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MATERIAL SAFETY DATA SHEET

Regulation (EC) N. 1907/2006 - REACH

1. PRODUCT AND COMPANY IDENTIFICATION

Product name **POLYVINYL ALCOHOL** Code: 011025-01-04-20-25

Description: **Partially hydrolyzed polyvinyl alcohol with low molecular weight.**

Distributor: **C.T.S. S.r.l. - Via Piave N. 20/22 - 36077 ALTAVILLA VICENTINA (VI) – ITALIA**
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Emergency telephone number: **+39/0444/349088**

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

The product is not classified as hazardous under the provisions of Directives 67/548/EEC and 1999/45/EC and / or Regulation (EC) 1272/2008 (CLP) (and subsequent amendments).

Label elements:

Pictograms: --

Warnings: --

Indications of danger: --

Safety recommendations: --

The product does not require labeling in accordance with Regulation (EC) 1272/2008 (CLP) and subsequent amendments.

Other hazards: No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances: The product contains no substances classified as hazardous to health or the environment pursuant to the provisions of Directives 67/548/EEC and / or Regulation (EC) 1272/2008 (CLP) (and subsequent amendments).

Blends: Information not relevant.

4. FIRST AID MEASURES

Description of first aid measures:

It is not specifically required. It is recommended in any case comply with the rules of good industrial hygiene.

Main effects and symptoms, both acute and delayed:

There are no known incidents of damage to health attributable to the product.

Indication of any immediate medical attention and special treatment:

The information is not available.

5. FIRE FIGHTING MEASURES

Extinguishing Media:

SUITABLE EXTINGUISHING MEDIA: Extinguishing media which shall be of the conventional kind: carbon dioxide, foam and powder and nebulizer water.

UNSUITABLE EXTINGUISHING MEDIA: None in particular.

Special hazards arising from the substance or blends:

HAZARDS CAUSED BY EXPOSURE IN CASE OF FIRE: Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).



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SINCERT



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Recommendations for the fire-fighters:

GENERAL INFORMATION: Cool with water the containers to prevent product decomposition and the development of potentially hazardous substances for health. Always wear full fire protection. Collected extinguishing water must not be discharged into drains. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

EQUIPMENT: Wear helmet with visor, fireproof clothing (jacket and pants fire retardants with bands around your arms, legs and life), gloves from intervention (fire, cut-resistant and dielectrics), a mask of overpressure with a face that covers the whole face of the operator or the aqualung (self-protector) in case of large quantities of smoke.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

In the case of vapours or dust dispersed in the air take a respiratory protection.

Environmental precautions:

Prevent product from entering drains, surface waters, and groundwater and in confined areas.

Methods and materials for containment and cleaning up:

It is confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Disposal of contaminated material must be done in accordance with the provisions of section 13.

Reference to other sections:

Any information on personal protection and disposal is given in sections 8 and 13.

7. HANDLING AND STORAGE

Precautions for safe handling:

It must be stored in closed labeled containers.

Conditions for safe storage, including any incompatibilities:

The normal conditions of storage without incompatibilities are required.

Specific end use:

The information is not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

The information is not available.

Exposure controls:

Observe the usual precautionary measures for handling chemicals.

RESPIRATORY PROTECTION: Not required.

EYE PROTECTION: Not required.

HAND PROTECTION: Not required.

SKIN PROTECTION: Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:	powder
Colour:	ivory white
Odour:	odourless
Odour Threshold:	NA (not available)
pH:	5.0 - 7.0
Melting point or freezing point:	> 160° C.
Boiling Point:	NA (not available)
Distillation range:	NA (not available)
Flash point:	NA (not available)
Evaporation Rate:	NA (not available)



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Flammability of solids and gases:	NA (not available)
Lower limit of flammability:	NA (not available)
Upper limit of flammability:	NA (not available)
Lower explosive limit:	NA (not available)
Upper explosive limit:	NA (not available)
Vapour Pressure:	NA (not available)
Vapour density:	NA (not available)
Specific weight:	0.500 - 0.600 Kg/l
Solubility:	soluble in hot water
Partition coefficient: n-octanol/water:	NA (not available)
Auto-ignition Temperature:	NA (not available)
Decomposition Temperature:	NA (not available)
Viscosity:	NA (not available)
Oxidizing properties:	NA (not available)

Further information

VOC (Directive 1999/13/EC):	0
VOC (volatile carbon):	0

10. STABILITY AND REACTIVITY

Reactivity:

There are no particular risks of reaction with other substances in normal conditions of use.

Chemical stability:

The product is stable under normal conditions of use and storage.

Possibility of hazardous reactions:

Under conditions of normal use and storage no dangerous reactions are predictable.

Conditions to avoid:

No special requirements. However follow the usual precautions against chemical products.

Incompatible materials:

The information is not available.

Hazardous decomposition products:

When heated or in the event of fire it can release vapours which are potentially dangerous to health.

11. TOXICOLOGICAL INFORMATION

There are no known incidents of damage to health due to exposure to the product. In any case it is recommended to operate in compliance with the rules of good industrial hygiene.

Information on toxicological effects: No information available.

12. ECOLOGICAL INFORMATION

Use it according to the good working practices, so as to avoid wasting the product into the environment. Alert the relevant authorities if the product has reached water courses or sewers or if it has contaminated the soil or vegetation.

Toxicity:

POLYVINYL ALCOHOL
LC50 (96h): > 40 mg/l
EC50 (48h): > 8,3 mg/l

Persistence and degradability: No information available.

Bio-accumulative potential: No information available.

Mobility in soil: No information available.

Results of PBT and vPvB assessment: No information available.



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Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods.

It can be reuse, when possible. The product residues should be considered as non-hazardous waste. Disposal must be performed through an authorized waste management, in compliance with national and local regulations. Solid residues may be suitable for disposal in a sanitary landfill.

CONTAMINATED PACKAGING: Contaminated packaging must be recovered or disposed of in compliance with national waste management.

14. TRANSPORT INFORMATION

The product is not considered dangerous under current provisions governing the transport of dangerous goods by road (ADR) and by Rail (RID), by sea (IMDG Code) and by air (IATA).

15. REGULATORY INFORMATION

Legislation and regulations on health, safety and environmental specifications for the substance or the mixture:

Seveso category:

None.

Restrictions relating to the product or the substances contained in Annex XVII Regulation (EC) 1907/2006.

No.

Substances in Candidate List (Art. 59 REACH)

No.

Substances subject to authorization (Annex XIV REACH)

No.

Healthcare controls

The information is not available.

Chemical Safety Assessment:

It was not drawn up an assessment of chemical safety to the mixture and the substances contained in it.

16. OTHER INFORMATION

GENERAL BIBLIOGRAPHY:

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 of the European Parliament (REACH)
4. Regulation (EC) 1272/2008 of the European Parliament (CLP)
5. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
6. Regulation (EC) 453/2010 of the European Parliament
7. The Merck Index. Ed 10
8. Handling Chemical Safety
9. NIOSH - Registry of Toxic Effects of Chemical Substances
10. INRS - Fiche Toxicologique
11. Patty - Industrial Hygiene and Toxicology
12. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

Amendments to previous review

Changes have been made to the following sections: **02 / 03 / 04 / 05 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 15 / 16.**

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