SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
   1.1 BIORUSOL®
   1.2 SUPPLIER: A.ERRE & CO SRL Via Tanaro 15 – 20017 Rho (MI) – Italy
   1.3 EMERGENCY TELEPHONE: 0039-2-9304946
   1.4 E.MAIL: info@aerreita.com

2. HAZARD IDENTIFICATION
   2.1 PHYSICAL/CHEMICAL HAZARDS: not reactive
   2.2 ENVIRONMENTAL HAZARDS: none, being bioflavonoids widespread in nature
   2.3 HUMAN HEALTH HAZARDS: not toxic

3. COMPOSITION/INFORMATION ON INGREDIENTS
   3.1 SUBSTANCE: Methoxy-PEG- 7-Rutinyl- Succinate (Rutin)
   3.2 CAS: 153-18-4
   3.3 INCI: METHOXY-PEG 7 RUTINYL SUCCINATE
   3.4 PREPARATION: obtained by solubilization of Rutin with PEG-

4. FIRST AID MEASURES
   4.1 EFFECTS AND SYMPTOMS

   INGESTION: not toxic
   INHALATION: vapors are unlikely due to nature of the product
   SKIN CONTACT: do not cause skin irritation
   EYE CONTACT: not specifically irritation to eyes
   ROUTE UNSPECIFIED:

   4.2 FIRST AID MEASURES

   INGESTION: If an appreciable amount was swallowed, give some glasses of water and call a physician
   INHALATION: product not volatile
   SKIN CONTACT: wash off with plenty of water
   EYE CONTACT: flush with water for at least 10 minutes. Contact a physician. Phosphate buffer solution can be esed.

5. FIRE FIGHTING MEASURES
   5.1 EXTINGUISHING MEDIA: - Carbon dioxide
                                - Foam
                                - Water spray
6. ACCIDENTAL RELEASE MEASURES
   6.1 PERSONAL PRECAUTIONS: Wear neoprene gloves and safety glasses
   6.2 ENVIRONMENTAL PRECAUTIONS: N/A
   6.3 METHODS OF CLEANING UP: use water

7. HANDLING AND STORAGE
   7.1 HANDLING: Wear neoprene and safety glasses
   7.2 STORAGE: Store in ventilated areas, away from any ignition or cooling sources.
      Keep out of direct sunlight. Temperature: 10°C to 25°C.
   7.3 PACKAGING MATERIALS: glass, steel, coated drums.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
   8.1 ENGINEERING MEASURES: N/A
   8.2 HYGIENIC MEASURES: Wear impervious gloves (apron) when handling; use
      safety glasses
   8.3 PERSONAL PROTECTIVE EQUIPMENT
   8.4 RESPIRATORY SYSTEM: N/A
   8.5 SKIN AND BODY: Splash apron and chemical resistant boots
   8.6 HANDS: Neoprene gloves
   8.7 EYES: Splash goggles or safety glasses

9. PHYSICAL AND CHEMICAL PROPERTIES
   9.1 PHYSICAL STATE: Viscous liquid
   9.2 COLOUR: Yellow-brownish
   9.3 ODOUR: Practically odourless
   9.4 BOILING POINT: decomposes at 200°C
   9.5 pH: 3.5 ± 0.5
   9.6 SOLUBILITY IN WATER: High
   9.7 VAPOUR DENSITY (Air=1):
   9.8 FLASH POINT:
   9.9 AUTOIGNITION TEMPERATURE:
   9.10 LOWER EXPLOSION LIMIT: N/A
   9.11 UPPER EXPLOSION LIMIT: N/A

10. STABILITY AND REACTIVITY
    10.1 STABILITY: Stable
    10.2 CONDITIONS TO AVOID: Avoid excessive heat
    10.3 MATERIALS TO AVOID: Alcaline products
    10.4 HAZARDOUS DECOMPOSITION PRODUCTS:

11. TOXICOLOGICAL INFORMATION
    11.1 ACUTE TOXICITY: - ORAL: LD₅₀>1g/Kg
        - DERMAL: Undetermined
        - INHALATION: Undetermined
        - UNSPECIFIED: Undetermined
    11.2 SKIN IRRITATION: None
11.3 EYE IRRITATION: no alteration in corneal and conjunctival tissue

12. ECOLOGICAL INFORMATION
12.1 ECOTOXICITY: not determined. The bioflavonoids are normally widespread in nature

13. REGULATORY INFORMATIONS
13.1 METHODS OF DISPOSAL: The material is not a RCRA hazardous waste under current regulations.

14. TRANSPORT INFORMATION
14.1 Without limitations, by train, truck, air, ship.

15. REGULATORY INFORMATIONS
15.1 The compounds is not harmful; special labels are not required.

16. OTHER INFORMATION
16.1 The information contained herein relates only to the specific material identified. A.ERRE & Co srl believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, express or implied, is made as to the ocurrence, reliability, or completeness of the information. A.ERRE & CO. Srl urges persons receiving this information to make their own determination as to the information’s suitability and completeness for their particular application.

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