1: Identification of the Substance / Preparation and Company:

Preparation: Monovin MN 770
Usage: UV light stabilizer for organic polymers
Company: M N Chemical Industries (Pvt) Ltd.
20th KM Faisalabad Jaranwala Road.
Faisalabad, 38000, Pakistan.
Mills: +92-41-8740760-1
Head Office: +92-41-2627227
Karachi Office: +92-21-5868195
Fax: +92-41-2627228
Email: info@mnchemical.com.pk

2: Composition / Information on ingredients:

Chemical Name: Bis (2,2,6,6-tetramethyl-4-piperidinyl) sebacate
CAS No. 52829-07-9
Synonym: Tinuvin 770

3: Hazard Identification:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Releases to the environment are to be avoided. Avoid contact, can cause eye irritation and skin irritation. Inhalation of dusts may cause respiratory irritation.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable gloves and eye/face protection.

4: First Aid Measures:

Skin contact: Remove contaminated clothing. In the Event of contact with the skin, remove excess product with a clean cloth; clean skin with water (or soap and water). If irritation persists or if any sign of tissue damage is apparent; obtain medical advice immediately.

Eye contact: In the event of contact with eyes, wash with plenty of water for at least ten min. Obtain medical advice immediately if Irritation persists or there is any tissue damage.

Inhalation: In the event of excessive inhalation remove the individual to fresh air and keep at rest; obtain medical advice immediately.

Ingestion: In the event of accidental ingestion, rinse mouth with water; give up to one tumbler (½ pint) of milk or water to drink; obtain medical advice immediately.

5: Fire Fighting Measures:

Flash point: > 150°C
Decomposition temperature: > 350°C
Flammable limits: Not determined
Extinguishing media: Carbon dioxide, foam, dry chemical, water spray.
Fire fighting procedures-special: Use self-contained breathing apparatus.
6: **Accidental Release Measures:**

Wear appropriate personal protective equipment, including appropriate respiratory protection to ventilate contaminated area. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

7: **Handling and Storage:**

Handling precautions: In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid contact with eyes and prolonged or repeated skin contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation.

Shipping and storing precautions: Keep container tightly closed when not in use and during transport.

Personal hygiene: Wash thoroughly after handling.

8: **Exposure Controls / Personal Protection:**

- Respiratory protection: Wear suitable particular filter mask when exposed to dust.
- Hand protection: Wear suitable gloves.
- Eye protection: Wear suitable goggles or face protection.
- Skin protection: Wear overall and closed fit wear.

9: **Physical and Chemical Data:**

- Physical state: White flakes
- Melting Point: 81.0 - 85.0°C
- Boiling Point: >350°C
- Flash Point: >150°C
- Density: 1.05 g/cm³ (20°C)
- Solubility in Water: < 0.01 at 20°C

10: **Stability and Reactivity**

- Stability: Stable.
- Conditions to avoid: Static discharges.
- Materials to avoid: Strong oxidizing agents, strong bases and strong acids.
- Hazardous decomposition: Thermal decomposition and burning may produce carbon monoxide, nitrogen and other toxic gases and vapors.

11: **Toxicological Information:**

- Oral LD₅₀ (rats): 3,700 mg/kg
- Skin irritation (rabbits): Non-irritant
- Skin sensitization (guinea pigs): Negative
- Eye irritation (rabbits): Non-irritant

12: **Ecological Information**

- Biodegradability in modified sturm test: Partly but not readily degradable.
- EC50 Bacteria (3 H): > 100 mg/L.
13: **Disposal Considerations:**

Incineration or landfill in accordance with local regulation. Contaminated packaging material should be disposed of identically to the product itself. Non contaminated packaging material should be treated as household waste or as recycling material.

14: **Transportation Information:**

- ADR: Non Hazardous Goods
- ADNR: Non Hazardous Goods
- RID: Non Hazardous Goods
- IMDG: Non Hazardous Goods
- IATA_C: Non Hazardous Goods
- IATA_P: Non Hazardous Goods

Other Information: Avoid temperature below -20°C and above 40°C, keep separated from foodstuffs.

15: **Regulatory Information:**

Contains: 2,2,6,6-tetramethyl piperidine derivative

Xi: Irritant.
R 36: Irritating to eyes.
S 22: Do not breathe dust.
S 24/25: Avoid contact with skin and eyes.

16: **Other Information:**

Shelf life: 2 years minimum in sealed containers protect from light and air.
Suggested uses: Light stabilizer for organic polymers.

The data given here is based on current knowledge and experience. The purpose of this data sheet is to describe the product in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

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**Responsible for Preparation:**
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Technical Manager
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Date prepared: 01-06-2011
Revised Date: 01-02-2012

17: **Information on Intended Use:**

The data contained in the MSDS apply only to MN Chemical Inds (Pvt) Ltd. products sold under their trade names. Technical information in support will be provided by MN Chemical Inds (Pvt) Ltd. at the request of competent authorities.