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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Print Date: 22.02.2012

Version 2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product code: 1674922
Product name: **SEALER 390 W**

Identified uses
Chemical plating of metals

Details of the supplier of the safety data sheet:

2. HAZARDS IDENTIFICATION

Classification

Indication of danger: This preparation is not classified as dangerous according to Directive 1999/45/EC

Most important hazards:

3. COMPOSITION/INFORMATION ON INGREDIENTS

Description Aqueous solution of chemicals

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

General advice: If symptoms persist, call a physician.

Skin contact: Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use.

Inhalation: Move to fresh air
Artificial respiration and/or oxygen may be necessary

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Ingestion: Call a physician or Poison Control Center immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Protection of first-aiders: Use personal protective equipment.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Extinguishing media which must not be used for safety reasons:	No information available
Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Special hazards arising from the substance or mixture:	Heating or fire can release toxic gas.
Specific methods	Water mist may be used to cool closed containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Autoignition temperature:	
Flammability Limits in Air:	
Lower:	None known
Upper:	None known

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Prevent unauthorized access. For personal protection see section 8.
Environmental precautions:	Should not be released into the environment.
Methods for cleaning up:	Clean contaminated surface thoroughly. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Dispose of in accordance with local regulations.
Methods for containment:	Prevent further leakage or spillage if safe to do so

7. HANDLING AND STORAGE

Handling

Technical measures/Precautions:

Use only in area provided with appropriate exhaust ventilation.

Safe handling advice:

Do not breathe vapours/dust. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice. Do not ingest. For personal protection see section 8.

Storage

Technical measures/Storage conditions:

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products:

See chapter: 10

Storage Temperature

Keep above

-5 °C

Keep below

40 °C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas

Individual protection measures

Respiratory protection:

In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators..

Hand protection:

Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Gloves:

nitrile rubber

Skin and body protection:

long sleeved clothing. boots.

Eye protection:

tightly fitting safety goggles. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures:

Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	liquid	Colour:	white
Odour:	No information available	Specific gravity:	1.050 - 1.100
pH:	10.50 - 11.50	Boiling point:	> 100°C
Melting point:	No information available	Vapour pressure:	ca. 23 hPa
Water solubility	miscible	Solubility in other solvents:	No information available
Flash point:	Not applicable	Decomposition temperature (°C):	No information available
VOC Content(%)**:	0%	Explosive properties:	Not applicable

Explosion limits:

** Volatile organic compounds (VOC) content 814.018

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Materials to avoid:	Acids
Conditions to avoid:	No special storage conditions required.
Hazardous decomposition products:	See chapter: 5
Hazardous reactions:	None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information

Local effects

Skin contact	Prolonged skin contact may cause skin irritation
Eye contact	Contact with eyes may cause irritation
Inhalation	May cause irritation of respiratory tract
Ingestion	May be harmful if swallowed

Chronic toxicity:

Sensitization

No information available

Carcinogenic substances

No information available

12. ECOLOGICAL INFORMATION

Environmental hazard

Toxicity: No data is available on the product itself

Aquatic toxicity: No information available

Mobility: No information available.

Bioaccumulative potential: Not determined.

**Water contaminating class
(Germany)** 1

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Dispose of in accordance with local regulations.

Contaminated packaging: Empty containers should be taken for local recycling, recovery or waste disposal

EWC waste disposal No: According to the European Waste Catalogue, Waste Codes are not product specific, but application specific

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

IMDG

ADR/RID

ICAO/IATA

15. REGULATORY INFORMATION

Symbol(s)

This preparation is not classified as dangerous according to Directive 1999/45/EC

Labelling:

Substances currently restricted by WEEE/RoHS (European Directive 2002/96/EC , 2002/95/EC) or ELV (European Directive 2000/53/EC):

PBDE	PBB	CrVI	Hg	Pb	Cd
-	-	-	-	-	-

Please note: Current legislation restricting the use of certain substances applies to „homogeneous material“ in finished articles being supplied to the market. Substances deposited during surface finishing may have a composition (weight percent) higher than the weight percent of the substance in the operating solution from which the deposit is made. Atotech encourages its customers to implement systems to ensure their finished products comply with the regulations in force.

International Inventories

All of the components in this product are on or exempt from the following inventories:

US TSCA, CANADA DSL / NDSL, Europe (EINECS/ELINCS/NLP), Korea, China.

International Inventory Legend

TSCA: US - Toxic Substance Control Act

DSL: Canada - Domestic Substance List

NDSL: Canada - Non-Domestic Substance List

IECSC: China - Inventory of Existing Chemical Substances China

EINECS: EU Inventory of Existing Commercial Chemical Substances

ELINCS: EU List of Notified Chemical Substances

ECL: Korea - Existing Chemicals List

AICS: Australia - Inventory of Chemical Substances

ENCS: Japan - Existing and New Chemical Substances

PICCS: Phillipines - Inventory of Chemicals and Chemical Substances

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3:

Revision Date: 22.02.2012

This data sheet contains changes from the previous version in section(s) - 2 , 3 , 4 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 15 and 16

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text