Actisan-5L

Safety Data Sheet
according to Regulation (EC) no. 1907/2006 as amended by Regulation (EU) 2015/830

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

1.1 Product identifier

Trade name Actisan-5L

1.2 Relevant identified uses and uses advised against

Relevant identified uses Disinfectant for surfaces.
Uses advised against Simultaneous use with detergents.

1.3 Details of the manufacturer or supplier

Supplier VEIP bv
Address Molenvliet 1
3960 BB Wijk bij Duurstede
The Netherlands
Telephone number +31 343 57 22 44
Fax +31 343 57 71 04
E-mail address info@veip.nl

1.4 Emergency telephone number

Emergency +31 343 57 22 44
Medical information

Netherlands	+31 30 274 88 88	National Poisons Information Centre, only for healthcare professionals
United Kingdom	844 892 0111	National Poisons Information Service

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

According to Regulation (EC) No. 1272/2008

Hazard classes	**Classification**
Acute toxicity	Acute Tox. 4, H302
Skin corrosion/irritation	Skin Irrit. 2, H315
Serious eye damage/eye irritation	Eye Irrit. 2, H319
Specific target organ toxicity – single exposure	STOT SE 3, H335
Hazardous to the aquatic environment	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

For full text of Hazard statements: see subsection 2.2.

2.2 Label elements

2.2.1 Hazard pictograms

2.2.2 Signal word

WARNING

2.2.3 Hazard statements

H302	Harmful if swallowed.
H315	Causes skin irritation
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.

2.2.4 Precautionary statements

P280	Wear protective gloves / protective clothing / eyeprotection.
P273	Avoid release to the environment.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301 + P312	IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell.
P402 + P404	Store in a dry place. Store in a closed container.

2.3 Other hazards

The product does not meet the criteria for PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances Not applicable.

3.2 Mixtures

Ingredients		Classification	Percentage
Sodium dichloroisocyanurate dihydrate			> 99
CAS-No.	51580-86-0	Acute Tox. 4, H302	
EC-No.	220-767-7	Skin Irrit. 2, H315	
Registration No.	01-2119489371-33	Eye Irrit. 2, H319	
		STOT SE 3, H335	
		Aquatic Acute 1, H400	
		Aquatic Chronic 1, H410	
Additives			< 1
CAS-No.	Not applicable	Not classified.	
EC-No.	Not applicable		
Registration No.	Not applicable		

For the full text of the hazard statements mentioned in sections 2 and 3 see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

4.1.1 Inhalation

Fresh air, rest. Get medical advice / attention if you feel unwell.

4.1.2 Skin contact

Remove contaminated clothes, rinse skin with water or shower.

4.1.3 Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do; continue rinsing. If eye irritation persists: call a doctor / physician.

4.1.4 Ingestion

Rinse mouth, drink plenty of water and call a doctor / physician.

4.2 Most important symptoms and effects, both acute and delayed

4.2.1 Acute symptoms and effects from exposure

No known effects and symptoms in normal use.

4.2.2 Delayed symptoms and effects from exposure

May cause a disease of the mucous membranes of the upper respiratory tract in persons who are hypersensitive to chlorine.

Intensive contact with the skin may cause skin disease (eczema).

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Powder, water spray.

5.1.2 Unsuitable extinguishing media

Carbon dioxide.

5.2 Special hazards arising from the substance or mixture

In case of fire the product emits toxic fumes including hydrogen chloride, nitrogen- and carbonoxides.

5.3 Advice for firefighters

5.3.1 Protective actions

In case of fire: keep containers cool by spraying with water.

5.3.2 Special protective equipment

Protective clothing, self-contained respiratory protective.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Protective clothing, gloves, boots. Respiratory protection.

6.2 Environmental precautions

Keep away from drains, surface water or soil.

6.3 Methods and material for containment and cleaning up

Scoop up spilled product and store in a drum. Carefully collect remainder. Wash away any residue with water. Collect rinse water.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use in well-ventilated areas only.
Wear suitable protective clothing and gloves.

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Fire and explosion prevention

Store in a dry place. Keep cool.
Keep in a fire-resistant place separate from acids, flammable substances, reducing agents and ammonium compounds.

7.2.2 Protection against ambient influences

Protect against contact with hot surfaces (steam pipelines) and direct sunlight.
Suitable materials for packaging: approved plastic.

7.3 Specific end use(s)

Fogging of the product is not allowed.

SECTION 8: Exposure controls / personal protection

8.1 Controleparameters

8.1.1 Exposure limit values

	mg/m³	ppm	Indicative
TWA limit value 8 hours	not established		
TWA limit value 15 min.	not established		

8.2 Exposure controls

8.2.1 Technical measures

Ventilation and local extraction.

8.2.2 Individual protective measures at accidental release

Eye protection

Upon release of dust: safety goggles (NEN-EN 166).

Skin protection

- **Hands**

Gloves butyl rubber 0.7 mm gloves	Breakthrough time > 8 hours (NEN-EN 374)
Gloves nitril rubber 0.7 mm gloves	Breakthrough time > 8 hours (NEN-EN 374)
Gloves inear low-density polyethylene (LLDPE) 0.75 mm gloves	Breakthrough time > 8 hours (NEN-EN 374)

- **Other measures**

  Protective clothing (NEN-EN 340).

Respiratory protection

Upon release of dust: Respirator filter mask type P2 (NEN-EN 143).

Thermal hazards

Not applicable.

8.2.3 Environmental exposure controls

Remove contaminated air from the local extractor and drain waste water in accordance with local environmental regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

– **form**	Tablet
– **colour**	White
Odour	Chlorine-like
Odour threshold (mg/ m³)	No data available.
pH (5% solution)	6.7
Melting point / freezing point (˚C)	240 (decomposition)
Boiling point (˚C) at 1013 hPa	Not applicable.
Flash point (˚C)	Not applicable.
Explosive limits, g/m³ in lucht	No data available.
Vapour pressure at 20 ˚C (hPa)	< 0.00006 (anhydrous)
Relative density (water=1)	No data available.
Solubility in water at 20 ˚C (g/l)	Ca. 250
Partition coefficient (log K octanol/water)	– 0.0056
Auto-ignition temperature (˚C)	No data available.
Decomposition temperature (˚C)	240
Explosive properties	No data available.
Oxidising properties	A solution in water has oxidising properties.

9.2 Other safety information

Density (kg/m³)	Ca. 980
Bulk density (kg/l)	0.5 – 1.0

SECTION 10: Stability and reactivity

10.1 Reactivity
A solution in water has oxidising properties.
No hazardous reaction if instructions for handling and storage are observed.

10.2 Chemical stability
The product is stable when stored at normal ambient temperature.
The product may lose crystal water by prolonged exposure to temperatures above 60 °C.
Decomposes slowly on exposure to moisture.

10.3 Possibility of hazardous reactions
Reacts violently with flammable substances and reducing agents.
Forms explosive compounds with ammonia salts, urea and nitrogen similar components.
Reacts with acids with the formation of toxic chlorine gas.

10.4 Conditions to avoid
Storage temperatures > 55 °C and moisture. Ignition sources (open flames, hot surfaces and sparks).

10.5 Incompatible materials
Acids, flammable substances, reducing agents and ammonium compounds.

10.6 Hazardous decomposition products
Does not decompose if used and stored as directed.
Chlorine-containing gases can be released upon decomposition through contact with moisture.

SECTION 11 Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity

– **Oral**	LD50 (rat)	1 671 mg/kg
– **Dermal**	LD50 (rabbit)	> 5000 mg/kg
– **Inhalation**	LC50 (rat, 4 hours)	0.27 – 1.17 mg/L (dust)

b) Skin corrosion/irritation
Released dust is irritating to the skin.

c) Serious eye damage/irritation
Released dust is irritating to eyes.

d) Respiratory or skin sensitisation
The substance is not sensitizing.

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

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

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

h) Specific target organ toxicity – single exposure
Liberated dust may irritate the respiratory tract.

i) Specific target organ toxicity – repeated exposure
No data available.

j) Aspiration hazard
No data available.

11.2 Likely routes of exposure
The substance can be absorbed into the body by inhalation of dust and after ingestion.

11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure
See section 4.2.2.

SECTION 12: Ecological information

12.1 Toxiciteit

–	**Fish**	LC50, 96 hours	0.23 mg/L
–	**Crustaceans**	LC50 Daphnia, 48 hours	0.17 mg/L
–	**Algae**	ErC50, 72 hours	872 mg/L

12.2 Persistence and degradability
Biodegradability 28 days: 2%
The product is not readily biodegradable.

12.3 Bioaccumulation potential
Bioconcentration factor (BCF): 3.25
Log K octanol/water: – 0.0056
No significant potential for bioaccumulation (BCF < 500 and log K octanol/water < 4).

12.4 Mobility in soil
Koc-value: 16
The product is very mobile in the soil.

12.5 Results of PBT and vPvB assessment
The product contains no substances to be considered as PBT or vPvB.

12.6 Other adverse effects
The product is hazardous to water.
German hazard codes for water (WGK): 2.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product disposal
Dispose of to a registered incineration plant for solids, or as hazardous waste in accordance with local regulations.
Do not dispose of the product in residual household waste.
Prevent the waste product reaching sewers.
Packaging disposal
Dispose of packagings with remainders as hazardous waste.
Cleaned packagings may be reused.
Waste treatment-relevant information
European list of waste (EURAL): 07 04 13.

SECTION 14: TRANSPORT INFORMATION

14.1	**UN number**	3077
14.2	**Proper shipping name**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (sodium dichloroisocyanurate dihydrate)
14.3	**Transport hazard class(es)**	9
14.4	**Packing group**	III
14.5	**Environmental hazards**	
	Marine pollutant	Yes

Marking of packages	SP 375: No LQ mark for single or inner packagings with 5 kg or less. Fish / tree symbol for single or inner packaging with more than 5 kg.

14.6 Additional information

Label	9
Description	SP 375: Trade name or nature of goods (disinfectant) for single or inner packagings with 5 kg or less.
Tunnel restriction code	(E)
Hazard identification number	90
Transport category	3
Limited quantity (LQ)	5 kg
Exempted quantity	E1

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION15: Regulatory information

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

The applicable EU-/national regulations have to be observed.

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for sodium dichloroisocyanurate dihydrate.

SECTION 16: Other information

16.1 Information on revision

Previous version	11.1
Reason for changes	Adaptation of the subsection 14.5 and 14.6.

16.2 Abbreviations and acronyms

CAS	Chemical Abstracts Service (Division of the American Chemical Society)
CLP	Classification, Labelling and Packaging
EC50	Effect Concentration, 50 percent (concentration at which 50 per cent of animals show a particular effect)
EC	European Community
IC50	Inhibitory Concentration, 50 percent (concentration at which 50 per cent of algae show growth inhibition)
LC50	Lethal Concentration, 50 percent (concentration at which 50 per cent of animals die)
LD50	Lethal Dose, 50 percent (dose at which 50 per cent of animals die)
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
TWA	Time Weighted Average
vPvB	very Persistent and very Bioaccumulative

16.3 Literature references and sources for data

ECHA dossier and ChemCards.

16.4 Full text of Hazard statements which are not written out in full under Sections 2 to 15

H400	Very toxic to aquatic life.

16.5 Training recommendations

Ensure that there is proper information, instruction and training available for users.