

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

FINEAMIN® 39F

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

1.1 Product identifier

Trade name: *FINEAMIN® 39F*

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

No further relevant information available.

Use of the substance / preparation:

Additive for steam boilers and closed circuits

1.3 Details of the supplier of the safety data sheet:

Manufacturer/Supplier:

FINEAMIN SA / FINEAMIN ASIA PTE LTD
av. des Grandes-Communes 8 CH-1213 Petit-Lancy,
Genève Tel. +41 22 879 95 00;
Fax +41 22 879 95 09; Email: geneva@fineamin.ch

1.4 Emergency telephone number

France (INRS 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
Belgium - Brüssel: +32 070/245 245

UK : Call NHS 999 in a medical emergency. If you urgently need medical help or advice but it's not a life-threatening situation, call 111 (24/7). The NHS 111 number is currently only available in certain areas. If you're outside of these areas, you should call NHS Direct on 0845 4647

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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



Skin Corr. 1C

H314: Causes severe skin burns & eye damage.

Eye Dam. 1

H318: Causes serious eye damage.

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



Signal word:

Danger

Hazard-determining components of labelling:

2-diethylaminoethanol
Cyclohexylamine

Hazard statements:

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.

P260: Do not breathe dusts or mists.

P280: Wear protective gloves/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.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

P310: Immediately call a POISON CENTER/doctor.

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:

Dangerous componets:

CAS: 100-37-8

2-diethylaminoethanol

<5%

EINECS: 202-845-2

Index number: 603-048-00-6

RTECS: KK 5075000



Flam. Liq. 3, H226;



Acute Tox. 3, H311; Acute Tox.



3, H331;

Skin Corr. 1C, H314;



Acute Tox. 4, H302;

Specific concentration limit: STOT SE 3; H335: C >=5%

CAS: 108-91-8

Cyclohexylamine

<10%

EINECS: 203-629-0

Index number: 612-050-00-6

RTECS: GX 0700000

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

SVHC: No**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.

After 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:	Do not induce vomiting; call for medical help 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: Use fire extinguishing methods suitable to surrounding conditions.

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: Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water. Do not allow the product to enter sewers/ surface water 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: No special measures required.

7.2 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.

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:

- CAS: 100-37-8 2-diethylaminoethanol

MAK (Switzerland)

- Long-term value: 50 mg/m³, 10 ppm
- H

- CAS: 108-91-8 Cyclohexylamine

WEL (Great Britain)

IOELV (EU)

- Long-term value: 41 mg/m³, 10 ppm
- Short-term value: 24.6 mg/m³, 6 ppm
- Long-term value: 8.2 mg/m³, 2 ppm
- 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: Butyl rubber, BR

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 +/-2.5
Change in condition	Melting point/Melting range: -10 °C
	Boiling point/Boiling range: Not determined.
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:	Not determined.
Density at 20 °C:	>0.88006 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.
Solvent content:	
COV (CH) :	0.00%

9.2 Other information: No further relevant information available.

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

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- 10.3 Possibility of hazardous reactions:** No dangerous reactions known.
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- 10.4 Conditions to avoid:** No further relevant information available.
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- 10.5 Incompatible materials:** No further relevant information available.
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- 10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

100-37-8 2-diethylaminoethanol	Oral	LD50	1300 mg/kg (rat)
	Dermal	LD50	300 mg/kg (rabbit)
	Inhalative	LC50/4h	5 mg/l (mouse)
108-91-8 Cyclohexylamine	Oral	LD50	156 mg/kg (rat)
	Dermal	LD50	277 mg/kg (rabbit)

Primary irritant effect:

On the skin: Causes severe skin burns and eye damage.

On the eyes: Causes serious eye damage.

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

Additional toxicological information:

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

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-DIETHYLAMINOETHANOL, CYCLOHEXYLAMINE)

IMDG, IATA

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (2 - DIETHYLAMINOETHANOL, CYCLOHEXYLAMINE)

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"	3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (2-DIETHYLAMINOETHANOL, CYCLOHEXYLAMINE), 8, III
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SECTION 15 – REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**
Directive 2012/18/EU**Named dangerous substances - ANNEX I** None of the ingredients is listed.**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.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.
H361f	Suspected of damaging 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)
VOCV:	Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
PBT:	Persistent, Bioaccumulative and Toxic
SVHC:	Substances of Very High Concern
vPvB:	very Persistent and very Bioaccumulative
Flam. Liq. 3:	Flammable liquids – Category 3
Acute Tox. 4:	Acute toxicity – Category 4
Acute Tox. 3:	Acute toxicity – Category 3
Skin Corr. 1B:	Skin corrosion/irritation – Category 1B
Skin Corr. 1C:	Skin corrosion/irritation – Category 1C
Eye Dam. 1:	Serious eye damage/eye irritation – Category 1
Repr. 2:	Reproductive toxicity – Category 2