

Product
INSTANT I-SOFT® + Addition (OV)
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® **OV**

Application: Boiler Water Treatment, Volatile Oxygen Scavenging

Sub components		Function
I		Scale Inhibitor
SOFT		Corrosion inhibitor, Dispersant
<i>Addition:</i>	OV	Volatile oxygen scavenger

Company Identification/Supplier
 Watch GmbH
 Fahrlachstr. 14
 D-68165 Mannheim
 Germany
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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]

Acute toxicity, Oral (Category 4)
 Skin irritation (Category 2)
 Skin sensitization (Category 1)
 Chronic aquatic toxicity (Category 2)

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

Harmful if swallowed. Irritating to skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Carcinogenicity:

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

Labeling:

- **Labeling according to Regulation (EC) No 1272/2008**
 This product requires labeling according to 2008/1272/EC.
- **Labeling according to Directive 67/548/EEC or 1999/45/EC**
 This product requires labeling according to 67/548/EEC or 1999/45/EC



Hazard Code: Xi, N, Xn

Risk Phrase:

R5: Heating may cause an explosion.
 R22: Harmful if swallowed.
 R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment .
 R36/37/38: Irritating to eyes, respiratory system and skin .
 R20/21/22: Harmful by inhalation, in contact with skin and if swallowed .
 R43: May cause sensitization by skin contact.
 R38: Irritating to the skin.

Safety Phrase:

S36/27: Wear suitable protective clothing and gloves.
 S61: Avoid release to the environment. Refer to special instructions/ Safety data sheets.

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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.

3	COMPOSITION / INFORMATION ON INGREDIENTS
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- Chemical characterization: solid mixture

#Ref	Component, name	CAS-Nr.	Classification	Hazard	Conc.w/w
OV	Carbohydrazide	497-18-7	toxic	H302, H411	<50%
I	proprietary	proprietary	none	none	<20%
SOFT	proprietary	proprietary	none	none	>30%

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
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- **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
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- **Extinguishing media:** Extinguish with water spray, CO₂, alcohol-resistant 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.
- **Protective equipment:** Firefighters and other exposed, wear self-contained breathing apparatus and protective suit.

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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.

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

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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. Copper, Zinc, Nickel, Lead, Brass.
- **Conditions to avoid:** Heat & 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.

11 | TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity:

LD50 oral (rat): 710 mg/kg

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. Causes respiratory tract irritation.

Ingestion: Harmful if swallowed.

Skin: May be harmful if absorbed through skin. Causes skin burns.

Eyes: Causes eye irritation.

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

12 | ECOLOGICAL INFORMATION

Toxicity

• **Aquatic toxicity:**

Toxicity to fish: LC50 - *Lepomis macrochirus* (Bluegill) - 400 mg/l - 96,0 h

Toxicity to daphnia and other aquatic invertebrates: LC50 - *Daphnia magna* (Water flea) - 96 mg/l - 48 h

Toxicity to algae: EC50 - *Desmodesmus subspicatus* (green algae) - 20 mg/l - 72 h

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- **Toxicity to microorganisms:**
 Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.
- **Persistence and degradability:**
 Not readily biodegradable
- **Bio-accumulative potential:**
 No data available
- **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

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.
- **Hazard Rating System**

NFPA	Health	Fire	Reactivity
	2	1	0

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.

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