



Material Safety Data sheet
According to 1907/2006/EC, Article 31 (REACH)

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JMRO-200
Anti Scalant Additive

1. COMPANY IDENTIFICATION.

Application of the substance /the preparation

Formulation additive

AntiScalant

for Reverse Osmosis Water treatment

2.COMPOSITIONS / INFORMATION ON INGREDIENTS

Chemical characterization: Solution: In water

CAS REGISTRATION NO	APPROX. WEIGHT PERCENT	ACGIH TLV	ACGIH UNIT	OSHA PEL	OSHA UNIT
9003-01-4	%	NA	mg/M3 (ceiling)	NA	mg/M3 (ceiling)
6419-19-8	%	NA	NA	NA	NA
Alkalinity Builder	%	NA	NA	NA	NA

3. PHYSICAL & CHEMICAL PROPERTIES.

General Information:

Boiling Point / Boiling Range:	Not determined.
Flash Point:	> 100 C°
Ignition Temperature:	Not applicable
Solubility in / Miscibility with Water:	Completely Miscible
Specific Gravity:	1.3
Decomposition Temperature:	NA
Danger of explosion:	Product is not explosives
EVAPORATION RATE:	As water
PH:	≤ 5.5
Color:	Pale Yellow Liquid
Smell:	Characteristic

4.FIRE & EXPLOSION HAZARD DATE

After Swallowing:

Rinse out mouth & then drink plenty of water (approx.500ml)

Suitable Extinguishing agents.

Use fire fighting measures that suites the environment.

CO₂, extinguishing powder or water jet, fight larger fires with foam.

For safety reasons unsuitable extinguishing agents water with a full water jet.

Special Hazards caused by the material, its products of combustion or flue gases.

Fire can cause release of carbon monoxide (CO)

Protective equipment: Put on breathing apparatus.**Person-related safety precautions;** wear protective clothing.**Measure for Environment Protection.** Do not allow concentrated solutions to enter drainage system surface or ground water.**Measure for cleaning /collecting:** Use neutralizing agent.

Absorb with liquid-blending material (Sand, diatomite, acid binder, unverse binders)

Dispose of contaminated materials as waste according to item 13.



5.STABILITY & REACTIVITY

Material to be avoided:

Dangerous reactions react with alkali

Dangerous compositions products: No dangerous decomposition products known.

Thermal decomposition /Conditions to be avoided.

No decomposition if used according to Specification.

6.HAZARD IDENTIFICATION

Information Pertaining to Particular for man & Environment.

R36 irritant to eyes.

Classification System

The classification is in line with current EC lists. It is expended, however by information From technical literature & by information furnished by suppliers companies.

Because of the altered limit of concentration for the classification of mixtures according To the CLP regulations (EC) NO.1272/2008,the CLP-Classification is as show right side.

H318-Causes serious eye damage.

Prevention:

P280 Wear protective gloves / protective clothing / eye protection / face protection.

Response:

P305+P351+P338 If in Eyes: Rinse consciously with water for several minutes.

GHS Label elements



CORROSIVE



Irritant



Remove contact lenses, if present & easy to do. Continue rinsing.

7. HANDLING & STORAGE

Handling:

Information for Safe Handling:

When diluting, always stir product in standing water.

Ensure good ventilation / Exhaustion at the work place.

Information about Protection against explosion & fire

No special measures required.

Storage:

Requirement to be met by store rooms & Container.

Store in the original container.

Use Polyolefin containers.

Do not use light alloy containers.

Information about Storage in one Common facility:

Do not store together with Alkalis (Caustic Solution).

Further Information about Storage Conditions:

Store in Cool dry conditions in well sealed container protect from frost.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



PROTECTIVE EQUIPMENT:

Additional Controls & Personal Protection.

No further data; see item 7.

Component with critical values that require monitoring at the workplace:

Additional Information: The list that was valid during compilation was used as basis.

General protective & hygienic measure.

The usual precaution measures should be adhered to in handling the chemicals.

Instantly remove any soiled & impregnated garments.

Wash hands during break & when you finish work.

Avoid contacts with the eyes & skin.

Protection of Hands:

Protective gloves:

In case of splash contact at least protection index 2 recommended, according to more than 40 min. penetration time [EN 374].

Breathing Equipments;

Use breathing protection only when aerosol or mist is formed.

Filter A/P2 [DIN EN 141].

Materials of gloves;

Butyl rubber, BR

Fluorocarbon rubber (viton)

Nitrile rubber, NBR

Natural rubber, NR

Chloroprene glove.

Penetration time of glove material.

The exact break through time has to be found out by the manufacturer of the protective gloves & has to be observed.

Not suitable are gloves made of the following materials: Leather gloves.

Eye protection: Tightly sealed safety glasses [DIN 58211, EN 166]

Body Protection: Light weight protective clothing.



9.FIRST AID MEASURES

General Information Instantly removes any clothing soiled by the products.

After Inhalation: Supply fresh air, Consult doctor in case of symptoms.

After Skin Contact: Wash with water & Soap, if skin irritation continues consult a doctor.

After eye Contact, Rinse opened eyes for several time under running water, Then consult doctor.

10. TOXICOLOGICAL INFORMATION.

Acute Toxicity:

Primary irritant effect;

On the skin; no irritant effect.

On the Eye; Irritant effect.

Sensitization: no sensitization effect known.

Additional Toxicological Information:

11. ECOLOGICAL INFORMATION

The product shows the following danger according to the calculation methods of the general EC Classification guidelines for preparation as issued in the latest version:

Information about elimination (Persistence & degradability);

Other Information:

Easy elimination possibly by flocculation or absorption by sludge.

Behavior in environment system;

Components

Products should not get into higher quantities in to waste water because it may act as a plant nutrient & precipitate heavy metals.

Ecotoxicological effect:

Other information: No VOC according to EC-directive 1999/13/EC.

Additional ecological Information:

General Notes:

Do not allow undiluted products or large quantity of it to reach ground water, water bodies or sewage system.

12.DISPOSAL CONSIDERATION

Recommendation:

Must not be disposed all together with household garbage, do not allow products to reach sewage system, Must be specially treated in adherence to official regulation.

European waste catalogue.

16 03 05 Organic waste containing dangerous substance.

Unclear Packaging's

Recommendations:

Empty contaminated packaging thoroughly. They can be recycled after thorough & proper cleaning. Packaging that cannot be cleaned are to be disposed in the same manner as the product.

Dispose off the packaging according to regulation on the disposal of packaging.

Recommended Cleaning agent: Water, if necessary which cleaning agent.



13. TRANSPORT INFORMATION

Classification for Road & Rail Transport: Not regulated for transport.

Classification for Sea Transport (IMO-IMDG): Not regulated for transport

Transport in bulk according to Annex 1 or 11
Regulated for transport
Of MARPOL 73/78 & the IBC or IGS Code
Consult IMO regulations before transporting
Ocean bulk.

Classification for Air Transport (IATA/ICAO): Not

This information is not intend to convey all specific regulatory or operational requirements / information relating to this product. Transport classification may vary by container volume & may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable law, regulations & rules relating to the transportation of the material.

14. REGULARY INFORMATION

Designation according to EC guidelines:

The product has been classified & labeled in accordance with EC directive/ordinance on hazardous material (Gefstoffs, necessary). Observe the normal safety regulations when handling chemicals.

Code letter & Hazard designation of Product:

C Corrosive

N dangerous for the environment

Hazards determining components of Labeling:

Sulphur acid

Zinc Chloride

Risk Phrases:

35

Cause severe burns.

51/53

Toxic to aquatic organisms may cause long-term
Adverse effect in the aquatic environment.

Safety Phrases:

26

In case of contact with eyes rinse immediately with plenty of water & seek
medical advice

28

After contact with skin wash immediately with plenty of water.

36/37/39

Wear suitable protective clothing, gloves & eye/face protection.

45

In case of accident or you feel unwell, see medical advice immediately (Show the label
where possible)

57

Use appropriate Container to avoid environmental contamination.

60

This material & its container must be disposed of as hazardous waste.

Nation regulations

Information about limitation of use:

Employment restriction concerning young person must be observed.

Decree to be applied in case of technical faults:

Critical quantity values according to regulations on accident should be adhered to.

Water Hazard Class: WGK: 3 high water hazard risk (German regulation)

Other regulations, limitations & prohibitive regulations.

BG-information M004 irritant/Corrosive substance (German regulation)



15.OTHER INFORMATION

This data are based on our present knowledge, however they shall not constitute as guarantee for any special products features & shall not establish a legally valid contractual relationship.

Relevant R-Phrases:

22	Harmful if swallowed
34	Causes burns
35	Causes severe burns
50/53	Very toxic adverse effects in the aquatic environment.

PACKAGING & STORAGE

Standard regional Pack Sizes, 25 Kg & 230 Kg Drum & Custom packaging can be provided worldwide

It is customer's responsibility to satisfy themselves by checking with company whether information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended.

All products comply with the properties shown on current data sheet. However Jieming International does not warrant or guarantee the installation or end use of the product.

All information & particularly recommendations related to the application & end use are given in good faith.

The products are guaranteed against any manufacturing defects & are sold subject to Jieming International terms & conditions.