

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Amefix
Revision date : 27-05-2021
Print date : 11-01-2024

Version (Revision) : 10.0.0 (9.1.0)

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

1.1 Product identifier

Amefix

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

Relevant identified uses

PC 14 - Metal surface treatment products

Sectors of use [SU]

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Process categories [PROC]

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 11 - Non industrial spraying

PROC 19 - Manual activities involving hand contact

Environmental release categories [ERC]

ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

Uses advised against

This product should not be used for purposes other than the applications referred to above.

1.3 Details of the supplier of the safety data sheet

Supplier

Americol BV

Street : Sluispolderweg 33

Postal code/City : 1505 HJ Zaandam

Telephone : +31 (0)75-631 32 44

Information contact : Dept. Safety, Health and Environment

Website : www.americol.nl

E-mail (competent person) : info@americol.nl

1.4 Emergency telephone number

(08.00 - 17.00)

National Poisons Information Service (NPIS) Email: director.birmingham.unit@npis.org Website: <http://www.npis.org/>

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



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Corrosion (GHS05) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

HYDROGEN CHLORIDE 24 % ; CAS No. : 7647-01-0

QUAT. C12-14 ALKYL METHYLAMINE ETHOXYLATE METHYL CHLORIDE ; CAS No. : 1554325-20-0

ALCOHOLS, C9-11, ETHOXYLATE > 2,5 EO ; CAS No. : 68439-46-3

Hazard statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P310 Immediately call a POISON CENTER/doctor/....
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P406 Store in a corrosion resistant/... container with a resistant inner liner.

Remark

The product is classified and labelled according to EC directives or corresponding national laws.

2.3 Other hazards

Frequently or prolonged contact with skin may cause dermal irritation.

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

2.4 Additional information

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

HYDROGEN CHLORIDE ; REACH No. : 01-2119484862-27 ; EC No. : 231-595-7; CAS No. : 7647-01-0

Weight fraction : $\geq 10 - < 25$ %
Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 STOT SE 3 ; H335 Eye Dam. 1 ; H318: C ≥ 25 % • Skin Corr. 1B ; H314: C ≥ 25 % • Skin Corr. 1C ; H314: C ≥ 25 % • Eye Irrit. 2 ; H319: C ≥ 10 % • Skin Irrit. 2 ; H315: C ≥ 10 % • STOT SE 3 ; H335: C ≥ 10 %

ALCOHOLS, C9-11, ETHOXYLATE > 2,5 EO ; REACH No. : POLYMER ; CAS No. : 68439-46-3

Weight fraction : $< 2,5$ %
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

1,1-DIPHOSPHONIC ACID ; REACH No. : 01-2119510391-53 ; EC No. : 220-552-8; CAS No. : 2809-21-4

Weight fraction : $\geq 1 - < 2,5$ %
Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

Additional information

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For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

Following inhalation

No special measures are necessary.

In case of skin contact

Wash immediately with: Water and soap Change contaminated, saturated clothing. Wash contaminated clothing prior to re-use.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

Following ingestion

Call a physician in any case! Do NOT induce vomiting. If major quantity of dust is swallowed or inhaled, immediately drink: Water

4.2 Most important symptoms and effects, both acute and delayed

The following symptoms may occur: No known symptoms to date. Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water mist Foam Extinguishing powder Carbon dioxide (CO₂)

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Do not breathe gas/fumes/vapour/spray. Carbon monoxide Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

5.4 Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Emergency procedures

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In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

For containment

Collect in closed and suitable containers for disposal. Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Suitable material for taking up: Sand Absorbing material, organic

6.4 Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage



7.1 Precautions for safe handling

None

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep/Store only in original container. Suitable container/equipment material: Stainless steel Polyethylene (PE)
Unsuitable container/equipment material: Butyl caoutchouc (butyl rubber)

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

HYDROGEN CHLORIDE ; CAS No. : 7647-01-0

Limit value type (country of origin) : STEL (EC)

Limit value : 10 ppm / 15 mg/m³

Version : 20-06-2019

Limit value type (country of origin) : TWA (EC)

Limit value : 5 ppm / 8 mg/m³

Version : 20-06-2019

Limit value type (country of origin) : Exposure Limit (8h) (NL)

Limit value : 8 mg/m³ / 5 ppm

Version : 01-01-2007

Limit value type (country of origin) : Exposure Limit (15min) (NL)

Limit value : 15 mg/m³ / 10 ppm

Version : 01-01-2007

DNEL-/PNEC-values

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DNEL/DMEL

HYDROGEN CHLORIDE ; CAS No. : 7647-01-0

Limit value type : DNEL/DMEL (Worker)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 15 mg/m³
Limit value type : DNEL/DMEL (Worker)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 8 mg/m³

PNEC

HYDROGEN CHLORIDE ; CAS No. : 7647-01-0

Limit value type : PNEC (Aquatic, freshwater)
Exposure route : Water (Including sewage plant)
Limit value : 0,036 mg/l
Limit value type : PNEC (Aquatic, marine water)
Exposure route : Water (Including sewage plant)
Limit value : 0,036 mg/l
Limit value type : PNEC (Sewage treatment plant)
Exposure route : Water (Including sewage plant)
Limit value : 0,036 mg/l

8.2 Exposure controls

Personal protection equipment



Eye/face protection

Eye glasses with side protection

Skin protection

Hand protection Suitable gloves type EN ISO 374 Butyl caoutchouc (butyl rubber) NBR (Nitrile rubber) Required properties liquid-tight. Breakthrough time Permeation time (maximum wear duration) Thickness of the glove material Nitril: 0,12 mm Butyl: 0,50 mm

General information

Immediately remove any contaminated clothing, shoes or stockings. Wash contaminated clothing prior to re-use.

Environmental exposure controls

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Colour : yellow

Odour : Chlorine.

Safety characteristics

Initial boiling point and boiling range :	(1013 hPa)	>	100	°C
Lower explosion limit :				Vol-%
Upper explosion limit :				Vol-%
Density :	(20 °C)	approx.	1,12	g/cm ³

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Water solubility :	(20 °C)	100	Weight-%
pH :		2	
Partition coefficient (n-octanol/water) :	<	3	
Viscosity :	(20 °C)	<	10 mPa*s
Physical state :	Liquid		
Melting point/freezing point :	not applicable		
Decomposition temperature :	No data available		
Freezing point :	No data available		
Flash point :	not applicable		
Auto-ignition temperature :	No data available		
Vapour Pressure :	No data available		
Evaporation rate (n-butylacetate = 1) :	No data available		
Vapour density (air = 1) :	No data available		
Valt onder Detergentia Verordening (EG) Nr. 648/2004 J/N	yes		

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

not applicable

10.2 Chemical stability

Stable under normal conditions of use

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Strong oxidizers

10.6 Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Acute inhalation toxicity

Parameter :	LC50 (HYDROGEN CHLORIDE ; CAS No. : 7647-01-0)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	3124 ppm

Corrosion

Skin corrosion/irritation

irritant.

Serious eye damage/eye irritation

irritant.

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Irritation to respiratory tract

No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

STOT-single exposure

not applicable

STOT-repeated exposure

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

11.2 Information on other hazards

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Harmless to aquatic organisms up to the tested concentration.

12.2 Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Delivery to an approved waste disposal company. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number or ID number

Land transport (ADR/RID) : UN1760

Sea transport (IMDG) : UN1760

Air transport (ICAO-TI / IATA-DGR) : UN

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14.2 UN proper shipping name

Land transport (ADR/RID)

CORROSIVE LIQUID, N.O.S. (HYDROGEN CHLORIDE · PROP-2-IN-1-OL)

Sea transport (IMDG)

CORROSIVE LIQUID, N.O.S. (HYDROGEN CHLORIDE · PROP-2-IN-1-OL)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 8
Classification code : C1
Hazard identification number (Kemler No.) : 80
Tunnel restriction code : E
Special Provisions : LQ 5 I · E 1
Hazard label(s) :



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Sea transport (IMDG)

Class(es) : 8
EmS-No. : F-A / S-B
Special Provisions : IMDG-Code segregation group 1 - Acids
Hazard label(s) :



8

Air transport (ICAO-TI / IATA-DGR)

Class(es) : -

14.4 Packing group

Land transport (ADR/RID) : III

Sea transport (IMDG) : III

14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3

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Other regulations (EU)

Labelling for contents according to regulation (EC) No. 648/2004

non-ionic surfactants	< 5	%
phosphonates	< 5	%
cationic surfactants	< 5	%

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

SECTION 16: Other information

16.1 Indication of changes

02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 03. Hazardous ingredients

16.2 Abbreviations and acronyms

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road
ASTM = American Society of Testing and Materials (US)
CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)
DNEL = Derived No-Effect Level
DT50 = Time for 50% loss; half-life
EbC50 = Median effective concentration (biomass, e.g. of algae)
EC50 = Median effective concentration
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)
ErC50 = Median effective concentration (growth rate, e.g. of algae)
EWC = European Waste Catalogue
IATA = International Air Transport Association
IC50 = Concentration that produces 50% inhibition
IMDG = International Maritime Dangerous Goods Code
IMO = International Maritime Organization
LC50 = Concentration required to kill 50% of test organisms
LD50 = Dose required to kill 50% of test organisms
LEL = Lower Explosive Limit/Lower Explosion Limit
LOAEL = Lowest observed adverse effect level
MRL = Maximum Residue Limit
NOAEL = No Observed Adverse Effect Level
NOEC = No observed effect concentration
NOEL = No Observable Effect Level
OEL = Occupational Exposure Limits
PBT = Persistent, Bioaccumulative or Toxic
PNEC = Predictable Non Effect Concentration
STEL = Short-Term Exposure Limit
TWA = Time-Weighted Average
vPvB = Very Persistent and Very Bioaccumulative

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

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H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

16.6 Training advice

None

16.7 Additional information

Article No.: 922

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
