

SAFETY DATA SHEET

VpCI-649

Date 15.3.2013

Previous date: 12.1.2012

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
Commercial Product Name
 VpCI-649
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Recommended use
 Corrosion inhibitors and anti-scaling agents.
- 1.3 Details of the supplier of the safety data sheet**
Supplier
 ABB Oy
- P.O.Box** Valimopolku 4
Postcode and post office 00380 Helsinki
Telephone 010 2211
Email sales.productsupport@fi.abb.com
- Identification of the foreign producer**
 Cortec Corporation
 4119 White Bear Parkway
 MN 55110 St. Paul
 USA
 Telephone: (651) 429-1100
 Email: info@cortecvci.com
- 1.4 Emergency telephone number**
 United Kingdom of Great Britain and Northern Ireland:
 National Poisons Information Service
 + 8 448 920 111, 24 hrs
 Ireland: Dublin
 +353 1 809 2166 (public). 24hrs
 Malta:
 +356 2545 0000/ +356 2545 6504

SECTION 2. HAZARDS IDENTIFICATION

For the full text of the R-phrases mentioned in this Section, see Section 16.
 For the full text of the H-Statements mentioned in this Section, see Section 16.

- 2.1 Classification of the substance or mixture**
1272/2008 (CLP)
 Skin Irrit. 2, H315
 Eye Irrit. 2, H319
 STOT SE 3, H335
67/548/EEC - 1999/45/EC
 Xi; R36/37/38
- 2.2 Label elements**
1272/2008 (CLP)
 GHS07
 Signal word **Warning**
- Hazard Statements**
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
- Precautionary Statements**
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.



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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

May be harmful if swallowed.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures****Hazardous components**

CAS	EINECS	Chemical name of the substance	Concentration	Classification
		Dicarboxylate	17-20 %	Xi; R36/37/38; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335
64665-57-2	265-004-9	Tolyltriazole sodium salt	1-2 %	T; R25; C; R34; Acute Tox. 3, H301; Skin Corr. 1B, H314
7631-95-0	231-551-7	Sodium molybdate	1-2 %	Xi; R37/38; Skin Irrit. 2, H315; STOT SE 3, H335

3.3 Other information

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. FIRST AID MEASURES**4.1 Description of first aid measures**

When symptoms persist or in all cases of doubt seek medical advice.

Inhalation

If breathed in, move person into fresh air. Call a physician if symptoms occur.

Skin contact

In case of contact, immediately flush skin with soap and plenty of water.

Eye contact

Rinse immediately with plenty of water, also under the eyelids.

Ingestion

Drink plenty of water. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES**5.1 Extinguishing media****Extinguishing media which must not be used for safety reasons**

No information available.

5.2 Special hazards arising from the substance or mixture

No information available.

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- 5.3 Advice for firefighters**
Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment.
- 6.2 Environmental precautions**
Try to prevent the material from entering drains or water courses.
- 6.3 Methods and materials for containment and cleaning up**
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- 6.4 Reference to other sections**
For personal protection see section 8. SECTION 13: Disposal considerations

SECTION 7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Wear personal protective equipment.
- 7.2 Conditions for safe storage, including any incompatibilities**
Keep container tightly closed.
- 7.3 Specific end use(s)**
No information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
Contains no substances with occupational exposure limit values.
- Other information on limit values**
No information available.
- DNELs**
No information available.
- PNECs**
No information available.
- 8.2 Exposure controls**
- Appropriate engineering controls**
Provide adequate ventilation.
- Individual protection measures**
- Respiratory protection**
Breathing apparatus needed only when aerosol or mist is formed. Short-term exposure: respirator with filter. Long-term exposure: Preferably a compressed airline breathing apparatus.
- Hand protection**
Impervious gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Eye/face protection**
Tightly fitting safety goggles
- Skin protection**
Skin protection
- Environmental exposure controls**
No information available.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Important Health Safety and Environmental Information	
	Appearance	Liquid, tan
	Odour	characteristic
	Odour threshold	no data available
	pH	9,1-9,6
	Melting point/freezing point	no data available
	Initial boiling point and boiling range	no data available
	Flash point	no data available
	Evaporation rate	no data available
	Flammability (solid, gas)	260 °C
	Explosive properties	
	Lower explosion limit	no data available
	Upper explosion limit	no data available
	Vapour pressure	23 hPa (20 °C)
	Vapour density	no data available
	Relative density	1,14-1,16 g/cm ³ , 20 °C
	Solubility(ies)	
	Water solubility	completely miscible
	Fat solubility (solvent - oil to be specified)	no data available
	Partition coefficient: n-octanol/water	no data available
	Auto-ignition temperature	not auto-flammable
	Decomposition temperature	no data available
	Viscosity	no data available
	Explosive properties	Not explosive
	Oxidising properties	no data available
9.2	Other information	
	Solvent content (%):	
	organic solvent: 0,0	
	Water: 48-54	
	Solid content (%): 46-52	

SECTION 10. STABILITY AND REACTIVITY

10.1	Reactivity	No information available.
10.2	Chemical stability	Thermal decomposition: No decomposition if used as directed.
10.3	Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4	Conditions to avoid	No information available.
10.5	Incompatible materials	No information available.
10.6	Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

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11.1 Information on toxicological effects**Acute toxicity**

No information available.

Irritation and corrosion

No skin irritation. No eye irritation.

Sensitisation

Contains no substance or substances classified as sensitising.

Subacute, subchronic and prolonged toxicity

No information available.

STOT-single exposure

No information available.

STOT-repeated exposure

No information available.

Aspiration hazard

No information available.

SECTION 12. ECOLOGICAL INFORMATION**12.1 Toxicity****Aquatic toxicity**

No information available.

Toxicity to other organisms

No information available.

12.2 Persistence and degradability**Biodegradation**

No information available.

Chemical degradation

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Water contaminating class (Germany): 1. Discharge into the environment must be avoided.

SECTION 13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Contaminated packaging: If recycling is not practicable, dispose of in compliance with local regulations.

13.2 Waste from residues / unused products

Small amounts: Dilute with plenty of water. Flush into sewer with plenty of water. Larger amounts must be delivered to the public disposal system.

SECTION 14. TRANSPORT INFORMATION**14.1 UN number**

Not classified as dangerous in the meaning of transport regulations.

14.2 UN proper shipping name

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14.3 Transport hazard class(es)

-

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- 14.4 Packing group** -
- 14.5 Environmental hazards**
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- 14.6 Special precautions for users**
No information available.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
No information available.

SECTION 15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No information available.
- 15.2 Chemical safety assessment**
No information available.

SECTION 16. OTHER INFORMATION

- 16.1 Additions, Deletions, Revisions**
Version 1.0.
- 16.2 Key or legend to abbreviations and acronyms**
- **CLP** - Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
- **HTP** - time weighted average
- **DNEL** - No observed adverse effect level
- **PNEC** - Predicted No Effect Concentration
- **PBT** - persistent, bioaccumulating and toxic.
- **vPvB** - very persistent and very bioaccumulating.
- 16.3 Key literature references and sources for data**
Safety data, REGULATION (EC) No 1272/2008, Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, Annex VI, Table 3.2, Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, Annex VI, Table 3.1.
- 16.4 Classification procedure**
Classification according to EU Directives 67/548/EEC or 1999/45/EC, Classification according to Regulation (EU) 1272/2008 with the correlation table 67/548/EEC or 1999/45/EC (Annex VII of CLP), Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, Annex VI, Table 3.2, Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, Annex VI, Table 3.1.
- 16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**
R25 Toxic if swallowed.
R34 Causes burns.
R36/37/38 Irritating to eyes, respiratory system and skin.
R37/38 Irritating to respiratory system and skin.
H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
- 16.6 Additional information available from:**
Provide adequate information, instruction and training for operators. Refer to attached safety data sheets and/or instructions for use.