

# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name** : HYDRO WATERBORNE SELF-SEALER FOR PARQUET FLOORING -  
TRANSPARENT, 50 GLOSS

**Product code** : AF5350/00

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Material uses** : Paint or paint related material.  
: Industrial use only.

### 1.3 Details of the supplier of the safety data sheet

SHERWIN-WILLIAMS Italy S.r.l.  
Via del Fiffio, 12 - 40065 Pianoro (BO)  
Italia - C.P. 18  
Cod. Fisc. e Reg. Impr. Bo 08866930152

**e-mail address of person responsible for this SDS** : regulatory.SWI@sherwin.com

### 1.4 Emergency telephone number

#### National advisory body/Poison Center

**Telephone number** : 0844 892 0111

#### Supplier

**Telephone number** : +39 051 770511

**Hours of operation** : Emergency contact available 24 hours a day

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Irrit. 2, H319

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

#### Classification according to Directive 1999/45/EC [DPD]

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Not classified.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Warning

**SECTION 2: Hazards identification****Hazard statements** : Causes serious eye irritation.**Precautionary statements****Prevention** : Wear eye or face protection. Wash hands thoroughly after handling.**Response** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**Storage** : Not applicable.**Disposal** : Not applicable.**Hazardous ingredients** : 1-Ethyl-2-Pyrrolidinone**Supplemental label elements** : Contains 1,2-benzisothiazol-3(2H)-one and reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.**Special packaging requirements**

Not applicable.

**Biocidal products regulation****2.3 Other hazards****Other hazards which do not result in classification** : None known.**SECTION 3: Composition/information on ingredients****3.2 Mixture**

| Product/ingredient name       | Identifiers                                                                               | %          | Classification                         |                                                                                                                                   | Type    |
|-------------------------------|-------------------------------------------------------------------------------------------|------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------|
|                               |                                                                                           |            | 67/548/EEC                             | Regulation (EC) No. 1272/2008 [CLP]                                                                                               |         |
| 2-Methoxymethylethoxypropanol | REACH #:<br>01-2119450011-60<br>EC: 252-104-2<br>CAS: 34590-94-8                          | >=1 - <5   | Not classified.                        | Not classified.                                                                                                                   | [2]     |
| 1-Methyl-2-Pyrrolidone        | REACH #:<br>01-2119472430-46<br>EC: 212-828-1<br>CAS: 872-50-4<br><br>Index: 606-021-00-7 | <5         | Repr. Cat. 2; R61<br><br>Xi; R36/37/38 | Skin Irrit. 2, H315<br><br>Eye Irrit. 2, H319<br>Repr. 1B, H360D (Unborn child)<br>STOT SE 3, H335 (Respiratory tract irritation) | [1] [2] |
| Propylene Glycol              | REACH #:<br>01-2119456809-23<br>EC: 200-338-0<br>CAS: 57-55-6                             | >=1 - <5   | Not classified.                        | Not classified.                                                                                                                   | [2]     |
| 1-Ethyl-2-Pyrrolidinone       | REACH #:<br>01-2119472138-36<br>EC: 220-250-6<br><br>CAS: 2687-91-4                       | >=1 - <5   | Repr. Cat. 3; R63<br><br>Xi; R41       | Eye Dam. 1, H318<br><br>Repr. 2, H361d (Unborn child) (dermal)                                                                    | [1]     |
| Ethoxylated Alcohol           | CAS: 61791-28-4                                                                           | >=0.1 - <1 | Xn; R22<br>Xi; R36<br>N; R50           | Acute Tox. 4, H302<br>Eye Irrit. 2, H319<br>Aquatic Acute 1, H400<br>Aquatic Chronic 3, H412                                      | [1]     |

### SECTION 3: Composition/information on ingredients

|  |  |  |                                                                   |                                                                      |  |
|--|--|--|-------------------------------------------------------------------|----------------------------------------------------------------------|--|
|  |  |  | See Section 16 for the full text of the R-phrases declared above. | See Section 16 for the full text of the H statements declared above. |  |
|--|--|--|-------------------------------------------------------------------|----------------------------------------------------------------------|--|

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### 4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

See toxicological information (Section 11)

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Recommended: alcohol-resistant foam, carbon dioxide, powders.

**Unsuitable extinguishing media** : Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

**Special protective equipment for fire-fighters** : Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## SECTION 6: Accidental release measures

Due to the organic solvents content of the mixture:

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.

Keep unnecessary and unprotected personnel from entering.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

### 6.3 Methods and materials for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

### 6.4 Reference to other sections

: See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

: Due to the organic solvents content of the mixture:

Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.  
In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.  
Keep away from heat, sparks and flame. No sparking tools should be used.  
Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from

## SECTION 7: Handling and storage

sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

### Information on fire and explosion protection

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapors in all cases. In such circumstances, they should wear a compressed-air-fed respirator during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.

### 7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidizing agents, strong alkalis, strong acids.

#### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight.

Keep container tightly closed.

Keep away from sources of ignition. No smoking. Prevent unauthorized access.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Contaminated absorbent material may pose the same hazard as the spilled product.

Store above 5°C (42°F) Protect from frost.

### Seveso II Directive - Reporting thresholds (in tonnes)

#### Named substances

| Name                              | Notification and MAPP threshold | Safety report threshold |
|-----------------------------------|---------------------------------|-------------------------|
| Formaldehyde concentration >= 90% | 5                               | 50                      |

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

**Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations.**

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|-------------------------|-----------------------|
|-------------------------|-----------------------|

## SECTION 8: Exposure controls/personal protection

|                               |                                                                                                                                                                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-Methoxymethylethoxypropanol | <b>EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.</b><br>TWA: 308 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours.                                                                                                             |
| 1-Methyl-2-Pyrrolidone        | <b>EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.</b><br>STEL: 80 mg/m <sup>3</sup> 15 minutes.<br>STEL: 20 ppm 15 minutes.<br>TWA: 40 mg/m <sup>3</sup> 8 hours.<br>TWA: 10 ppm 8 hours.                                        |
| Propylene Glycol              | <b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b><br>TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Particulate<br>TWA: 474 mg/m <sup>3</sup> 8 hours. Form: Sum of vapour and particulates<br>TWA: 150 ppm 8 hours. Form: Sum of vapour and particulates |

### Recommended monitoring procedures

- : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- : Regular monitoring of all work areas should be carried out at all times, including areas that may not be equally ventilated.

### DNELs/DMELs

No DNELs/DMELs available.

### PNECs

No PNECs available.

## 8.2 Exposure controls

### Appropriate engineering controls

- : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.
- : Users are advised to consider national Occupational Exposure Limits or other equivalent values.

### Individual protection measures

#### Hygiene measures

- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

- : Use safety eyewear designed to protect against splash of liquids.

#### Skin protection

#### Hand protection

#### Gloves

- : Wear suitable gloves tested to EN374.
- : Short Term Exposure less than 10 minutes Continuous use Nitrile gloves.  
Long Term Exposure Spill / For prolonged or repeated handling, use PE / PE Laminate gloves > 8 hours (breakthrough time) .

## SECTION 8: Exposure controls/personal protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.  
The breakthrough time must be greater than the end use time of the product.  
The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.  
Gloves should be replaced regularly and if there is any sign of damage to the glove material.  
Always ensure that gloves are free from defects and that they are stored and used correctly.  
The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.  
Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.  
The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

- Body protection** : Personnel should wear protective clothing.
- : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Recommended: A2P2 (EN14387). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls** : Do not allow to enter drains or watercourses.

**Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.**

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid.
- Color** : Not available.
- Odor** : Paint
- Odor threshold** : Not Available (Not Tested).
- pH** : 8
- Melting point/freezing point** : Not Available (Not Tested).
- Initial boiling point and boiling range** : 100°C
- Flash point** : Closed cup: >93.3°C
- Evaporation rate** : 0.8 (butyl acetate = 1)
- Flammability (solid, gas)** : Not Available (Not Tested).
- Burning time** : Not Available (Not Tested).
- Burning rate** : Not Available (Not Tested).
- Upper/lower flammability or explosive limits** : Lower: 1.1%  
Upper: 14%
- Vapor pressure** : 0.31 kPa [at 20°C]

## SECTION 9: Physical and chemical properties

|                                                |                                                                                                         |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Vapor density</b>                           | : 1 [Air = 1]                                                                                           |
| <b>Relative density</b>                        | : 1.04                                                                                                  |
| <b>Solubility(ies)</b>                         | : Not Available (Not Tested).                                                                           |
| <b>Solubility in water</b>                     | : Not Available (Not Tested).                                                                           |
| <b>Partition coefficient: n-octanol/ water</b> | : Not Available (Not Tested).                                                                           |
| <b>Auto-ignition temperature</b>               | : Not Available (Not Tested).                                                                           |
| <b>Decomposition temperature</b>               | : Not Available (Not Tested).                                                                           |
| <b>Viscosity</b>                               | : Kinematic (room temperature): >0.07 cm <sup>2</sup> /s<br>Kinematic (40°C): >0.205 cm <sup>2</sup> /s |
| <b>Explosive properties</b>                    |                                                                                                         |
| <b>Oxidizing properties</b>                    | : Under normal conditions of storage and use, hazardous reactions will not occur.                       |

### 9.2 Other information

|                           |                    |
|---------------------------|--------------------|
| <b>Heat of combustion</b> | : 0.000002926 kJ/g |
|---------------------------|--------------------|

## SECTION 10: Stability and reactivity

|                                                |                                                                                                                                  |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>10.1 Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.                                     |
| <b>10.2 Chemical stability</b>                 | : Stable under recommended storage and handling conditions (see Section 7).                                                      |
| <b>10.3 Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                                                |
| <b>10.4 Conditions to avoid</b>                | : When exposed to high temperatures may produce hazardous decomposition products.                                                |
| <b>10.5 Incompatible materials</b>             | : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids. |
| <b>10.6 Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.                           |

**Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

#### Acute toxicity

**SECTION 11: Toxicological information**

| Product/ingredient name | Result      | Species | Dose       | Exposure |
|-------------------------|-------------|---------|------------|----------|
| 1-Methyl-2-Pyrrolidone  | LD50 Dermal | Rabbit  | 8 g/kg     | -        |
|                         | LD50 Oral   | Rat     | 3914 mg/kg | -        |
| 1-Ethyl-2-Pyrrolidinone | LD50 Oral   | Rat     | 1350 mg/kg | -        |

**Acute toxicity estimates**

| Route               | ATE value     |
|---------------------|---------------|
| Dermal              | 69767.4 mg/kg |
| Inhalation (vapors) | 697.7 mg/l    |

**Irritation/Corrosion**

| Product/ingredient name       | Result                   | Species | Score | Exposure                | Observation |
|-------------------------------|--------------------------|---------|-------|-------------------------|-------------|
| 2-Methoxymethylethoxypropanol | Eyes - Mild irritant     | Human   | -     | 8 milligrams            | -           |
|                               | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams | -           |
|                               | Skin - Mild irritant     | Rabbit  | -     | 500 milligrams          | -           |
| 1-Methyl-2-Pyrrolidone        | Eyes - Moderate irritant | Rabbit  | -     | 100 milligrams          | -           |
| 1-Ethyl-2-Pyrrolidinone       | Eyes - Moderate irritant | Rabbit  | -     | 100 milligrams          | -           |

**Conclusion/Summary** : Not available.**Sensitization**

No data available

**Conclusion/Summary** : Not available.**Mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Teratogenicity**

No data available

**Specific target organ toxicity (single exposure)**

| Product/ingredient name | Category   | Route of exposure | Target organs                |
|-------------------------|------------|-------------------|------------------------------|
| 1-Methyl-2-Pyrrolidone  | Category 3 | Not applicable.   | Respiratory tract irritation |

**Specific target organ toxicity (repeated exposure)**

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|----------|-------------------|---------------|
| No data available       |          |                   |               |

**Aspiration hazard**

| Product/ingredient name | Result |
|-------------------------|--------|
| No data available       |        |

**Other information** : Not available.

**SECTION 12: Ecological information****12.1 Toxicity**

There are no data available on the mixture itself.  
Do not allow to enter drains or watercourses.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Product/ingredient name | Result                                                            | Species                                               | Exposure             |
|-------------------------|-------------------------------------------------------------------|-------------------------------------------------------|----------------------|
| 1-Methyl-2-Pyrrolidone  | Acute LC50 1.23 ppm Fresh water<br>Acute LC50 832 ppm Fresh water | Daphnia - Daphnia magna<br>Fish - Lepomis macrochirus | 48 hours<br>96 hours |

**12.2 Persistence and degradability**

| Product/ingredient name | Test | Result | Dose | Inoculum |
|-------------------------|------|--------|------|----------|
| No data available       |      |        |      |          |

**Conclusion/Summary** : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| No data available       |                   |            |                  |

**12.3 Bioaccumulative potential**

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| No data available       |                    |     |           |

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

**12.5 Results of PBT and vPvB assessment**

**PBT** : Not applicable.

**vPvB** : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.  
: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Yes.

**European waste catalogue (EWC)** : waste paint and varnish containing organic solvents or other dangerous substances 08 01 11\*

## SECTION 13: Disposal considerations

- Disposal considerations** : Do not allow to enter drains or watercourses.  
Dispose of according to all federal, state and local applicable regulations.  
If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.  
For further information, contact your local waste authority.
- Packaging**
- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Disposal considerations** : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
- European waste catalogue (EWC)** : packaging containing residues of or contaminated by dangerous substances 15 01 10\*
- Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|                                           | ADR/RID                                     | IMDG                                               | IATA                                        |
|-------------------------------------------|---------------------------------------------|----------------------------------------------------|---------------------------------------------|
| 14.1 UN number                            | Not regulated.                              | Not regulated.                                     | Not regulated.                              |
| 14.2 UN proper shipping name              | -                                           | -                                                  | -                                           |
| 14.3 Transport Hazard Class(es)/ Label(s) | -                                           | -                                                  | -                                           |
| 14.4 Packing group                        | -                                           | -                                                  | -                                           |
| 14.5 Environmental hazards                | No.                                         | No.                                                | No.                                         |
| Additional information                    | <u>Special provisions</u><br>Not Applicable | <u>Emergency schedules (EmS)</u><br>Not Applicable | <u>Special provisions</u><br>Not Applicable |

**This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).**

- 14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## SECTION 14: Transport information

*Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.*

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorization

##### Annex XIV

None of the components are listed.

##### Substances of very high concern

| Ingredient name        | Intrinsic property    | Status    | Reference number | Date of revision |
|------------------------|-----------------------|-----------|------------------|------------------|
| 1-Methyl-2-Pyrrolidone | Toxic to reproduction | Candidate | ED/31/2011       | 6/30/2011        |

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### Other EU regulations

**European Directive 2004/42/EC** : EU limit value for this product (A/i): 140 g/L (2010). This product contains max VOC: 140 g/L

| Product/ingredient name | Carcinogenic effects | Mutagenic effects | Developmental effects                  | Fertility effects |
|-------------------------|----------------------|-------------------|----------------------------------------|-------------------|
| 1-Methyl-2-Pyrrolidone  | -                    | -                 | Repr. 1B, H360D (Unborn child)         | -                 |
| 1-Ethyl-2-Pyrrolidinone | -                    | -                 | Repr. 2, H361d (Unborn child) (dermal) | -                 |

#### Seveso II Directive

This product is controlled under the Seveso II Directive.

##### Named substances

| Name                |
|---------------------|
| Formaldehyde (max.) |

#### National regulations

##### **Industrial use**

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

#### International regulations

### 15.2 Chemical Safety Assessment

: This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

### Abbreviations and acronyms

: ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 vPvB = Very Persistent and Very Bioaccumulative

### Key literature references and sources for data

: Regulation (EC) No. 1272/2008 [CLP]  
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 DPD = Dangerous Preparations Directive [1999/45/EC]  
 DSD = Dangerous Substances Directive [67/548/EEC]  
 IATA = International Air Transport Association  
 IMDG = International Maritime Dangerous Goods  
 Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010  
 Directive 96/82/EC, and relative amendments & additions  
 Directive 2008/98/EC, and relative amendments & additions  
 Directive 2000/39/EC, and relative amendments & additions  
 CEPE Guidelines

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification     | Justification      |
|--------------------|--------------------|
| Eye Irrit. 2, H319 | Calculation method |

### Full text of abbreviated H statements

: H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation. (Respiratory tract irritation)  
 (Respiratory tract irritation)  
 H360D May damage the unborn child.  
 (Unborn child)  
 H361d (Unborn child) Suspected of damaging the unborn child in contact with skin.  
 (dermal)  
 H400 Very toxic to aquatic life.  
 H412 Harmful to aquatic life with long lasting effects.

### Full text of classifications [CLP/GHS]

: Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4  
 Aquatic Acute 1, H400 AQUATIC HAZARD (ACUTE) - Category 1  
 Aquatic Chronic 3, H412 AQUATIC HAZARD (LONG-TERM) - Category 3  
 Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2  
 Repr. 1B, H360D TOXIC TO REPRODUCTION (Unborn child) - Category 1B  
 (Unborn child)  
 Repr. 2, H361d (Unborn child) TOXIC TO REPRODUCTION (Unborn child) (dermal) - Category 2  
 (dermal)  
 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2  
 STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 (Respiratory tract irritation)

## SECTION 16: Other information

**Full text of abbreviated R phrases** : R61- May cause harm to the unborn child.  
R63- Possible risk of harm to the unborn child.  
R22- Also harmful if swallowed.  
R41- Risk of serious damage to eyes.  
R36- Irritating to eyes.  
R36/37/38- Irritating to eyes, respiratory system and skin.  
R50- Very toxic to aquatic organisms.

**Full text of classifications [DSD/DPD]** : Repr. Cat. 2 - Toxic to reproduction category 2  
Repr. Cat. 3 - Toxic to reproduction category 3  
Xn - Harmful  
Xi - Irritant  
N - Dangerous for the environment

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**Date of previous issue** : No previous validation.  
: If there is no previous validation date please contact your supplier for more information.

**Version** : 1

### Notice to reader

*It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.*