

SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

FINEAMIN® 90

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

1.1 Product identifier

Trade name: *FINEAMIN® 90*

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

No further relevant information available.

Application of the substance / the preparation: Additive for steam boilers and closed circuits

1.3 Details of the supplier of the safety data sheet:

Manufacturer/Supplier:

FINEAMIN SA
av. des Grandes-Communes 8 CH-1213 Petit-Lancy,
Genève Tel. +41 22 552 2535
Fax +41 22 552 2536; Email: info@fineamin.ch

1.4 Emergency telephone number

France (ORFILA 24h/24) - Tel : +33 (0)1 45 42 59 59
Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964
(24h/24)
EU Tel : 112

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation
(EC) No 1272/2008 :



GHS05

Skin Corr. 1B

H314: Causes severe skin burns & eye damage.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC :



GHS07

Acute Tox. 4

H302 Harmful if swallowed.

Acute Tox. 4

H312 Harmful in contact with skin.**C**
Corrosive**R34:** Causes burns.**Xn**
Harmful**R21/22 - 62:** Harmful in contact with skin and if swallowed. Possible risk of impaired fertility

Information concerning particular hazards for human and environment:

The product has to be labelled in the latest valid version according to the calculation procedure of the "General Classification guideline for preparations of the EU".

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS05



GHS07

Signal word:

Danger

Hazard-determining components of labelling:

2-aminoethanol
Cyclohexylamine

Hazard statements:

H302+H312 :

Harmful if swallowed or in contact with skin.

H314:

Causes severe skin burns and eye damage.

Precautionary statements:

P101:

If medical advice is needed, have product container or label at hand.

P102:

Keep out of reach of children.

P103:

Read label before use.

P261:	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280:	Wear protective gloves/protective clothing/eye protection/face protection.
P264:	Wash hands thoroughly after handling.
P303+P361+P353:	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340:	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313:	IF exposed or concerned: Get medical advice/attention.
P301+P330+P331:	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P501:	Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:	Not applicable.
vPvB:	Not applicable.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterisation:

Mixtures

Description:

Mixture consisting of the following components and non-hazardous substances in water

Dangerous componets:

CAS: 141-43-5

2-Aminoethanol 10 - 25%

EINECS: 205-483-3



C



Xn

R34

R20/21/22

Index number: 603-030-00-8

RTECS: KJ 5775000



Skin Corr. 1B, H314;



Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332;

Reg.no.: 01-2119486455-28-xxxx

CAS: 108-91-8

Cyclohexylamine

10 - 25%

EINECS: 203-629-0



C



Xn

R34

R21/22-62

Index number: 612-050-00-6

R10

RTECS: GX 0700000

Repr. Cat. 3

Reg.no.: 01-2119486803-29-0002

 Flam. Liq. 3, H226;
  Repr. 2, H361f;
  Skin Corr. 1B, H314;
  Acute Tox. 4, H302; Acute Tox. 4, H312

CAS: 7173-62-8

EINECS: 230-528-9

Reg.nr.: 01-2119487002-46-xxxx

(Z)-N-9-octadecenylpropane-1,3-diamine 1 - 3%
 T R48/25
  C R34
  Xn R22
  N R50
 STOT RE 1, H372;
  Skin Corr. 1B, H314;
  Aquatic Acute 1, H400;
  Acute Tox. 4, H302

Additional information:

For the wording of the listed risk phrases, refer to section 16.

SECTION 4 - FIRST AID MEASURES**4.1 Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After excessive inhalation:

In case of unconsciousness place patient in a stable laying downside 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. Then consult a doctor.

After swallowing:

Call for a doctor immediately. Drink plenty of water and provide fresh air. Call for a doctor immediately.

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 Suitable extinguishing agents: CO₂, powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture: No further relevant information available.

5.3 Advice for firefighters:

Protective equipment: No special measures required.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures: Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Dilute with plenty of water.
Do not allow to enter sewers/ 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, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to *item 13*. Ensure adequate ventilation.

6.4 Reference to other sections: See *Section 7* for information on safe handling.
See *Section 8* for information on personal protective equipment.
See *Section 13* for disposal information.

SECTION 7- HANDLING AND STORAGE

7.1 Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Information about fire - and explosion protection: Protect from heat.

7.2 Conditions for safe storage, including any incompatibilities**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:Protect from frost.
Keep container tightly sealed.
Protect from heat and direct sunlight.**7.3 Specific end use(s):**

No further relevant information available.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**Additional information about design of technical facilities:**No further data; *see section 7.***8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****- 141-43-5 2-Aminoethanol (10-25%)**

WEL (Great Britain)

- Short-term value: 7.6 mg/m³, 3 ppm
- Long-term value: 2.5 mg/m³, 1 ppm
- Sk

IOELV (EU)

- Short-term value: 7.6 mg/m³, 3 ppm
- Long-term value: 2.5 mg/m³, 1 ppm
- Skin

MAK (Switzerland)

- Short-term value: 10 mg/m³, 4 ppm
- Long-term value: 5 mg/m³, 2 ppm
- S

- 108-91-8 Cyclohexylamine (3 - 10%)

WEL (Great Britain)

- Long-term value: 41 mg/m³, 10 ppm

MAK (Switzerland)

- Short-term value: 16.4 mg/m³, 4 ppm
- Long-term value: 8.2 mg/m³, 2 ppm
- H SSc;

Additional information:

As a basis for the production of this document, the most current valid lists were used.

8.2 Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

Keep away from food, beverages, and pet food.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Respiratory protection:

Not required.

Protection of hands:

Protective gloves

Gloves material: Nitrile rubber, NBR

**Eye protection:**

Tightly sealed goggles

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties****General information****Appearance:**

Form: Liquid

Colour: Colourless

Odour:

Characteristic

Odour threshold:

Not determined

pH-value at 20 °C:

12.5

Change in condition

Melting point/Melting range: -10 °C

Boiling point/Boiling range: 100 °C

Flash point:

Not applicable.

Flammability (solid, gaseous):

Not applicable.

Ignition temperature:

Not applicable.

Decomposition temperature:

Not determined.

Self-igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	Lower: Not determined. Upper: Not determined.
Vapour pressure at 20 °C:	0.3 hPa
Density at 20 °C:	1+/-0.1 g/cm ³
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with water:	Fully miscible.
Segregation 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

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.

SECTION 11 – TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity:****LD/LC50 values relevant for classification:**

141-43-5 2-Aminoethanol	Oral	LD50	1720 mg/kg (rat)
	Dermal	LD50	1000 mg/kg (rabbit)
108-91-8 Cyclohexylamine	Oral	LD50	156 mg/kg (rat)
	Dermal	LD50	277 mg/kg (rabbit)

Primary irritant effect:**On the skin:**

Caustic effect on skin and mucous membranes.

On the eyes:

Strong caustic effect.

Sensitisation:

No sensitising effects known.

Additional toxicological information:

The product shows the following hazards according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

No further relevant information available.

SECTION 12 – ECOLOGICAL INFORMATION**12.1 Toxicity****Aquatic toxicity:**

No further relevant information available.

12.2 Persistence and degradability:

70% biodegradable.

12.3 Bio accumulative potential:

No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

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. Must not reach sewage water or drainage ditch undiluted or unneutralised.

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:



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Recommended cleansing agents:

Water, if necessary, together with cleansing agents.

SECTION 14 – TRANSPORT INFORMATION

14.1 UN-Number

ADR, IMDG, IATA

UN3267

14.2 UN proper shipping name

ADR

3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(2-Aminoethanol, Cyclohexylamin)

IMDG, IATA

CORROSIVE LIQUID, BASIC, ORGANIC, N. O.S.
(2-Aminoethanol, Cyclohexylamin)**14.3 Transport hazard class(es)**

ADR



Class 8 (C7) Corrosive substances.

Label 8

IMDG, IATA



Class 8 Corrosive substances.

Label 8

14.4 Packing group

ADR, IMDG, IATA

III

14.5 Environmental hazards:

Marine pollutant:

No

14.6 Special precautions for user*Warning: Corrosive substances.*

Danger code (Kemler):

80

EMS Number:

F-A,S-B

Segregation groups:

Alkalis

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport category 3

Tunnel restriction code E

IMDG	Limited quantities (LQ)	5L
	Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging:	30 ml
	Maximum net quantity per outer packaging:	1000 ml

UN "Model Regulation"	UN3267 , CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (2-Aminoethanol, Cyclohexylamin), 8, III
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SECTION 15 – REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:** No further relevant information available.
- 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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.

Relevant phrases:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
R10	Flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed.

R50	Very toxic to aquatic organisms.
R62	Possible risk of impaired fertility.

Abbreviations and acronyms:

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
Flam. Liq. 3:	Flammable liquids, Hazard Category 3
Acute Tox. 4:	Acute toxicity, Hazard Category 4
Skin Corr. 1B:	Skin corrosion/irritation, Hazard Category 1B
Repr. 2	Reproductive toxicity, Hazard Category 2
STOT RE 1	Specific target organ toxicity - Repeated exposure, Hazard Category 1
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
