

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 05/01/2012

Reviewed on 05/01/2012

## 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** VpCI-386
- **Application of the substance / the preparation**  
Corrosion inhibitors  
Coating
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Cortec Corporation  
4119 White Bear Parkway  
St. Paul, MN 55110 USA  
Phone (651) 429-1100  
Fax (651) 429-1122
- **Information department:**  
info@cortecvci.com  
Product safety department.
- **Emergency telephone number:** Chemtrec (for spill, leak, fire exposure or accident): 1-800-424-9300

## 2 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 1336-21-6	ammonia, aqueous solution	C R34;  N R50	0.4%
EINECS: 215-647-6		H314;  H400	

- **Additional information** For the wording of the listed risk phrases refer to section 16.

## 3 Hazards identification

- **Classification of the substance or mixture**  
The product is not classified according to the Globally Harmonized System (GHS).
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void
- **Information concerning particular hazards for human and environment:**  
No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet.
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Classification system**
- **NFPA ratings (scale 0-4)**



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## · HMIS rating system (0-4)

HEALTH	1	Health = 1
FIRE	1	Flammability = 1
REACTIVITY	0	Reactivity = 0

## 4 First aid measures

### · General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

### · After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably on 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.

## 5 Firefighting measures

### · 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.

### · Protective equipment:

Mount respiratory protective device.

## 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).

### · Reference to other sections

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.

#### · Information about protection against explosions and fires:

No special measures required.

#### · 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.

#### · Specific end use(s)

No further relevant information available.

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## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **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.
- **Personal protective equipment**
- **General protective and hygienic measures**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
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.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **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.
- **Body protection:** Protective work clothing.

## 9 Physical and chemical properties

- |  |   |
|--|---|
| · <b>General Information</b>           |   |
| · <b>Appearance:</b>                   |   |
| <b>Form:</b>                           | Liquid  |
| <b>Color:</b>                          | Various colors                                |
| · <b>Odor:</b>                         | Characteristic                                |
| · <b>Odour threshold:</b>              | Not determined.                               |
| · <b>pH-value at 20°C (68 °F):</b>     | 8.5-9.7 (neat)                                |
| · <b>Change in condition</b>           |   |
| <b>Melting point/Melting range:</b>    | undetermined                                  |
| <b>Boiling point/Boiling range:</b>    | undetermined                                  |
| · <b>Flash point:</b>                  | Not applicable                                |
| · <b>Flammability (solid, gaseous)</b> | Not applicable.                               |
| · <b>Ignition temperature:</b>         |   |
| <b>Decomposition temperature:</b>      | Not determined.                               |
| · <b>Auto igniting:</b>                | Product is not selfigniting.                  |
| · <b>Danger of explosion:</b>          | Product does not present an explosion hazard. |

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· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapor pressure at 20°C (68 °F):</b>	23 hPa (17 mm Hg)
· <b>Density at 20°C (68 °F):</b>	0.96-1.26 g/cm <sup>3</sup> (8.011-10.515 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Fully miscible
· <b>Segregation coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>dynamic:</b>	Not determined.
<b>kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>Water:</b>	50-68 %
· <b>Solids content:</b>	32-50 %
· <b>Other information</b>	The above data are typical values and do not constitute a specification.

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known

## 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Repeated or prolonged skin contact with this product may produce skin irritation.
- **on the eye:** May be irritating.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Harmful  
Irritant

## 12 Ecological information

- **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.

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- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (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.

## 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>   |                 |
| · <b>DOT</b>   | Not applicable  |
| · <b>ADR</b>   | Not applicable  |
| · <b>UN proper shipping name</b>   | Not applicable  |
| · <b>Transport hazard class(es)</b>  |                 |
| · <b>IMDG, IATA</b>  |                 |
| · <b>Class</b>   | Not applicable  |
| · <b>Packing group</b>   | Not Applicable  |
| · <b>Environmental hazards:</b>  |                 |
| · <b>Marine pollutant:</b>   | 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. |

## 15 Regulatory information

- **SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

- **SARA Section 313 (specific toxic chemical listings)**

1336-21-6 ammonia, aqueous solution

1344-28-1 aluminium oxide

7632-00-0 sodium nitrite

- **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

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· **Prop 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

· **Carcinogeny categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

13463-67-7 titanium dioxide

2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7 titanium dioxide

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **GHS label elements** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

## 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.

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

USA