

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

FINEAMIN® 91

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

1.1 Product identifier

Trade name: **FINEAMIN® 91**

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 cooling system

1.3 Details of the supplier of the safety data sheet:

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. 1A **H314:** Causes severe skin burns.

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 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.

P103: Read label before use.

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.

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:

CAS: 7664-93-9

H2SO4 - Sulphuric Acid

1,0-10%

EINECS: 231-639-5

C
R35

CAS: 2809-21-4

HEDP - Etidronic acid

2,5-25%

EINECS: 220-552-8

Xn
R22, R37/38

CAS: 37971-36-1

PBTC - 2-phosphonobutane-1,2,4-
tricarboxylic acid

2,5-25%

EINECS: 253-733-5

C
R34**SECTION 4 - FIRST AID MEASURES****4.1 Description of first aid measures****Mixtures****General information:**

Immediately remove any clothing soiled by the product.

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 skin contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

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:** 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:** Do not store together with acids.
- 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:

Additional information:

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

8.1 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:
Protection of hands:**

Not required.



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:	Ca. 2.5 (+/- 1,5)
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:	Not determined.
Density at 20 °C:	1,1 g/cm ³ (+/- 0,1)
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:

64665-57-2	Tolyltriazol	Oral	LD50	720 mg/kg (Rat)
7664-93-9	H2SO4	Oral	LD50	2140 mg/kg (Rat)
2809-21-4	HEDP	Oral	LD50	1800 mg/kg (Rat)
37971-36-1	PBTC	Oral	LD50	3094 mg/kg (Rat)

Primary irritant effect:

On the skin:	Acid effect on skin and mucous membranes.
On the eyes:	Acid 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: <i>Corrosive</i> <i>Irritant</i> Swallowing will lead to an acid effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

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:

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

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

UN3265

14.2 UN proper shipping name

ADR	3265 CORROSIVE LIQUID, ACID, ORGANIC, N.O.S. (Tolyltriazol, H2SO4, HEDP, PBTC)
IMDG, IATA	3265 CORROSIVE LIQUID, ACID, ORGANIC, N.O.S. (Tolyltriazol, H2SO4, HEDP, PBTC)

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"	3265 CORROSIVE LIQUID, ACID, ORGANIC, N.O.S. (Tolyltriazol, H2SO4, HEDP, PBTC), 8, III
------------------------------	---

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:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.

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
Acute Tox. 4:	Acute toxicity, Hazard Category 4
Skin Corr. 1A:	Skin corrosion/irritation, Hazard Category 1A
Eye Irrit. 2:	Serious eye damage/eye irritation, Hazard Category 2
