

Safety data sheet

acc. to 1907/2006/EC, Article 31 (REACH), 1272/2008/EC (CLP) and 453/2010/EC

Printing date 27.01.2015

Version number 1

Revision: 27.01.2015

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

- . 1.1 Product identifier
- . Trade name **Korrodex 332**
Article number: 48124
- . Article number: 48124
- . 1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
- . Application of the substance / the mixture
Corrosion inhibitors
Water treatment
Water conditioner
- . 1.3 Details of the supplier of the safety data sheet
- . Manufacturer/Supplier:
Kurita Europe APW GmbH
Giulinistraße 2
D-67065 Ludwigshafen
- . Information:
MSDS@kurita.eu
- . 1.4 Emergency telephone number: Tel.: +49 621 / 5709-112

www.kurita.eu
Tel: +49 621 5709-3000
Fax: +49 621 5709-6452

SECTION 2: Hazards identification

- . 2.1 Classification of the substance or mixture
- . Classification according to Regulation (EC) No 1272/2008
The product is not to be classified according to the CLP regulation.
- . Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void
- . Information concerning particular hazards for human and environment: Void
- . Classification system:
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.
- . 2.2 Label elements
- . Labelling according to Regulation (EC) No 1272/2008 Void
- . Hazard pictograms Void
- . Signal word Void
- . Hazard statements Void

SECTION 3: Composition/information on ingredients

- . 3.2 Chemical characterisation: Mixtures
- . Description:
Mixture consisting of the following components:
Inorganic salts
Organic salts
Inhibitors
Organic polymers
in water
- . Dangerous components: Void
- . SVHC No
- . Additional information No further relevant information available.

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SECTION 4: First aid measures

4.1 Description of first aid measures

. **After inhalation** : Supply fresh air; consult doctor in case of symptoms.

. **After skin contact** :

Wash with water and soap.

If skin irritation continues, consult a doctor.

. **After eye contact** : Rinse opened eye for 15 minutes under running water. If symptoms persist, consult doctor.

. **After swallowing** :

Rinse out mouth and then drink plenty of water (approx. 500 ml).

In case of persistent symptoms consult doctor.

. **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

. **Suitable extinguishing agents**

Use fire fighting measures that suit the environment.

CO₂, extinguishing powder or water jet. Fight larger fires with foam.

5.2 Special hazards arising from the substance or mixture

Fire can cause release of :

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters

. **Protective equipment**: Put on breathing apparatus.

. **Additional information** Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

. **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.

. **6.2 Environmental precautions**:

Do not allow concentrated solutions to enter drainage system, surface or ground water.

. **6.3 Methods and material for containment and cleaning up**:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

. **6.4 Reference to other sections** No dangerous materials are released.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special precautions necessary if used correctly.

Ensure good ventilation/exhaustion at the workplace.

. **Information about protection against explosions and fires**: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

. **Storage**

. **Requirements to be met by storerooms and containers**: No special requirements.

. **Information about storage in one common storage facility**: Not required.

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- . **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
Protect from frost.
Product quality requires storage between +5 °C and +40 °C.
- . **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- . **Additional information about design of technical systems:** No further data; see section 7.
- . **8.1 Control parameters**
- . **Components with critical values that require monitoring at the workplace:** Not required.
- . **Additional information:** The lists that were valid during compilation were used as a basis.
- . **8.2 Exposure controls**
- . **Personal protective equipment**
- . **General protective and hygienic measures**
The usual precautionary measures should be adhered to in handling the chemicals.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
- . **Breathing equipment:**
Use breathing protection only when aerosol or mist is formed.
Short term filter device: ABEK-filter
Filter type K, green, for organic, basic amines.
- . **Protection of hands:**
Protective gloves:
In case of spray contact at least protection index 2 recommended, according to more than 30 min. penetration time (EN 374).
Layer thickness of gloves at least: 0.4 mm
In case of prolonged and intensive contact protection index 6 recommended, according to more than 480 min. penetration time (EN 374).
Layer thickness of gloves at least: 0.7 mm
- . **Material of gloves**
Butyl rubber, BR
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
Natural rubber, NR
Chloroprene rubber, CR
Neoprene gloves
- . **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:** Safety glasses (DIN 58211, EN 166)
- . **Body protection:** Light weight protective clothing

SECTION 9: Physical and chemical properties

- . **9.1 Information on basic physical and chemical properties**
- . **General Information**
- . **Appearance:**

Form:	Fluid
Colour:	Light yellow
Smell:	Characteristic

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- . Odour threshold: not determined
- . pH-value (10 g/l) at 20 °C: ca. 8.4
- . Change in condition
 - Melting point/Melting range: not determined
 - Boiling point/Boiling range: Not determined
- . Flash point: > 100 °C
- . Inflammability (solid, gaseous) not applicable
- . Ignition temperature: not applicable
- . Decomposition temperature: not determined
- . Danger of explosion: Product is not explosive.
- . Critical values for explosion:
 - Lower: not applicable
 - Upper: not applicable
- . Oxidising properties not applicable
- . Steam pressure at 20 °C: ca. 23 hPa
- . Density at 20 °C ca. 1.1 g/cm³
- . 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
- . 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- . 10.1 Reactivity No hazardous reactions when stored and handled according to instructions.
- . 10.2 Chemical stability
- . Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- . 10.3 Possibility of hazardous reactions No dangerous reactions known
- . 10.4 Conditions to avoid No further relevant information available.
- . 10.5 Incompatible materials: No further relevant information available.
- . 10.6 Hazardous decomposition products:
 - No dangerous decomposition products known
 - Danger of toxic pyrolysis products

SECTION 11: Toxicological information

- . 11.1 Information on toxicological effects
- . Acute toxicity:
- . LD/LC50 values that are relevant for classification:
 - Oral LD50 > 2000 mg/kg (rat, calculated)

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- . **Primary irritant effect:**
- . **on the skin:** No irritant effect.
- . **on the eye:** Moderate irritation
- . **Sensitisation** No sensitizing effect known.
- . **Repeated dose toxicity** No further relevant information available.
- . **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
No further relevant information available.
Due to the ingredients there is no suspicion of a mutagenic effect.
Due to the ingredients there is no suspicion of a carcinogenic effect.
Due to the ingredients there is no suspicion of a toxic effect on reproduction.
Due to the ingredients there is no suspicion of a teratogenic effect.

SECTION 12: Ecological information

- . **12.1 Toxicity**
- . **Aquatic toxicity:**
EC50 > 100 mg/L (bacteria)
LC50 > 100 mg/L (fish)
- . **12.2 Persistence and degradability**
The organic portion of the product is biodegradable.
Inorganic salts are basically not biodegradable.
- . **Other information:** Easy elimination possible by flocculation or adsorption by sludge.
- . **12.3 Bioaccumulative potential** No further relevant information available.
- . **12.4 Mobility in soil** No further relevant information available.
- . **Ecotoxicological effects:**
- . **Other information:**
No VOC according to EC-directive 1999/13/EC
No AOX
- . **Additional ecological information:**
- . **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- . **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**
Smaller quantities can be disposed with household garbage.
Can be deposited with household garbage after consulting with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.
- . **European waste catalogue**
16 10 02 aqueous liquid wastes other than those mentioned in 16 10 01
- . **Uncleaned packaging:**
- . **Recommendation:**
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
Dispose of packaging according to regulations on the disposal of packagings.

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. Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information

- . 14.1 UN-Number
- . ADR, IMDG, IATA
- . 14.2 UN proper shipping name
- . ADR, IMDG, IATA
- . 14.3 Transport hazard class(es)
- . ADR, IMDG, IATA
- . Class
- . 14.4 Packing group
- . ADR, IMDG, IATA
- . 14.5 Environmental hazards:
- . 14.6 Special precautions for user
- . 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
- . Transport/Additional information:
- . UN "Model Regulation":

Void

Void

Void

Void

Not applicable.

Not applicable.

Not applicable.

Frost protected transport has to be guaranteed.
Not dangerous according to the above regulations.

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SECTION 15: Regulatory information

- . 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- . National regulations
- . 15.2 Chemical safety assessment:

Void

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- . Department issuing data specification sheet: Product Safety and Regulatory Affairs
- . Contact: MSDS@kurita.eu
- . Abbreviations and acronyms:
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 - ICAO: International Civil Aviation Organisation
 - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - 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)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
- . Sources: source ECHA: European Chemicals Agency, <http://echa.europa.eu/>
- . * Data compared to the previous version altered.