SECTION 1. IDENTIFICATION

Product name : MasterLife CI 222 Plus
Product code : 000000000056301835 000000000056301835

Manufacturer or supplier’s details
Company name of supplier : Master Builders-Admixtures US, LLC
Address : 23700 CHAGRIN BLVD Beachwood OH 44122
Emergency telephone : ChemTel: +1-813-248-0585 USA: +1-800-255-3924 Contract Number MIS9240420

Recommended use of the chemical and restrictions on use
Recommended use : Product for construction chemicals
Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200
Skin corrosion/irritation : Category 1B
Serious eye damage/eye irritation : Category 1
Specific target organ toxicity - single exposure : Category 3
Short-term (acute) aquatic hazard : Category 3

GHS label elements
Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H335 May cause respiratory irritation.
H314 Causes severe skin burns and eye damage.
H402 Harmful to aquatic life.

Precautionary Statements : Prevention:
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P271 Use only outdoors or in a well-ventilated area.
P260 Do not breathe dust or mist.
P273 Avoid release to the environment.
P264 Wash face, hands and any exposed skin thoroughly after handling.

Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/ doctor/
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P363 Wash contaminated clothing before reuse.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : No data available.

Components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-aminoethanol</td>
<td>141-43-5</td>
<td>&gt;= 15 - &lt; 20</td>
</tr>
<tr>
<td>Butyl oleate</td>
<td>142-77-8</td>
<td>&gt;= 15 - &lt; 20</td>
</tr>
<tr>
<td>1,2-benzisothiazol-3(2H)-one</td>
<td>2634-33-5</td>
<td>&gt;= 0 - &lt; 0.1</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital. 
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
If swallowed: Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed

Notes to physician: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray
Foam
Dry powder
Carbon dioxide (CO2)

Unsuitable extinguishing media: High volume water jet

Specific hazards during fire fighting:
Do not allow run-off from fire fighting to enter drains or water courses.

Further information:
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters:
In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Use personal protective equipment.

Environmental precautions:
Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up:
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Pick up with suitable appliance and dispose of.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion:
Normal measures for preventive fire protection.
SAFETY DATA SHEET
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Advice on safe handling:
Avoid formation of aerosol.
Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage:
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions:
Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.
Protect from direct sunlight.

Materials to avoid:
Observe VCI storage rules.

Recommended storage temperature:
32 °F / 0 °C

Further information on storage stability:
Minimum storage temperature:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-aminoethanol</td>
<td>141-43-5</td>
<td>STEL value 6 ppm</td>
<td>ACGIHTLV</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA value 3 ppm</td>
<td>ACGIHTLV</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>REL value 3 ppm / 8 mg/m3</td>
<td>NIOSH</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL value 6 ppm / 15 mg/m3</td>
<td>NIOSH</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PEL 3 ppm / 6 mg/m3</td>
<td>29 CFR 1910.1000 (Table Z-1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 3 ppm</td>
<td>ACGIH</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL 6 ppm</td>
<td>ACGIH</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 3 ppm / 8 mg/m3</td>
<td>NIOSH REL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST 6 ppm / 15 mg/m3</td>
<td>NIOSH REL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 3 ppm / 6 mg/m3</td>
<td>OSHA Z-1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL 6 ppm / 15 mg/m3</td>
<td>OSHA P0</td>
<td></td>
</tr>
</tbody>
</table>
Engineering measures : No applicable information available.

Personal protective equipment
Respiratory protection : Wear a NIOSH-certified (or equivalent) respirator as necessary.
Hand protection
Remarks : Wear chemical resistant protective gloves. Protective glove selection must be based on the user's assessment of the workplace hazards.
Eye protection : Tightly fitting safety goggles (chemical goggles).
Skin and body protection : Impervious clothing
  Choose body protection according to the amount and concentration of the dangerous substance at the workplace.
Protective measures : Do not inhale dust/fumes/aerosols.
  Avoid contact with the skin, eyes and clothing.
  Avoid exposure - obtain special instructions before use.
  Handle in accordance with good building materials hygiene and safety practice.
  Wearing of closed work clothing is recommended.
Hygiene measures : When using do not eat or drink.
  When using do not smoke.
  Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Color : white
Odor : mild
Odor Threshold : No data available
pH : approx. 11.0 - 11.6
Melting point : No applicable information available.
Boiling point : approx. 212 °F / 100 °C
  (for a component of this mixture)
Flash point : Method: Flash-Point by Pensky-Martens Closed Cup Tester.
  No flash point - Measurement made up to the boiling point.
Evaporation rate : not determined
Flammability (solid, gas) : not flammable
Self-ignition : not self-igniting
Upper explosion limit / Upper flammability limit : No applicable information available.
Lower explosion limit / Lower flammability limit: No applicable information available.

Vapor pressure: No data available

Relative vapor density: Heavier than air.

Relative density: No applicable information available.

Density: approx. 1.018 g/cm³ (68 °F / 20 °C)

1.015 g/cm³ (122 °F / 50 °C)

Solubility(ies):
- Water solubility: soluble (68 °F / 20 °C)
- Solubility in other solvents: No applicable information available.

Partition coefficient: n-octanol/water: No data available

Autoignition temperature: not determined

Decomposition temperature: No decomposition if stored and handled as prescribed/indicated.

Viscosity:
- Viscosity, dynamic: not determined
- Viscosity, kinematic: No applicable information available.

Explosive properties:
- Not explosive
- Not explosive

Oxidizing properties: not fire-propagating

Sublimation point: No applicable information available.

Molecular weight: No data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity: No decomposition if stored and applied as directed.

Chemical stability: No decomposition if stored and applied as directed.

Possibility of hazardous reactions: No decomposition if stored and applied as directed.

Conditions to avoid: See SDS section 7 - Handling and storage.

Incompatible materials:
- Strong acids
- Strong bases
- Strong oxidizing agents
- Strong reducing agents

Hazardous decomposition products:
- No hazardous decomposition products if stored and handled as prescribed/indicated.
Acute toxicity
Not classified based on available information.

**Product:**
Acute oral toxicity : Remarks: No applicable information available.

Acute inhalation toxicity : Remarks: No applicable information available.

Acute dermal toxicity : Remarks: No applicable information available.

Skin corrosion/irritation
Causes severe burns.

Serious eye damage/eye irritation
Causes serious eye damage.

Respiratory or skin sensitization

Skin sensitization
Not classified based on available information.

**Respiratory sensitization**
Not classified based on available information.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.

Reproductive toxicity
Not classified based on available information.

**STOT-single exposure**
May cause respiratory irritation.

**STOT-repeated exposure**
Not classified based on available information.

Aspiration toxicity
Not classified based on available information.

**Further information**

**Product:**
Remarks : The product has not been tested. The statement has been derived from the properties of the individual components.
SAFETY DATA SHEET

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment
Acute aquatic toxicity : Harmful to aquatic life.

Components:

1,2-benzisothiazol-3(2H)-one:
M-Factor (Acute aquatic toxicity) : 1
M-Factor (Chronic aquatic toxicity) : 1

Persistence and degradability

Product:

Biodegradability : Remarks: Taking into consideration the properties of several ingredients, the product is estimated not to be readily biodegradable according to OECD classification.

Bioaccumulative potential

Components:

Butyl oleate:
Partition coefficient: n-octanol/water : log Pow: 9.49 (77 °F / 25 °C)
Method: other (calculated)

Mobility in soil
No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with national, state and local regulations.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not discharge into drains/surface waters/groundwater.

Contaminated packaging : Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the sub-
SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG
UN number : UN 2735
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S. (2-AMINOETHANOL/ETHANOLAMINE)
Class : 8
Packing group : II
Labels : 8

IATA-DGR
UN/ID No. : UN 2735
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S. (2-AMINOETHANOL/ETHANOLAMINE)
Class : 8
Packing group : II
Labels : Corrosive
Packing instruction (cargo aircraft) : 855
Packing instruction (passenger aircraft) : 851

IMDG-Code
UN number : UN 2735
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S. (2-AMINOETHANOL/ETHANOLAMINE)
Class : 8
Packing group : II
Labels : 8
EmS Code : F-A, S-B
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

49 CFR
UN/ID/NA number : UN 2735
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S. (2-AMINOETHANOL/ETHANOLAMINE)
Class : 8
Packing group : II
Labels : CORROSIVE
ERG Code : 153
Marine pollutant : no

Special precautions for user
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.
SECTION 15. REGULATORY INFORMATION

US State Regulations

Pennsylvania Right To Know
2-aminoethanol 141-43-5

New Jersey Right To Know
2-aminoethanol 141-43-5

California Prop. 65

WARNING: This product can expose you to chemicals including ethylene glycol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:
TSCA: On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

NFPA 704: HMIS® IV:

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

Special hazard

HEALTH
FLAMMABILITY
PHYSICAL HAZARD

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "**" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

29 CFR 1910.1000 (Table Z-1): OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR 1910.1000
ACGIH: USA. ACGIH Threshold Limit Values (TLV)
ACGIHTLV: American Conference of Governmental Industrial Hygienists - threshold limit values (US)
NIOSH: NIOSH Pocket Guide to Chemical Hazards (US)
NIOSH REL: USA. NIOSH Recommended Exposure Limits
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OSHA P0: USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

29 CFR 1910.1000 (Table Z-1) / PEL

ACGIH / TWA: Short-term exposure limit
ACGIH / STEL: Short-term exposure limit
ACGIHTLV / STEL value: Short Term Exposure Limit (STEL):
ACGIHTLV / TWA value: Time Weighted Average (TWA):
NIOSH / REL value: Recommended exposure limit (REL):
NIOSH / STEL value: Short Term Exposure Limit (STEL):
NIOSH REL / TWA: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA: 8-hour time weighted average
OSHA P0 / STEL: Short-term exposure limit
OSHA Z-1 / TWA: 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECX - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - International Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RO - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date: 11/16/2020
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