sup>-3</sup>	Liquid ppm
N/a	5 – 50 ppm

Personal Protective Equipment		Answer	Type
1	Are gloves required to be worn	Yes	Rubber
2	Is protective clothing required	No	
3	Is safety eyewear required	Yes	Goggles
4	Is safety footwear required	Yes	
5	Is head protection required	No	
6	Is hearing protection required when working in this area	Yes	
7	Is respiratory protective equipment worn currently	No	

Initial Substance Assessment Conclusion	Answer			
The hazards associated with this material, the amount of material used and the frequency and duration of the activity result an extremely low likelihood that a risk to health exists when using this material under open conditions or on the open bench and using good work practice.				
The amount being used and the frequency and duration of exposure indicate that if used under the control of local exhaust ventilation the risks to health would be reduced to well below the exposure limits and that the potential risks to health would be low.	✓			
Due to the hazards associated with this material the PPE identified above must be worn when handling this material in order to prevent direct skin contact. If PPE is worn in accordance with manufacturers recommendations the risks to health will be adequately controlled.	✓			
The hazards associated with this material indicate that a detailed risk assessment must be completed. <b>Do not use this material unless a detailed COSHH Assessment has been completed</b>				
Assessor Name	Signature	Last Assessment Date	Assessment Reviewed Date	Next Review Date
D. Cuthbert		07/11/2016	-	07/11/2019