SECTION 1. IDENTIFICATION

Product name : MasterLife CI 222
Product code : 000000000050443384 000000000050443384
Other means of identification : No data available

Manufacturer or supplier's details
Company name of supplier : Master Builders Solutions Canada Inc.
Address : 1800 CLARK BLVD
          Brampton ON L6T 4M7
Emergency telephone : ChemTel: +1-813-248-0585;

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 the Hazardous Products Regulations
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.  

Storage:  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  

Disposal:  
P501 Dispose of contents/container to appropriate hazardous waste collection point.  

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>
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<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: None known.

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
SAFETY DATA SHEET

MasterLife CI 222

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.

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

0 °C

Further information on storage stability

Minimum storage temperature:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters
Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
---|---|---|---|---|
2-aminoethanol | 141-43-5 | STEL value | 6 ppm | ACGIHTLV |
 |  | TWA value | 3 ppm | ACGIHTLV |
 |  | REL value | 3 ppm 8 mg/m³ | NIOSH |
 |  | STEL value | 6 ppm 15 mg/m³ | NIOSH |
 |  | PEL | 3 ppm 6 mg/m³ | 29 CFR 1910.1000 (Table Z-1) |
 |  | STEL | 6 ppm 15 mg/m³ | CA AB OEL |
 |  | TWA | 3 ppm 7.5 mg/m³ | CA AB OEL |
 |  | TWA | 3 ppm | CA BC OEL |
 |  | STEL | 6 ppm | CA BC OEL |
 |  | TWA | 3 ppm | CA BC OEL |
 |  | STEL | 6 ppm 15 mg/m³ | CA BC OEL |
 |  | TWA | 3 ppm | ACGIHTLV |
 |  | STEL | 6 ppm | ACGIHTLV |

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 work place.

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.

Freezing point
: No applicable information available.

Boiling point
: approx. 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 (20 °C)
  1.015 g/cm³ (50 °C)

Solubility(ies)
Water solubility
: soluble (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.

SECTION 11. TOXICOLOGICAL INFORMATION

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.

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

Bioaccumulative potential:

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 substance/product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG
UN number
Proper shipping name

AMINES, LIQUID, CORROSIVE, N.O.S.
(2-AMINOETHANOL/ETHANOLAMINE)

Class
Packing group
Labels

8
II
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

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

TDG
UN number: UN 2735
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (2-AMINOETHANOL/ETHANOLAMINE)

Class: 8
Packing group: II
Labels: 8
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

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

SECTION 16. OTHER INFORMATION

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 -
MasterLife CI 222

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<th>SDS Number:</th>
<th>Date of last issue:</th>
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- **CA AB OEL**: Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
- **CA BC OEL**: Canada. British Columbia OEL
- **CA QC OEL**: Québec. Regulation respecting occupational health and safety; Schedule 1, Part 1: Permissible exposure values for airborne contaminants
- **NIOSH**: NIOSH Pocket Guide to Chemical Hazards (US)
- **29 CFR 1910.1000 (Table Z-1) / PEL**: Permissible exposure limit
- **ACGIH / TWA**: 8-hour, time-weighted average
- **ACGIH / STEL**: Short-term exposure limit
- **ACGIHTLV / STEL value**: Short Term Exposure Limit (STEL):
- **ACGIHTLV / TWA value**: Time Weighted Average (TWA):
- **CA AB OEL / TWA**: 8-hour Occupational exposure limit
- **CA AB OEL / STEL**: 15-minute occupational exposure limit
- **CA BC OEL / TWA**: 8-hour time weighted average
- **CA BC OEL / STEL**: short-term exposure limit
- **CA QC OEL / TWAEV**: Time-weighted average exposure value
- **CA QC OEL / STEV**: Short-term exposure value
- **NIOSH / REL value**: Recommended exposure limit (REL):
- **NIOSH / STEL value**: Short Term Exposure Limit (STEL):

**AICS - Australian Inventory of Chemical Substances**; **ANTT - National Agency for Transport by Land of Brazil**; **ASTM - American Society for the Testing of Materials**; **bw - Body weight**; **CMR - Carcinogen, Mutagen or Reproductive Toxicant**; **DIN - Standard of the German Institute for Standardisation**; **DSL - Domestic Substances List (Canada)**; **ECx - Concentration associated with x% response**; **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**; **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 Chemicals in China**; **IMDG - International Maritime Dangerous Goods**; **IMO - International Maritime Organization**; **ISHL - Industrial Safety and Health Law (Japan)**; **ISO - International Organisation for Standardization**; **KECI - Korea Existing Chemicals Inventory**; **LC50 - Lethal Concentration to 50 % of a test population**; **LD50 - Lethal Dose to 50% of a test population**; **MARPOL - International Convention for the Prevention of Pollution from Ships**; **n.o.s. - Not Otherwise Specified**; **Nch - Chilean Norm**; **NO(A)EC - No Observed (Adverse) Effect Concentration**; **NO(A)EL - No Observed (Adverse) Effect Level**; **NOELR - No Observable Effect Loading Rate**; **NOM - Official Mexican Norm**; **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**; **REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals**; **SADT - Self-Accelerating Decomposition Temperature**; **SDS - Safety Data Sheet**; **TCSI - Taiwan Chemical Substance Inventory**; **TDG - Transportation of Dangerous Goods**; **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**; **WHMIS - Workplace Hazardous Materials Information System**
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