

Information Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name **POLYREN WS 66**

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

Intended use **Additive for paper mills**

Identified Uses	Industrial	Professional	Consumer
Flocculant additive	SU: 1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 23, 24, 4, 5, 6a, 6b, 7, 8, 9. ERC: 2, 3, 7. PROC: 15, 3, 8b, 9. PC: 20, 21, 26, 32, 36, 37.	SU: 1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 23, 24, 4, 5, 6a, 6b, 7, 8, 9. ERC: 2, 3, 7. PROC: 15, 3, 8b, 9. PC: 20, 21, 26, 32, 36.	-

Uses Advised Against

Any use not included among those recommended

1.3. Details of the supplier of the safety data sheet

Name **N.C.R. BIOCHEMICAL S.p.A.**
Full address **Headquarter Via dei Carpentieri, 8 - Zona Industriale il Prato**
District and Country **40050 Castello d'Argile (BO) Italia**
Tel. **+39 051 6869611 Mon-Fri 8.30-13.00/14.00-16.30**
Fax **+39 051 6869617**
e-mail address of the competent person responsible for the Safety Data Sheet **regulatory@ncr-biochemical.it**

1.4. Emergency telephone number

For urgent inquiries refer to **Italy:**
CAV ospedale Niguarda Ca Granda - Milano 0266101029
CAV Az. Osp. Papa Giovanni XXIII - Bergamo 800 883300
CAV Centro Nazionale di Informazione Tossicologica - Pavia 038224444
CAV Az. Osp. Careggi U.O. Tossicologia Medica - Firenze 0557947819
CAV Policlinico A. Gemelli - Roma 063054343
CAV Az. Osp. A. Cardarelli - Napoli 0817472870
CAV Az. Osp. Univ. Foggia - Foggia 0881732326

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Hazard classification and indication: --

2.2. Label elements

Hazard pictograms: --

Signal words: --

Hazard statements: --

Precautionary statements:

P280

Wear protective gloves/ protective clothing / eye protection / face protection.

SECTION 2. Hazards identification ... / >>

Product not intended for uses provided for by Dir. 2004/42/CE.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients**3.1. Substances**

Information not relevant

3.2. Mixtures

The product does not contain substances classified as being hazardous to human health or the environment pursuant to the provisions Regulation (EU) 1272/2008 (CLP) (and subsequent amendments and supplements) in such quantities as to require the statement.

SECTION 4. First aid measures**4.1. Description of first aid measures**

INHALATION: In case of trouble go to the open air.

INGESTION: Do not induce vomiting. Get medical advice/attention.

EYES: Rinse thoroughly with plenty of water, also under eyelids, at least for 15 minutes. Get medical assistance. It is necessary having a safety shower in the work area.

SKIN: Rinse the skin affected with plenty of water. Then wash it again with water and soap. In case of irritation, if it persists, get medical advice.

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

INHALATION: No expected symptoms.

INGESTION: It causes gastrointestinal disorders.

EYES: Symptoms may include itching, pain, redness, tears.

SKIN: Slight irritation of the repeatedly exposed area.

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

Symptomatic treatment.

SECTION 5. Firefighting measures**5.1. Extinguishing media**

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

In the case of land-spreading, wear boots and gloves, work clothes fit. The material may be slippery.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

Avoid losses into waterways, not discharge into sewer.

6.3. Methods and material for containment and cleaning up

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

The material is slippery, collect mechanically as possible before washing with water.

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 12

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Exposure limits are listed below when they exist.

8.2. Exposure controls

Considering that the use of adequate technical measures should always take priority over personal protection equipment, ensure good ventilation in the workplace through effective local aspiration.

SECTION 8. Exposure controls/personal protection ... / >>

The individual protection devices must bear the CE marking attesting their compliance with the regulations in force. **HAND PROTECTION**
The use of protective gloves is recommended (reference EN 374). For the final choice of the work glove material, the process of using the products and any other products deriving from them must also be evaluated. It is also recalled that latex gloves can give rise to sensitization phenomena.

PROTECTION OF EYES

It is advisable to wear safety glasses (ref EN 166).

PROTECTION OF THE SKIN AND BODY

Wear protective clothing and safety shoes (see Directive 89/686 / EEC and EN ISO 20344).

RESPIRATORY PROTECTION

In case of insufficient ventilation use respiratory equipment.

CONTROLS OF ENVIRONMENTAL EXPOSURE

Emissions from production processes, including those from ventilation equipment, should be monitored for compliance with environmental protection legislation.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	viscous liquid
Colour	from colourless to opalescent
Odour	imperceptible
Odour threshold	Not available
pH	7,5 ÷ 8,5
Melting point / freezing point	< 0 °C
Initial boiling point	> 100 °C
Boiling range	Not available
Flash point	> 60 °C
Evaporation Rate	like water
Flammability of solids and gases	not applicable because the product is liquid
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not applicable
Upper explosive limit	Not applicable
Vapour pressure	2,3 KPa @ 20°C
Vapour density	~0,8 g/L
Relative density	1,020 ÷ 1,080
Solubility	miscible
Partition coefficient: n-octanol/water	< 0
Auto-ignition temperature	Not applicable
Decomposition temperature	> 100°C
Viscosity	4000-8000 cps
Explosive properties	not applicable because it does not contain any explosives functional groups
Oxidising properties	not applicable because it does not contain any oxidizing functional groups

9.2. Other information

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

Information not available

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Dangerous reactions with oxidizing agents.

10.4. Conditions to avoid

SECTION 10. Stability and reactivity ... / >>

Avoid highly oxidizing agents that can cause exothermic reactions.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Among the possible thermal decomposition products: carbon oxides (COx), nitrogen oxides (NOx).

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:	Not classified (no significant component)
LD50 (Oral) of the mixture:	Not classified (no significant component)
LD50 (Dermal) of the mixture:	Not classified (no significant component)

Oral LD 50 (rat) > 5000 mg / kg (estimated).

LD 50 cutaneous (rat) > 5000 mg / kg (estimated).

Testing of inhalation effects is considered inappropriate because exposure of humans by inhalation is unlikely: the product has no vapor pressure and therefore there is no exposure to inhalable aerosols.

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

By analogy with similar products no irritant effects are expected from this product.

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

By analogy with similar products no irritant effects are expected from this product.

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

In product it is not considered sensitizing.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

SECTION 11. Toxicological information ... / >>

By analogy with similar products this product is not mutagenic.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

By analogy with similar products this product should not be carcinogenic.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

By analogy with similar products this product should not be toxic for reproduction.

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

No known effect.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

No known effect.

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

No risk deriving from the product.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

LC 50 Danio rerio (96 h) > 100 mg / L (evaluated).
EC 50 Daphnia Magna (48 h) > 100 mg / L (evaluated).
IC 50 Scenedesmus subspicatus (72 h) > 100 mg / L (evaluated).

12.2. Persistence and degradability

Not readily biodegradable

12.3. Bioaccumulative potential

Log-Pow < 0.
The product is not expected to be bioaccumulative.

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

13.1. Waste treatment methods

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
None

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

SECTION 15. Regulatory information ... / >>

None

Healthcare controls

Information not available

German regulation on the classification of substances hazardous to water (VwVwS 2005)

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

Use descriptor system:

ERC 2	Formulation of preparations
ERC 3	Formulation in materials
ERC 7	Industrial use of substances in closed systems
PC 20	Products such as ph-regulators, flocculants, precipitants, neutralization agents
PC 21	Laboratory chemicals
PC 26	Paper and board dye, finishing and impregnation products: including bleaches and other processing aids
PC 32	Polymer preparations and compounds
PC 36	Water softeners
PC 37	Water treatment chemicals
PROC 15	Use as laboratory reagent
PROC 3	Use in closed batch process (synthesis or formulation)
PROC 8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC 9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
SU 1	Agriculture, forestry, fishery
SU 10	Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
SU 11	Manufacture of rubber products
SU 12	Manufacture of plastics products, including compounding and conversion
SU 13	Manufacture of other non-metallic mineral products, e.g. plasters, cement
SU 14	Manufacture of basic metals, including alloys
SU 15	Manufacture of fabricated metal products, except machinery and equipment
SU 16	Manufacture of computer, electronic and optical products, electrical equipment
SU 17	General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
SU 18	Manufacture of furniture
SU 19	Building and construction work
SU 20	Health services
SU 23	Electricity, steam, gas water supply and sewage treatment
SU 24	Scientific research and development
SU 4	Manufacture of food products
SU 5	Manufacture of textiles, leather, fur
SU 6a	Manufacture of wood and wood products
SU 6b	Manufacture of pulp, paper and paper products
SU 7	Printing and reproduction of recorded media
SU 8	Manufacture of bulk, large scale chemicals (including petroleum products)
SU 9	Manufacture of fine chemicals

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level

SECTION 16. Other information ... / >>

- PNEC: Predicted no effect concentration- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

01 / 02 / 04 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 15 / 16.