

Product
INSTANT I-SOFT® + Addition (ON)
INSTANT DOSING TECHNOLOGY

Version: 1.0
 Printing Date: 24.04.2013

Watch® encourages and expects you to read and understand the entire MSDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1 | CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: INSTANT I-SOFT® ON

Application: Boiler Water Treatment, Non-volatile Oxygen Scavenging

Sub components	Function
I	Scale Inhibitor
SOFT	Corrosion inhibitor, Dispersant
<i>Addition:</i> ON	Non-volatile oxygen scavenger

Company Identification/Supplier
 Watch GmbH
 Fahrlachstr. 14
 D-68165 Mannheim
 Germany
 Phone: + 49 62187951-0
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Emergency information (8:00- 16:45) Phone: +49 621 87951-50

2 | HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Skin corrosion (Category 1B)
 Skin sensitization (Category 1)
 Acute aquatic toxicity (Category 1)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

May cause sensitization by skin contact.

Chronic toxicity:

Reproductive toxicity: The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity: In animal studies the substance did not cause malformations.

Genotoxicity: The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in bacteria. The substance was not mutagenic in a test with mammals.

Carcinogenicity:

No carcinogenic substances as defined by IARC, NTP and/or OSHA.

Labeling:

- **Labeling according to Regulation (EC) No 1272/2008**
This product does not require labeling according to 2008/1272/EC.
- **Labeling according to Directive 67/548/EEC or 1999/45/EC**
This product does not require labeling according to 67/548/EEC or 1999/45/EC

Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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3 COMPOSITION / INFORMATION ON INGREDIENTS

- Chemical characterization: solid mixture

#Ref	Component, name	CAS-Nr.	Classification	Hazard	Conc.
ON	proprietary	proprietary	irritant	H315, H319	<80%
I	proprietary	proprietary	none	none	<10%
SOFT	proprietary	proprietary	none	none	>10%

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non hazardous and/or present at amounts below reportable limits.

4 FIRST-AID MEASURES

- General Information:**
Take off contaminated clothes. Wash immediately with plenty of water. Continue rinsing for at least 10 minutes. If any symptom persists, seek medical attention.
- Eye contact:** Rinse immediately with plenty of running water. Continue for at least 15 minutes. Seek medical advice.
- Skin contact:** Remove contaminated clothing. Wash immediately with plenty of water. Continue for at least 15 minutes. Obtain medical advice if there are persistent symptoms..
- Inhalation:** Remove patient to fresh air, allow to rest and keep warm. In case of unconsciousness place patient stably in side position for transportation. Obtain medical advice.
- Ingestion:** First rinse mouth with water. Immediately give 1-2 glasses of water, if victim is fully conscious. Seek medical attention.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5 FIRE FIGHTING MEASURES

- Extinguishing media:** Extinguish with water spray, CO₂, foam, dry chemical
- Unusual Fire and Explosion Hazards:** This material will not burn until the water has evaporated. Residue can burn. Container may rupture from gas generation in a fire situation.
- Exposure hazards:** Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds.
- Combustion products:** Nitrogen oxides, Carbon oxides, Sulfur dioxide.
- Protective equipment:** Firefighters and other exposed, wear self-contained breathing apparatus and protective suit.

6 ACCIDENTAL RELEASE MEASURES

- The product forms a slippery surface in contact with water.
- Personal precautions:** Wear eye protection and protective clothing.
- Environmental precautions:** Keep out of drains and water courses.
- Methods for cleaning up:** Vacuum or sweep up material and placed in a designated waste container. Avoid dust formation.
- Disposal method:** The material be disposed in accordance with applicable local, state and federal regulations.

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7 HANDLING AND STORAGE

- **Handling:** Normal chemical handling. Dust mask should be used when large quantities are used in the absence of good local exhaust ventilation. Avoid the formation and deposition of dust. Take precautionary measures to avoid static charges. Wash hands after handling.
- **Storage:**
 - Shelf life: use within 12 months after cut opening the bag
 - Protect from sun. Store in a dry, cool place (temp ≤ 35°C). Keep container sealed and dry.
- The relevant fire protection measures should be noted.

8 EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure limit: no specific value; the national exposure limit for dust should be observed.

Personal protective equipment:

- **Respiratory protection:** Respiratory protection if dust is formed. In case of insufficient ventilation, use an appropriate approved particulate respirators (for example EN 143 or 149, type P2 or FFP2).
- **Eye protection:** Safety glasses with side-shields (frame goggles). Where eye contact or dusty conditions may be likely, dust tight goggles are recommended.
- **Hands:** Chemicals resistant gloves (EN 374) Nitril, PVC or chloroprene protective gloves.
- **Skin protection:** Wear appropriate protective clothing. Avoid skin contact with the spilled product.
- **General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

9 PHYSICAL AND CHEMICAL PROPERTIES

General Information:

Physical State	solid, granulate
Appearance	white
Odor	weak, product specific
Flash point:	> 180 °C
Bulk density:	ca. 800 - 900 kg/m ³
Solubility in water at 20°C:	>200 g/l

10 STABILITY AND REACTIVITY

- **Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications. Avoid storing at high temperatures or in direct sunlight.
- **Materials to avoid:** Contact with strong oxidizing agents and acidic substances.
- **Conditions to avoid:** Heat, moisture & dust formation.
- **Hazardous decomposition products:** None when used according to specifications
 1. Decomposition products depend upon temperature, air supply and the presence of other materials.
 2. Concentrated solutions, when heated, will release sulfur dioxide, and sulfur trioxide.

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11	TOXICOLOGICAL INFORMATION
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Information on toxicological effects**Acute Toxicity:**

LD50 oral (rat): 2900 mg/kg
 LC50 inhalation rat (mg/l) > 6 mg/l (duration: 4h)

Skin corrosion/irritation

Skin - rabbit - Skin irritation

Serious eye damage/eye irritation

Eyes - rabbit - Severe eye irritation

Respiratory or skin sensitization

May cause sensitization by skin contact.

Germ cell mutagenicity: no data available

Aspiration hazard: not classified

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: no data available

Potential health effects

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion: May be harmful if swallowed. Causes burns.
Skin: May be harmful if absorbed through skin. Causes skin burns.
Eyes: Causes eye burns.

Signs and Symptoms of Exposure: Cough, Shortness of breath, Headache, Nausea, Vomiting

12	ECOLOGICAL INFORMATION
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Toxicity

- **Aquatic toxicity:**
LC50 (Leuciscus idus, 96 hours, DIN 38412 Part 15) > 395 mg/l
- **Toxicity to microorganisms:**
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.
- **Persistence and degradability:**
inorganic component cannot be eliminated with biological purification process
- **Bio-accumulative potential:**
No bioaccumulation is to be expected, $\log P(o/w) < 1$
- **Mobility in soil:**
No further relevant information available.
- **Additional ecological information:**
Do not release untreated into natural waters.

The product has not been tested. The statement has been derived from the properties of the individual components.

- **Results of PBT and vPvB assessment**
PBT: Not applicable.
vPvB: Not applicable

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13 | DISPOSAL CONSIDERATIONS

- **Recommendation:** must not be disposed together with household solid waste. Do not allow product to reach sewage system.
- **Recommendation:** Disposal must be made according to official regulations.

14 | TRANSPORT INFORMATION

- **Land Transport (ADR/RID/ADN):** Not classified as dangerous good under transport regulations
- **Sea Transport (IMDG/IMO):** Not classified as dangerous good under transport regulations
- **Air Transport (IATA/ICAO):** Not classified as dangerous good under transport regulations

15 | REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
 (Labeling according to Regulation (EC) No 1272/2008)

The substance does not require classification or labeling under the CLP regulation.

16 | OTHER INFORMATION

- This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.

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- **Hazard Rating System**

NFPA	Health	Fire	Reactivity
1	0	0	1

Recommended Uses and Restrictions

For industrial use. We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative.

- **Disclaimer:**
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