according to Regulation (EC) No. 1907/2006



# **Ardrox AV 100D**

Version: 8.2 Revision Date 02.05.2013 Print Date 23.04.2015

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

#### 1.1 Product identifier

Trade name : Ardrox AV 100D

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- : Corrosion inhibitor

stance/Mixture

Recommended restrictions : None known.

on use

### 1.3 Details of the supplier of the safety data sheet

Company : Chemetall GmbH

Trakehner Strasse 3 60487 Frankfurt a.M. : Surface Treatment

 Lead Organisation
 : Surface Treatment

 Telephone
 : +49(0)69 7165-0

 Telefax
 : +49(0)69 7165-3567

Contact person product safety

Telephone : +49(0)6971653581 E-mail address : msds.de@chemetall.com

## 1.4 Emergency telephone number

Emergency telephone : +49(0)5326 51-0

number

#### **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

## Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-

ways.

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting ef-

fects.

### Classification (67/548/EEC, 1999/45/EC)

Flammable R10: Flammable.

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Dangerous for the environment R52/53: Harmful to aquatic organisms, may cause

long-term adverse effects in the aquatic environ-

ment.

## 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :







Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters air-

ways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting ef-

fects.

Precautionary statements : **Prevention:** 

P210 Keep away from heat/sparks/open

flames/hot surfaces. - No smoking.

P260 Do not breathe dust/ fume/ gas/ mist/ va-

pours/ spray.

P262 Do not get in eyes, on skin, or on clothing.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do

NOT induce vomiting.

vice/ attention.

Disposal:

P501 Dispose of contents/ container to an ap-

proved waste disposal plant.

Hazardous components which must be listed on the label:

• Hydrocarbons, C9-C11, cyclics, < 2% aromatics

Labelling according to EC Directives (1999/45/EC)

R-phrase(s) : R10 Flammable.

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R52/53 Harmful to aquatic organisms, may cause

long-term adverse effects in the aquatic

environment.

S-phrase(s) : S16 Keep away from sources of ignition - No

smoking.

S23 Do not breathe gas/fumes/vapour/spray.

S24/25 Avoid contact with skin and eyes.
S36/37/39 Wear suitable protective clothing, gloves

and eye/face protection.

S60 This material and its container must be

disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to

special instructions/ Safety data sheets.

### 2.3 Other hazards

The information required is contained in this Material Safety Data Sheet.

## SECTION 3: Composition/information on ingredients

## 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical nature : Mixture of organic solvents.

# **Hazardous components**

Chemical Name	CAS-No. EC-No. Registration num- ber	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Hydrocarbons, C9-C11,		R10	Asp. Tox. 1;	>= 10 - < 15
cyclics, < 2% aromatics	925-894-8		H304	
	01-2119472436-34	Xn; R65		
			Flam. Liq. 3;	
		N; R51/53	H226	
		\(\(\text{\color}\)		
		Xi; R38	Aquatic Chronic	
		D07	2; H411	
		R67	Olain luuit O.	
			Skin Irrit. 2;	
		Nata II Nata D	H315	
		Nota H, Nota P	0707.05.0	
			STOT SE 3;	
			H336	

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Naphtha (petroleum),	64742-48-9	R10	Asp. Tox. 1;	>= 10 - < 25
hydrotreated heavy (benzene < 0,1 %)	265-150-3	Xn; R65 R66	H304 Flam. Liq. 3; H226	
		Nota H, Nota P		
Barium bis(dinonylnaphthalene sulphonate)	25619-56-1 247-132-7	Xn; R20/22 Xi; R36/38 Nota A	Acute Tox. 4; H332 Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315	>= 3 - < 5
2,2'-(octadec-9- enylimino)bisethanol	25307-17-9 246-807-3 01-2119510876-35	C; R34 Xn; R22 N; R50	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor:10	>= 1 - < 2.5

WEL substance :						
Paraffin waxes	8002-74-2 232-315-6	Not a hazard- ous substance or mixture ac- cording to Reg- ulation (EC) No. 1272/2008.				
Limestone	1317-65-3	Not a hazard- >= 10 - < 25				

according to Regulation (EC) No. 1907/2006



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215-279-6	ous substance or mixture ac- cording to Reg- ulation (EC) No. 1272/2008.
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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. For the full text of the Notas mentioned in this Section, see Section 16.

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice : First-aid crew: Ensure self-protection.

Move out of dangerous area.

Take off contaminated clothing and shoes immediately.

If inhaled : Move to fresh air.

If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and plenty of water.

If symptoms persist, call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids.

Consult a physician.

If swallowed : Rinse mouth with water.

Do NOT induce vomiting. Consult a physician.

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

Symptoms : No information available.

Risks : Aspiration hazard.

irritant effects

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

Treatment : Treat symptomatically.

For specialist advice physicians should contact the Poisons

Information Service.

## SECTION 5: Firefighting measures

## 5.1 Extinguishing media

according to Regulation (EC) No. 1907/2006



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Suitable extinguishing media : Carbon dioxide (CO2)

Dry powder

Alcohol-resistant foam

Water spray

Unsuitable extinguishing

media

: High volume water jet

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: May form toxic gases on heating or in case of fire.

Carbon monoxide Carbon dioxide (CO2) Nitrogen oxides (NOx)

## 5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Further information : Use water spray to cool unopened containers.

#### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment.

6.2 Environmental precautions

: Do not flush into surface water or sanitary sewer system. **Environmental precautions** 

Avoid subsoil penetration.

## 6.3 Methods and materials for containment and cleaning up

: Ensure adequate ventilation. Methods for cleaning up

> Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

#### 6.4 Reference to other sections

See chapter 8 and 13

## SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

: Provide sufficient air exchange and/or exhaust in work rooms. Advice on safe handling

> Have eye wash bottle or eye rinse ready at the work place. To avoid risks to man and the environment, comply with the

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instructions for use.

Advice on protection against

fire and explosion

: Keep away from sources of ignition - No smoking. Normal measures for preventive fire protection.

Take precautionary measures against static discharges.

Vapours may form explosive mixtures with air.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Keep containers tightly closed in a dry, cool and well-

ventilated place.

Store in a place accessible by authorized persons only.

Protect from direct sunlight.

Storage period : 36 month

Storage temperature : 4 - 38 °C

7.3 Specific end use(s)

Specific use(s) : Corrosion inhibitor

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Components	C	AS-No.	Value	Control param- eters	Update	Basis	
Paraffin waxes	80	002-74-2	TWA	2 mg/m3 Fumes	2011-12-01	GB EH40	
Further infor- mation	:	limits where or condense	48: The word 'fume' is often used to include gases and vapours. This is not the case for exposure limits where 'fume' should normally be applied to solid particles generated by chemical reactions or condensed from the gaseous state, usually after volatilisation from melted substances. The generation of fume is often accompanied by a chemical reaction such as oxidation or thermal breakdown.				
	80	002-74-2	STEL	6 mg/m3 Fumes	2011-12-01	GB EH40	
Further infor- mation	:	48: The word 'fume' is often used to include gases and vapours. This is not the case for exposure limits where 'fume' should normally be applied to solid particles generated by chemical reactions or condensed from the gaseous state, usually after volatilisation from melted substances. The generation of fume is often accompanied by a chemical reaction such as oxidation or thermal breakdown.					

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Limestone	1317-65-3	TWA	10 mg/m3 inhalable dust	2011-12-01	GB EH40
Further infor- mation	airborne do ods descri and inhala The COSIsent at a c 4 mg.m-3 people are exposure t Most industate of any that it elicit for limit-se Inhalable of during breapproximations and e Where dus be complied	ust which will bed in MDHS ble dust and oncentration oncentration of shour TWA carried dusts contained approximating purpose dust approximating and is test to the frametrs contain condition.	be collected when san 114/3 General methods of a substance hazardo in air equal to or greate of respirable dust. This ove these levels. Some comply with the appronatain particles of a wid rticle after entry into the other than the nature and size of stermed 'inhalable' an inates to the fraction of a therefore available for cition that penetrates to naterial are given in ME imponents that have the	npling is undertaken in for sampling and graviture to health includes of the transmission of transmission of the transmission	st are those fractions of accordance with the meth- imetric analysis of respirable fust of any kind when pre- pur TWA of inhalable dust or will be subject to COSHH if gned specific WELs and the body responsing to the stem and the body responsing the stem and the body responsing tract. Respirable dust it in of the lung. Fuller defining all the relevant limits should mes the long-term exposure
	1317-65-3	TWA	4 mg/m3 Res- pirable dust	2011-12-01	GB EH40
Further infor- mation	airborne do ods descri and inhala The COSIsent at a c 4 mg.m-3 people are exposure t Most industate of any that it elicit for limit-se Inhalable of during breapproximations and e Where dus be complied	ust which will bed in MDHS ble dust and oncentration oncentration on B-hour TWA carried dusts co particular pass, depend on thing purpose lust approximating and is sets to the fracts contain condition on the contain contain contain condition on the contain condition on the contain con	be collected when san 114/3 General methods of a substance hazardo in air equal to or greate of respirable dust. This ove these levels. Some comply with the appronatain particles of a wid rticle after entry into the other than the nature and size of stermed 'inhalable' an inates to the fraction of a therefore available for ction that penetrates to naterial are given in ME imponents that have the	npling is undertaken in for sampling and graviture to health includes of the remaining man and the remaining means that any dust have been assignized limit.  The range of sizes. The been human respiratory sy the particle. HSE disting the respirable direspirable direspirable in the respirate the gas exchange region of the respirate direction on the respirate direction on the respirate deposition in the respirate direction on the respirate direction on the respirate direction of the respirate direction on the respirate deposition in the respirate deposition in the respirate deposition in the respirate deposition on the respirate deposition of the respirate deposition	st are those fractions of accordance with the methimetric analysis of respirable lust of any kind when prepur TWA of inhalable dust or ill be subject to COSHH if gned specific WELs and behaviour, deposition and stem and the body responsinguishes two size fractions enters the nose and mouth atory tract. Respirable dust ion of the lung. Fuller defining, all the relevant limits shoulnes the long-term exposure

DNEL/DMEL

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Hydrocarbons, C9-C11, cy-

clics, < 2% aromatics

: End Use: DNEL, Workers Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 300 mg/kg bw/d

End Use: DNEL, Workers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 1500 mg/m3

2,2'-(octadec-9-enylimino)bisethanol

: End Use: DNEL, Workers Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 0.25 mg/kg bw/d

End Use: DNEL, Workers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 1.76 mg/m3

**PNEC** 

2,2'-(octadec-9enylimino)bisethanol

Fresh water

Value: 0.000214 mg/l

Marine water

Value: 0.000021 mg/l

Behaviour in waste water treatment plants

Value: 1.5 mg/l

Fresh water sediment

Value: 1.692 mg/kg dry weight (d.w.)

Marine sediment

Value: 0.1692 mg/kg dry weight (d.w.)

Soil

Value: 5 mg/kg dry weight (d.w.)

## 8.2 Exposure controls

## **Engineering measures**

Ensure adequate ventilation, especially in confined areas.

Electrical equipment should be protected to the appropriate standard.

Use only explosion-proof equipment.

#### Personal protective equipment

Respiratory protection : In case of insufficient ventilation wear suitable respiratory

according to Regulation (EC) No. 1907/2006



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equipment.

Recommended Filter type:

A-P2

Hand protection : Nitrile rubber

butyl-rubber

Protective gloves complying with EN 374.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of

cuts, abrasion, and the contact time.

Eye protection : Eye protection (EN 166)

Tightly fitting safety goggles

Skin and body protection : Chemical resistant protective clothing according to DIN EN

13034 (Type 6)

Hygiene measures : Take off contaminated clothing and shoes immediately.

Keep away from food, drink and animal feedingstuffs.

Wash hands before breaks and immediately after handling the

product.

Avoid contact with skin and eyes.

Do not breathe vapour. Do not breathe spray.

#### **Environmental exposure controls**

General advice : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Appearance : liquid thixotropic

Colour : beige

Odour : solvent-like

Flash point : 47 °C

Method: ASTM D 93

pH : Not applicable

Boiling point/boiling range : 150 - 200 °C

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Density : 0.99 g/cm3

at 20 °C

Water solubility : insoluble

Viscosity, kinematic : > 20 mm2/S

at 40 °C

9.2 Other information

Explosivity : Vapours may form explosive mixture with air.

Directive 1999/13/EC on the

limitation of emissions of volatile organic compounds

: Value: 257 g/l

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

## 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

10.4 Conditions to avoid

Conditions to avoid : To avoid thermal decomposition, do not overheat.

Keep away from open flames, hot surfaces and sources of

ignition.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Risk of decomposition. : No decomposition if stored and applied as directed.

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## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

**Acute toxicity** 

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Acute oral toxicity

Hydrocarbons, C9-C11, cy-: LD50: > 5,000 mg/kg

clics, < 2% aromatics Species: Rat

Method: OECD Test Guideline 401

Naphtha (petroleum), hy-

drotreated heavy (benzene <

: LD50: > 5,000 mg/kg

Species: Rat 0,1 %)

Barium bis(dinonylnaphthalenesulph

onate)

: Acute toxicity estimate: 500 mg/kg

Method: Converted acute toxicity point estimate

2,2'-(octadec-9-: LD50: > 300 - 2,000 mg/kg

Species: Rat enylimino)bisethanol

Method: OECD Test Guideline 401

Paraffin waxes : LD50: > 5,000 mg/kg

Species: Rat

: LD50: > 5,000 mg/kg Limestone

Species: Rat

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

vapour

Method: Calculation method

Acute inhalation toxicity

Hydrocarbons, C9-C11, cy-: LC50: 4,951 mg/l clics, < 2% aromatics

Exposure time: 4 h Species: Rat

Method: OECD Test Guideline 403

Acute dermal toxicity

Hydrocarbons, C9-C11, cy-: LD50: > 5,000 mg/kgclics, < 2% aromatics Species: Rabbit

Method: OECD Test Guideline 402

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Naphtha (petroleum), hydrotreated heavy (benzene <

0,1%)

Paraffin waxes

: LD50: > 2,000 mg/kgSpecies: Rabbit

: LD50: > 2,000 mg/kg

Species: Rabbit

Skin corrosion/irritation

Skin irritation : Causes skin irritation.

Serious eye damage/eye irritation

Eye irritation : Causes serious eye irritation.

Respiratory or skin sensitisation

Sensitisation : No data available

**Aspiration hazard** 

: May be fatal if swallowed and enters airways. Aspiration toxicity

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Ecotoxicology studies for the product are not available.

Toxicity to fish

Hydrocarbons, C9-C11, cy-

clics, < 2% aromatics

: LC50: 3.6 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

2,2'-(octadec-9enylimino)bisethanol : LC50: > 0.1 - 1 mg/l

Exposure time: 96 h

Species: Brachydanio rerio (Zebra danio) Method: OECD Test Guideline 203

: LC50: > 10,000 mg/l Limestone

Exposure time: 96 h Species: Fish

Toxicity to daphnia and other aquatic invertebrates Hydrocarbons, C9-C11, cy-: EC50: 22 - 46 mg/l

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clics, < 2% aromatics Exposure time: 48 h

Species: Daphnia magna (Water flea)

2,2'-(octadec-9enylimino)bisethanol : EC50: > 0.001 - 0.01 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

Method: OECD Test Guideline 202

GLP: yes

EC100: > 0.001 - 0.01 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

Limestone : LC50: > 1,000 mg/l

Exposure time: 48 h

Species: Daphnia (water flea)

Toxicity to algae

Hydrocarbons, C9-C11, cy-

clics, < 2% aromatics

: EC50: > 1,000 mg/l Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

2,2'-(octadec-9- : EC50: > 0.001 - 0.01 mg/lenylimino)bisethanol : Exposure time: 72 h

Exposure time. 72 ii

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

Limestone : .: > 200 mg/l

Exposure time: 72 h Species: Algae

## 12.2 Persistence and degradability

Biodegradability : No data available

Biodegradability

2,2'-(octadec-9- : Method: OECD Test Guideline 301D

enylimino)bisethanol GLP: yes

This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a

detergent manufacturer.

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Readily biodegradable

12.3 Bioaccumulative potential

Bioaccumulation : Bioaccumulation is unlikely.

12.4 Mobility in soil

Distribution among environ: No data available

mental compartments

12.5 Results of PBT and vPvB assessment

This mixture does not contain substances considered to be persistent, bioaccumulating and toxic (PBT)., This mixture does not contain substances considered to be very persistent and very bioaccumulating (vPvB).

#### 12.6 Other adverse effects

Chemical Oxygen Demand (COD)

2,2'-(octadec-9- : 3,880 mg/g

enylimino)bisethanol

Additional ecological infor: water endangering

mation Harmful to aquatic life with long lasting effects.

Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.

Waste Code : Waste codes should be assigned by the user, preferably in

discussion with the waste disposal authorities.

## **SECTION 14: Transport information**

ADR

UN number : 1139

UN proper shipping name : COATING SOLUTION

Transport hazard class(es) : 3
Packing group : III
Classification Code : F1

15 / 19

- EN

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Hazard Identification Number : 30 Limited Quantity (LQ) Inner : 5.00 L

Packaging

Maximum quantity : 30.00 KG
Labels : 3
Tunnel restriction code : (D/E) Environmentally hazardous : no

**Special Provision 640E** 

**IATA** 

UN number : 1139

Description of the goods : Coating solution

Class : 3

Class : 3 Packing group : 111 Labels : 3

IATA C

Packing instruction (cargo : 366

aircraft)

Packing instruction (LQ) : Y344

Maximum quantity : 220.00 L

Environmentally hazardous : no

IATA P

Packing instruction (passen: 355

ger aircraft)

Packing instruction (LQ) : Y344

Maximum quantity : 60.00 L

Environmentally hazardous : no

**IMDG** 

UN number : 1139

Description of the goods : COATING SOLUTION

Class Packing group : 111 Labels : 3 EmS Number 1 : F-E EmS Number 2 : S-E Marine pollutant : no

"IMDG-Code segregation group not applicable".

"IMDG-Code segregation group not applicable".

RID

**UN** number : 1139

Description of the goods : COATING SOLUTION Transport hazard class(es) : 3

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Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Limited Quantity (LQ) Inner : 5.00 L

Packaging

Maximum quantity : 30.00 KG

Environmentally hazardous : no

**Special Provision 640E** 

# SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

: This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Water contaminating class

(Germany)

: WGK 2 water endangering

VWVWS A4

Other regulations : The product is classified and labelled in accordance with EC

directives or respective national laws.

Regional or national implementations of GHS may not imple-

ment all hazard classes and categories.

#### 15.2 Chemical Safety Assessment

For a mixture it is not mandatory to include an exposure scenario in the material safety data sheet. The necessary safety - related information is stated in the first 16 sections.

## **SECTION 16: Other information**

Full text of R-phrases referred to under sections 2 and 3

according to Regulation (EC) No. 1907/2006



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R10 Flammable.

R20/22 Harmful by inhalation and if swallowed.

R22 Harmful if swallowed.

R34 Causes burns.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R50 Very toxic to aquatic organisms.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

## Full text of H-Statements referred to under sections 2 and 3.

H226 Flammable liquid and vapour. Harmful if swallowed. H302 H304 May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. H314 H315 Causes skin irritation. H319 Causes serious eve irritation. Harmful if inhaled. H332 H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

#### Full text of Notas referred to under section 3

according to Regulation (EC) No. 1907/2006



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Version: 8.2 Revision Date 02.05.2013 Print Date 23.04.2015

Nota A

The name of the substance must appear on the label in the form of one of the designations given in Annex I (see Article 23(2)(a)). In Annex I, use is sometimes made of a general description such as compounds or salt. In this case, the manufacturer or any other person who markets such a substance is required to state on the label the correct name, due account being taken of the chapter entitled Nomenclature of the Foreword: Example: for BeCl2 (Einecs No 232-116-4): beryllium chloride. The Directive also requires that the symbols, indications of danger, Rand S-phrases to be used for each substance shall be those shown in Annex I (Article 23(2)(c), (d) and (e)). For substances belonging to one particular group of substances included in Annex I, the symbols, indications of danger, R- and S-phrases to be used for each substance shall be those shown in the appropriate entry in Annex I. For substances belonging to more than one group of substances included in Annex I, the symbols, indications of danger, R- and S-phrases to be used for each substance shall be those shown in both the appropriate entries given in Annex I. In cases where two different classifications are given in the two entries for the same hazard, the classification reflecting the more severe hazard classification is used. Example: for substance AB no individual entry in Annex I: Annex I group entry for compounds of A: Repr. Cat. 1; R61 Repr. Cat. 3; R62 Xn; R20/22 R33 N; R50-53 Annex I group entry for compounds of B: Carc. Cat.1; R45 T; R23/25 N; R51-53 Classification of substance AB thus becomes: Carc. Cat. 1; R45 Repr. Cat. 1; R61 Repr. Cat. 3; R62 T; R23/25 R33 N; R50-53.

Nota H

The classification and label shown for this substance applies to the dangerous property(ies) indicated by the risk phrase(s) in combination with the category(ies) of danger shown. The manufacturers, importers and downstream users of this substance shall be obliged to carry out an investigation to make themselves aware of the relevant and accessible data which exists for all other properties to classify and label the substance. The final label shall follow the requirements of section 7 of Annex VI of this Directive.

Nota P

The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7). When the substance is classified as a carcinogen or mutagen, Note E shall also apply. When the substance is not classified as a carcinogen or mutagen at least the S-phrases (2-)23-24-62 shall apply. This note applies only to certain complex oil-derived substances in Annex I.

## **Further information**

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.

This data sheet contains changes from the previous version in section(s): 3