SAFETY DATA SHEET

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

**Product Name:** Polyvinyl Alcohol Dispersing Agent  
**Catalog Number:** 2376526

**Emergency Telephone Numbers:**  
HACH LANGE GmbH  
Willstätterstrasse 11  
40549 Düsseldorf, Germany  
(+49 (0) 6131 19240)  
(+49-(0)211-52880  
**SDS Number:** M00527  
**Chemical Name:** Not applicable  
**Chemical Formula:** Not applicable  
**Chemical Family:** Not applicable  
**Use of the substance/preparation:** Dispersing Agent / Stabilizer  
**CAS No.:** Not applicable  
**Hazard:** May cause eye irritation.  
**Date of MSDS Preparation:**  
Day: 12  
Month: 01  
Year: 2006  
**Additional Emergency Response Numbers:** Austria: +49 (0)6131 19240, Belgium: +32 -(0)70 -245245, France: +33 -(0)1-40370404, Italy: +39 -02 -66101029, Netherlands: + 31 -(0)30 -2748888, Switzerland: +41 -(0)1 -2515151

2. COMPOSITION / INFORMATION ON INGREDIENTS

**Polyvinyl Alcohol**  
**EEC Number:** 2091833  
**CAS No.:** 9002895  
**Percent Range:** < 5,0  
**Percent Range Units:** weight / volume  
**Ingredient EEC Symbol:** Not applicable  
**Ingredient R phrase(s) (R phrase details given in Heading 16):** Not applicable  
**TLV:** Not established  
**PEL:** Not established  
**EU Occupational Exposure Limits:** 3 mg/m³, Inhalable dust

**Demineralized Water**  
**EEC Number:** 2317912  
**CAS No.:** 7732-18-5  
**Percent Range:** >95,0  
**Percent Range Units:** volume / volume  
**Ingredient EEC Symbol:** Not applicable  
**Ingredient R phrase(s) (R phrase details given in Heading 16):** Not applicable  
**TLV:** Not established  
**PEL:** Not established  
**EU Occupational Exposure Limits:** Not established

**Other components, each**  
**EEC Number:** Not applicable  
**CAS No.:** Not applicable  
**Percent Range:** < 0,1  
**Percent Range Units:** weight / volume
3. HAZARDS IDENTIFICATION

Emergency Overview:
Appearance: Purple/brown solution
Odor: Slight iodine
EU Symbols: Not applicable
R PHRASES: Not applicable

Protective Equipment:

Potential Health Effects:
Eye Contact (EC): May cause irritation
Skin Contact (EC): No effects are anticipated
Skin Absorption (EC): No effects anticipated
Target Organs (SA E): Not applicable
Ingestion (EC): Very large doses may cause: abdominal cramps
Target Organs (Ing E): None Reported
Inhalation: No effects anticipated
Target Organs (Inh E): Not applicable

Medical Conditions Aggravated: None reported
Chronic Effects: Chronic overexposure may cause anemia

Cancer / Reproductive Toxicity Information:
An ingredient of this mixture is: IARC Group 3: Non-classifiable Polyvinyl Alcohol
Additional Cancer / Reproductive Toxicity Information: Contains an experimental carcinogen.

Toxicologically Synergistic Products: None reported

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for 15 minutes. Call physician.
Skin Contact (First Aid): Wash skin with plenty of water.
Ingestion (First Aid): Give large quantities of water. Call physician immediately.
Inhalation: None required.

5. FIRE FIGHTING MEASURES

Flammable Properties: Material will not burn.
Hazardous Combustion Products: This material will not burn.
Fire / Explosion Hazards: None reported
Static Discharge: None reported
Mechanical Impact: None reported
Extinguishing Media: Use media appropriate to surrounding fire conditions
Extinguishing Media NOT To Be Used: Not applicable
Fire Fighting Instruction: As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Spill Response Notice:
Only persons properly qualified to respond to an emergency involving hazardous substances should respond to a spill involving chemicals. See Section 13, Special Instructions for disposal assistance.
Containment Technique: Absorb spilled liquid with non-reactive sorbent material. Stop spilled material from being released to the environment.
Clean-up Technique: Cover spilled material with an alkali, such as soda ash or sodium bicarbonate. Scoop up slurry into a large beaker. Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. Flush reacted material to the drain with a large excess of water. Decontaminate the area of the spill with a soap solution.

Evacuation Procedure: Evacuate as needed to perform spill clean-up. If conditions warrant, increase the size of the evacuation.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes. Wash thoroughly after handling. Maintain general industrial hygiene practices when using this product.
Storage: Keep container tightly closed when not in use.
Special Packaging Instructions: Not applicable
Use of the substance/preparation: Dispersing Agent / Stabilizer

8. EXPOSURE CONTROLS / PROTECTIVE EQUIPMENT

Engineering Controls: Maintain general industrial hygiene practices when using this product.
Personal Protective Equipment:
- Eye Protection: safety glasses with top and side shields
- Skin / Hand Protection: disposable latex gloves
- Inhalation Protection: adequate ventilation

Precautionary Measures: Avoid contact with eyes. Wash thoroughly after handling.
TLV: Not established
PEL: Not established
EU Occupational Exposure Limits: Not established

9. PHYSICAL / CHEMICAL PROPERTIES

Appearance: Purple/brown solution
Physical State: Liquid
Odor: Slight iodine
pH: 5.4
Vapor Pressure: Not determined
Vapor Density (air = 1): Not determined
Boiling Point: 98°C (208.4°F)
Melting Point: 0°C (32°F)
Flash Point: Not applicable
Method: Not applicable
Autoignition Temperature: Not applicable
Flammability Limits:
- Lower Explosion Limits: Not applicable
- Upper Explosion Limits: Not applicable
Specific Gravity (water = 1): 1.0042
Evaporation Rate (water = 1): 0.87
Volatile Organic Compounds Content: Not applicable
Partition Coefficient (n-octanol / water): Not applicable
Solubility:
- Water: Soluble
- Acid: Soluble
Other: Not determined
Metal Corrosivity:
- Steel: 0.019 in/yr
- Aluminum: 0.001 in/yr

10. STABILITY / REACTIVITY

Chemical Stability: Stable when stored under proper conditions.
Conditions to Avoid: Evaporation Extreme temperatures
Reactivity / Incompatibility: None reported
Hazardous Decomposition: Toxic fumes of: carbon dioxide carbon monoxide
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Product Toxicological Data:
LD50: None reported
LC50: None reported
Dermal Toxicity Data: None reported
Skin and Eye Irritation Data: None reported
Mutation Data: None reported
Reproductive Effects Data: None reported

Ingredient Toxicological Data: Polyvinyl Alcohol: Oral mouse LD₅₀ = 14.7 g/kg, Oral rat LD₅₀ > 20 g/kg

An ingredient of this mixture is: IARC Group 3: Non-classifiable
Polyvinyl Alcohol

12. ECOLOGICAL INFORMATION

Product Ecological Information: No information available for this product

Ingredient Ecological Information: None reported

13. DISPOSAL CONSIDERATIONS

NOTICE (Disposal): These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information. In Europe: Chemical and analysis solutions must be disposed of in compliance with the respective national regulations. Product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

14. TRANSPORT INFORMATION

I.C.A.O.:
I.C.A.O. Proper Shipping Name: Not Currently Regulated

I.C.A.O. Hazard Class: NA
I.C.A.O. Subsidiary Risk: NA
I.C.A.O. UN/ID Number: NA
I.C.A.O. Packing Group: NA

I.M.O.:
I.M.O. Proper Shipping Name: Not Currently Regulated

I.M.O. Hazard Class: NA
I.M.O. Subsidiary Risk: NA
I.M.O. UN Number: NA
I.M.O. Packing Group: NA

A.D.R.:
A.D.R. Proper Shipping Name: Not Currently Regulated

A.D.R. Hazard Class: NA
A.D.R. Subsidiary Risk: NA
A.D.R. UN-Number: NA
A.D.R. Packing Group: NA

Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit Hazard Class: 9 UN Number 3316

15. REGULATORY INFORMATION
National Inventories:

EEC Inventory Status: All ingredients used to make this product are listed on EINECS/ELINCS.

EEC Number: Not applicable

EEC Label Copy:

EU Symbols: Not applicable

R Phrases: Not applicable

S Phrases: Not applicable

16. OTHER INFORMATION


R Phrases: Not applicable

Use of the substance/preparation: Dispersing Agent/Stabilizer

Revision Summary: Updates in Section(s) 14

Legend:

NA - Not Applicable
ND - Not Determined
NV - Not Available

w/w - weight/weight
w/v - weight/volume
v/v - volume/volume

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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