

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

Preparation

Enviro-Chem™ Cx

Company

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2. HAZARD IDENTIFICATION

Human health effets

May cause: eye irritation, skin irritation

May cause skin sensitization in susceptible individuals

Environmental effects

No terrestrial environmental hazard

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition

Aqueous solution containing surfactants

All components are listed in EINECS

Special components:

NAME	CAS #	CONCENTRATION	SIGNS OF RISKS	RISKS PHRASES
Citric acid monohydrate	77-92-9	4%	Xi	R-36 : eye irritant
$\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	7758-99-8	3%	Xn	R-22 R36/38 R50/53 : noxious by ingestion – Eye and skin irritant – Very toxic for aquatic organisms – May on the long term become dangerous for the aquatic environment
$\text{Al}_2(\text{SO}_4)_3$	10043-01-3	1%	Xi	R-41: risk of serious eye injuries
Neodol	68439-46-3	10%	Xn	R-22 : noxious by ingestion

Application

Biomass odour stabilizer

4. FIRST-AID MEASURES

Skin contact

Symptoms: pain, redness

Wash immediately with plenty of water

Eye contact

Symptoms : pain, redness

Rinse immediately with plenty of water

Very soiled clothes

Take off all soiled clothes

Wash before reusing

Inhalation

Bring the person into free air

5. FIREFIGHTING MEASURES

Extinguishing media

Non flammable aqueous solution

Exposure hazards

None

Protective equipment

Firefighters, and other exposed, wear self contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective clothing, gloves and eye/face protection

Methods for cleaning up

Absorb in absorbant granules

Sweep up into containers for disposal

Wash the soiled surface with plenty of water

Refer to section 13 for disposal of spilled material

7. HANDLING AND STORAGE

Handling

Ensure adequate ventilation

Wash hands immediately after handling

Storage

Stable under normal conditions of handling and storage

Keep container tightly closed, between + 5° C and + 25° C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical measures

Work under sufficient ventilation

Exposition limit value for the worker

No TLV has been established

Respiratory protection

No special instruction

Hand protection

Wear appropriate gloves

Eye protection

Wear eye/face protection

Skin protection

Wear suitable protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	clear light blue liquid
Odor :	almond
Dynamic viscosity:	10 cp
Specific gravity:	1.058 (25 °C/25 °C)
pH:	2.3

10. STABILITY AND REACTIVITY

Conditions to avoid

pH > 9.00

Materials to avoid

ABS resins (acrylonitrile – butadiene – styrene copolymer)

Ungalvanized or oxydizable steel

Hazardous decomposition products

None

11. TOXICOLOGICAL INFORMATION**Laboratory data**

Oral DL50 (rats): > 5 000 mg/kg

Average skin irritation scores – UE (OCDE test, 24 h)

Redness : 0.39

Swelling : 0.00

Slightly irritant for the skin, but insufficiently for classification

Average eye irritation scores – EU (OCDE test, 24 h)

Conjunctiva redness: 1.94

Conjunctiva swelling: 1.39

Iris affectation: 0.50

Cornea troubles: 1.33

Slightly irritant for the eyes, but insufficiently for classification

Human information

Repeated or prolonged contact with the skin : irritation

May provoke sensibilization to sensitive persons

Ames test

The product does not exhibit any mutagenic activity under the conditions of the test

12. ECOLOGICAL INFORMATION**Acute Immobilisation Test (48 h) to Daphnia magna STRAUS**

The concentration with NOEC was found to be 4 mg/l after 48 h of exposure

Toxicity to bacteria – Dehydrogenase activity (TTC-Test)Enviro-Chem Cx is not toxic in the concentrations \leq 46 mg/l to the dehydrogenase activity of the activated sludge of a municipal sewage treatment plant**Respiration Inhibition Test with Activated Sludge**

The inhibition of Enviro-Chem Cx to activated sludge of a municipal sewage treatment plant in the neutralized disposal concentration of 1250 mg/l was 22 %

Toxicity to bacteria Pseudomonas putida – Cell growth Inhibition testThe product is not toxic in concentrations \leq 1000 mg/l to Pseudomonas putida, when adjusting the stock solution to neutral pH range (7.3)**Ready Biodegradability Modified Sturmtest**

The product in neutralized solution is not readily biodegradable in a 10 day window but after 17 days the pass level of a biodegradation 60 % is reached

Inherent Biodegradability

After 6 days an elimination/degradation rate of 100 % was reached. The product must be regarded to be inherent biodegradable/eliminated

13. DISPOSAL CONSIDERATIONS

Small quantities : burn in proper incinerator

Large quantities : use adequate absorbing material and dump it in specialized landfills

14. TRANSPORT INFORMATION

ADR info:

UN 3082 – Environmentally hazardous substance, liquid, n.o.s., contains copper sulphate pentahydrate, 9, III, ADR

IMDG info:

UN 3082 – Environmentally hazardous substance, , liquid, n.o.s., contains copper sulphate pentahydrate, class 9, 11°C.

PG: III

MARINE POLLUTANT

IATA info:

UN 3082, Environmentally hazardous substance, liquid, n.o.s., contains copper sulphate pentahydrate, class 9.

PG: III

15. REGULATORY INFORMATION

UE label

This product has been classified in accordance with the UE Dangerous Preparations Directive 88/379

Toxic for aquatic organisms.

May, on the long term, become dangerous for the aquatic environment

16. OTHER INFORMATION

R36 : Eye irritant - R22 : noxious by ingestion - R-41: risk of serious eye injuries - R36/38 : irritant for skin and eyes - R50/53: very toxic for aquatic organisms - Can affect negatively on the long term the aquatic environment.

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