SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
- Trade name: Corr-Ze™ 100
- Other means of identification: No other identifiers

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture:
  Surface cleaning
  Corrosion inhibitors
- Uses advised against: No further relevant information available.

1.3 Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier:
  Corrosion Innovations, LLC
  4020 Strawberry Road
  Pasadena, Texas 77504
  Phone: (713) 625-7531
  Email: jim@corrinnovations.com
  Website: www.corrinnovations.com

1.4 Emergency telephone number:
- ChemTel
  (800)255-3924 (North America)
  +1 (813)248-0585 (International)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).
  Skin Irrit. 2  H315 Causes skin irritation.
  Eye Dam. 1  H318 Causes serious eye damage.
  STOT SE 3  H335 May cause respiratory irritation.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  The product is classified and labelled according to the Globally Harmonized System within the United States.
  The product is classified and labelled according to the CLP regulation.
- Hazard pictograms
  GHS05 GHS07
- Signal word Danger
- Hazard-determining components of labelling:
  2-dimethylaminoethanol
- Hazard statements

(Cont'd. on page 2)
Safety Data Sheet  
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS  
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### Trade name: Corr-Ze™ 100

(Cont'd. from page 1)

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.

#### Precautionary statements

- **P261** Avoid breathing mist/vapours/spray.
- **P264** Wash skin thoroughly after handling.
- **P271** Use only outdoors or in a well-ventilated area.
- **P280** Wear protective gloves / eye protection.
- **P302+P352** IF ON SKIN: Wash with plenty of water.
- **P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- **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.
- **P332+P313** If skin irritation occurs: Get medical advice/attention.
- **P362+P364** Take off contaminated clothing and wash it before reuse.
- **P403+P233** Store in a well-ventilated place. Keep container tightly closed.
- **P405** Store locked up.
- **P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3 Other hazards

There are no other hazards not otherwise classified that have been identified.

#### Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

- **Components:**

<table>
<thead>
<tr>
<th>CAS:</th>
<th>EINECS:</th>
<th>Index number:</th>
<th>Reg.nr.:</th>
<th>2-dimethylaminoethanol</th>
<th>10-25%</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-01-0</td>
<td>203-542-8</td>
<td>603-047-00-0</td>
<td>01-2119492288-24-XXXX</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Additional information:** For the wording of the listed Hazard Statements refer to section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- **After inhalation:**
  Supply fresh air; consult doctor in case of complaints.  
  Provide oxygen treatment if affected person has difficulty breathing.

- **After skin contact:**
  Immediately wash with water and soap and rinse thoroughly.  
  If skin irritation continues, consult a doctor.

- **After eye contact:**
  Remove contact lenses if worn.

(Cont'd. on page 3)
Trade name: Corr-Ze™ 100

- Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
  - Rinse out mouth and then drink plenty of water.
  - Do not induce vomiting; call for medical help immediately.

**4.2 Most important symptoms and effects, both acute and delayed**

- Headache
- Coughing
- Irritating to respiratory system and skin.
- Irritating to eyes.
- Nausea
- Gastric or intestinal disorders when ingested.

**Hazards:**
- Causes serious eye damage.
- Danger of disturbed cardiac rhythm.

**4.3 Indication of any immediate medical attention and special treatment needed**

- Medical supervision for at least 48 hours.
- Monitor circulation.
- If necessary oxygen respiration treatment.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
  - Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.
  - For safety reasons unsuitable extinguishing agents: None.

- **5.2 Special hazards arising from the substance or mixture**
  - Formation of toxic gases is possible during heating or in case of fire.

- **5.3 Advice for firefighters**
  - Protective equipment:
    - Wear self-contained respiratory protective device.
    - Wear fully protective suit.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away.
  - Ensure adequate ventilation
  - Particular danger of slipping on leaked/spilled product.

- **6.2 Environmental precautions**
  - Avoid release to the environment.

- **6.3 Methods and material for containment and cleaning up**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Send for recovery or disposal in suitable receptacles.

- **6.4 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.
SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid splashes or spray in enclosed areas.
Use only in well ventilated areas.
Use personal protective equipment as required.
Avoid contact with the eyes and skin.
Avoid breathing mist/vapours/spray.

7.2 Conditions for safe storage, including any incompatibilities
Requirements to be met by storerooms and receptacles:
Use only receptacles specifically permitted for this substance/product.
Do not allow product to freeze.
Store in cool, dry conditions in well sealed receptacles.
Information about storage in one common storage facility:
Store away from foodstuffs.
Do not store together with acids.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>108-01-0 2-dimethylaminoethanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>EV (Canada) Short-term value: 22 mg/m³, 6 ppm</td>
</tr>
<tr>
<td>EV (Canada) Long-term value: 11 mg/m³, 3 ppm</td>
</tr>
<tr>
<td>WEL (Great Britain) Short-term value: 22 mg/m³, 6 ppm</td>
</tr>
<tr>
<td>WEL (Great Britain) Long-term value: 7.4 mg/m³, 2 ppm</td>
</tr>
</tbody>
</table>

DNELs: No further relevant information available.
PNECs: No further relevant information available.

8.2 Exposure controls
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

Respiratory protection:
Not required under normal conditions of use.
Use suitable respiratory protective device in case of insufficient ventilation.
Use suitable respiratory protective device when aerosol or mist is formed.
For spills, respiratory protection may be advisable.

Protection of hands:
Protective gloves
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS
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(Cont'd. from page 4)

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

  - **Eye protection:**
    - Safety glasses

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment:**
  No further relevant information available.

- **Risk management measures:** No further relevant information available.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

- **Appearance**
  - Form: Liquid
  - Colour: Clear
  - Odour: Amine-like
  - Odour threshold: Not determined.

- **pH-value:** ~11.9
- **Melting point/freezing point:** 5 °C (41 °F)
- **Initial boiling point and boiling range:** 98 °C (208.4 °F)

- **Flash point:** None to boil.
- **Flammability (solid, gas):** Not applicable.
- **Auto/Self-ignition temperature:** >235 °C (>455 °F)
- **Decomposition temperature:** Not determined.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits**
  - Lower: Not determined.
  - Upper: Not determined.
- **Oxidising properties:** Non-oxidising.

- **Vapour pressure at 20 °C (68 °F):** 15 - 20 mmHg

- **Density:**
  - Relative density: ~1
  - Vapour density: > 1 (Air = 1)
  - Evaporation rate: Not determined.

- **Solubility in / Miscibility with water:** Fully miscible.

- **Partition coefficient: n-octanol/water:** Not determined.

- **Viscosity**
  - Dynamic: Not determined.
  - Kinematic: Not determined.

(Cont'd. on page 6)
SECTION 10: Stability and reactivity

10.1 Reactivity
No further relevant information available.

10.2 Chemical stability
10.2.1 Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions
Exothermic reaction with acids.
Reacts with oxidising agents.

10.4 Conditions to avoid
Excessive heat.

10.5 Incompatible materials
Strong acids.
Oxidising agents

10.6 Hazardous decomposition products
Under fire conditions only:
Carbon monoxide and carbon dioxide
Nitrogen oxides
Irritant gases/vapours

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>108-01-0 2-dimethylaminoethanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Dermal LD50</td>
</tr>
<tr>
<td>Inhalative LC50/4h</td>
</tr>
</tbody>
</table>

Primary irritant effect
Skin corrosion/irritation:
Causes skin irritation.

Serious eye damage/irritation:
Causes serious eye damage.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Carcinogenic categories
IARC (International Agency for Research on Cancer):
None of the ingredients are listed.

Probable routes of exposure:
Ingestion.
Inhalation.
Eye contact.
Skin contact.
· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
· **Carcinogenicity:** Based on available data, the classification criteria are not met.
· **Reproductive toxicity:** Based on available data, the classification criteria are not met.
· **STOT-single exposure:** May cause respiratory irritation.
· **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
· **Aspiration hazard:** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

· **12.1 Toxicity**
  · **Aquatic toxicity:** Generally not hazardous for water.
· **12.2 Persistence and degradability** Biodegradable
· **12.3 Bioaccumulative potential** Does not accumulate in organisms.
· **12.4 Mobility in soil** No further relevant information available.
· **Ecotoxicological effects:**
  · **Remark:** After neutralisation, toxicity cannot be recognised any longer.
· **Additional ecological information:**
· **General notes:**
  Independent environmental testing of this product has been performed to evaluate the environmental impact of product runoff. When thoroughly diluted with water, the environmental impact of product runoff is expected to be minimal.
· **12.5 Results of PBT and vPvB assessment**
  · **PBT:** Not applicable.
  · **vPvB:** Not applicable.
· **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

· **13.1 Waste treatment methods**
  · **Recommendation**
    Small amounts may be diluted with plenty of water and washed away. Dispose of larger amounts in accordance with Local Authority requirements.
    The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
    · **Uncleaned packaging:**
      · **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

· **14.1 UN-Number**
  · **DOT, ADR/RID/ADN, IMDG, IATA** Not Regulated
Trade name: Corr-Ze™ 100

14.2 UN proper shipping name
DOT, ADR/RID/ADN, IMDG, IATA
Not Regulated

14.3 Transport hazard class(es)
DOT, ADR/RID/ADN, IMDG, IATA
Class
Not Regulated

14.4 Packing group
DOT, ADR/RID/ADN, IMDG, IATA
Not Regulated

14.5 Environmental hazards:
Marine pollutant:
No

14.6 Special precautions for user
Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
United States (USA)
SARA

Section 302 (extremely hazardous substances):
None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):
None of the ingredients are listed.

TSCA (Toxic Substances Control Act):
All ingredients are listed or exempt.

Proposition 65 (California):

Chemicals known to cause cancer:
None of the ingredients are listed.

Chemicals known to cause developmental toxicity for females:
None of the ingredients are listed.

Chemicals known to cause developmental toxicity for males:
None of the ingredients are listed.

Chemicals known to cause developmental toxicity:
None of the ingredients are listed.

EPA (Environmental Protection Agency)
None of the ingredients are listed.

IARC (International Agency for Research on Cancer)
None of the ingredients are listed.
Trade name: Corr-Ze™ 100

- **Canadian Domestic Substances List (DSL)**
  All ingredients are listed or exempt.

- **Other regulations, limitations and prohibitive regulations**
  - **Substances of very high concern (SVHC) according to REACH, Article 57**
    None of the ingredients are listed.

- **SECTION 16: Other information**
  This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

  - **Relevant phrases**
    H226 Flammable liquid and vapour.
    H302 Harmful if swallowed.
    H312 Harmful in contact with skin.
    H314 Causes severe skin burns and eye damage.
    H318 Causes serious eye damage.
    H331 Toxic if inhaled.
    H335 May cause respiratory irritation.

  - **Abbreviations and acronyms:**
    ADR: 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
    GHS: Globally Harmonised System of Classification and Labelling of Chemicals
    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)
    DNEL: Derived No-Effect Level (REACH)
    PNEC: Predicted No-Effect Concentration (REACH)
    LC50: Lethal concentration, 50 percent
    LD50: Lethal dose, 50 percent
    PBT: Persistant, Bio-accumulable, Toxic
    SVHC: Substances of Very High Concern
    vPvB: very Persistent and very Bioaccumulative
    Flam. Liq. 3: Flammable liquids – Category 3
    Acute Tox. 4: Acute toxicity - oral – Category 4
    Acute Tox. 3: Acute toxicity - inhalation – Category 3
    Skin Corr. 1B: Skin corrosion/irritation – Category 1B
    Skin Irrit. 2: Skin corrosion/irritation – Category 2
    Eye Dam. 1: Serious eye damage/eye irritation – Category 1
    STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

  - **Sources**
    Website, European Chemicals Agency (echa.europa.eu)
    Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
    Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
    Safety Data Sheets, Individual Manufacturers
Trade name: Corr-Ze™ 100

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Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtel.com

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