

Dayson Polymers, LLC

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Material Safety Data Sheet (MSDS)

TENAC: 2010, 2013A, 2013B, 3010, 3011, 3013A, 4010, 4012, 4013, 4013A, 5010, 5012, 5013, 5013A, 5050, 7010, 7050, 7054, 7054P, SH210, SH310, SH410, SH510, SH611, SH710, 1030, LT802, LT804, LT805.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: "TENAC" 2010, 2013A, 2013B, 3010, 3011, 3013A, 4010, 4012, 4013, 4013A, 5010, 5012, 5013, 5013A, 5050, 7010, 7050, 7054, 7054P, SH210, SH310, SH410, SH510, SH611, SH710, 1030, LT802, LT804, LT805.

GENERAL USE: Resin for mechanical parts.

PRODUCT DESCRIPTION: Polyacetal resin.

MANUFACTURER:

Company Name: ASAHI CHEMICAL INDUSTRY CO. LTD.
Address International Marketing Group High-performance Plastics Div
Hibiya-Mitsui Bldg. 1-2 Yurakucho 1-chome, Chiyoda-ku,
Tokyo, 100, Japan
Tenac Technical Department
1-2-1, Yakoh, Kawasaki-ku, Kawasaki-city, Kanagawa, Japan.

EMERGENCY TELEPHONE NUMBER:

CHEMTREC: United States --- (800) 824-9300 24 hours Everyday
International-----+1-703-527-3887(Collect) 24 hours Everyday

Non-transportation
(AGENT)

Asahi Chemical Industry Co., Ltd, (Japan) International Marketing Group High-performance Plastics Division
TEL: +81-3-3507-2570, 2573 9 am – 6 pm Japan Time M-F

Asahi Chemical Industry Co., Ltd, (Japan) Tenac Technical Department
TEL: +81-44-271-2448 9 am – 6 pm Japan Time M-F

2. COMPOSITION, INFORMATION ON INGREDIENTS

COMPOSITION: Polyoxymethylene homopolymer (Polyacetal) >97%
Other Additives < 3%

(Light stabilizer, heat stabilizer, lubricant, colorant, etc. are added, if necessary.)

STRUCTURAL FORMULA: Polyoxymethylene homopolymer (Polyacetal)

CAS No: Polyoxymethylene homopolymer(Polyacetal)----9002-81-7

UN CLASSIFICATION & UN No: Not Applicable

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Skin contact of molten resin causes thermal burn.

Inhalation of formaldehyde gas from decomposed resin causes nausea.

Formaldehyde gas generated during drying and melting causes eye and skin irritation.

Formaldehyde is listed by IARCc 2A as probably carcinogenic to humans.

Secondary operations, such as grinding, sanding, or sawing, can produce dust which may present an explosion or respiratory hazard.

POTENTIAL HEALTH EFFECTS:

PRIMARY ROUTES EXPOSURE:

EYE Pellets may cause irritation or injury due to mechanical action.

SKIN Pellets are not likely to cause skin irritation.

INHALATION Pellets inhalation is unlikely due to physical form

INGESTION Oral toxicity data is not established.

Small amount swallowed incidental to normal handling operations are not likely to cause injury:

However, swallowing large amounts may cause injury.

CHRONIC/CARCINOGENICITY: NTP---Not tested, OSHA---Not regulated, IARC---Not listed

MELT PROCESSING HEALTH EFFECTS: Contact with molten resin causes thermal burn.

Inhalation of formaldehyde gas from decomposed resin may cause irritation.

MEDICAL RESTRICTIONS: Certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing fumes.

NOTE: additives containing certain heavy metal compounds may be present. These ingredients are encapsulated in the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions.

4. FIRST-AID MEASURES

EYE CONTACT: If the resin is in molten state, immediately cool and wash with clean water for at least 15 Minutes. Remove contact lenses immediately if worn, unless they have adhered to eyes, seek immediate medical attention.

SKIN CONTACT: If the resin is in molten state, cool with clean water immediately. Do not forcibly remove any solidified resin stuck to the skin, but continue cooling until it becomes readily removable. Get medical attention for thermal burn.

INHALATION: If inhalation of gas from molten resin causes nausea, remove the individual to fresh air And keep him at rest for recovery. If his condition does not improve, seek medical Medical attention.

INGESTION: Induce vomiting only if the victim is conscious. In case of heavy ingestion, seek medical Attention.

MELTING PROCESSING: If molten resin contacts skin, cool rapidly with water and immediately seek medical attention. WARNING: Do not attempt removal of resin without medical assistance. Do not use solvent for removal.

If inhalation of processing fumes causes irritation, leave contaminated area and breathe area and breathe fresh air. If coughing, difficult breathing or any other symptoms Develop, seek medical attention at once, even if symptoms develop at a later time.

For skin contact with fume condensate, immediately wash affected area thoroughly with soap and water. If irritation develops, seek medical attention.

5. FIRE FIGHTING INSTRUCTIONS: wear full bunker gear including a positive pressure self-contained

Breathing apparatus in any closed space.

EXTINGUISHING MEDIA:

CO₂, EXTINGUISHING POWDER OR WATER: fight larger fires with water or alcohol-Resistant foam.

FLAMMABLE PROPERTIES:

Flash point: about 320 °C (about 608 °F)

Explosive limit: Lower ---- None, Upper ---- None

HAZARDOUS COMBUSTION PRODUCTS:

May include intense heat, carbon monoxide, carbon dioxide, formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

To prevent the danger of slips or falls from pellets, sweep or gather up resin and place in proper container for disposal or recovery. Immediately collect released resin to prevent environmental contamination

7. HANDLING AND STORAGE

HANDLING: Should process this resin under the recommended temperature range.
(190 ~ 210 °C, 374 ~ 410 °F)

Do not inhale gas during processing of the resin. Provide for sufficient ventilation.

Do not hold the resin at high temperatures over an extended time. (See 10, STABILITY AND REACTIVITY)

STORAGE: Store in a dry place away from excessive heat and ignition sources.
Avoid direct sunlight.

8. EXPOSURE CONTROL, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Polyoxymethylene homopolymer: Particulates not otherwise classified.

OSHA PEL: 8 hr. TWA 15 mg/m³ (total dust), 8hr. TWA 5 mg/m³(respirable fraction)

ACHIG TLV-TWA (1995 - 1996): 10 mg/m³(inhalable particulate), 3 mg/m³ (respirable particulate)

ENGINEERING MEASURES: In cases where possibilities of dust formation, gas generation, or vapor emission exists, provide local exhaust ventilation.

PERSONAL PROTECTION:

EYE/FACE PROTECTION: Wear safety glasses or chemical goggles while using or handling this product.

SKIN PROTECTION: When handling pellets, wear protective gloves. When melt processing product, wear long pants, long sleeves, well-insulated gloves and face shield when applicable. Use appropriate protective clothing, including chemical resistant gloves, to prevent any contact with processing fume condensates.

RESPIRATORY PROTECTION: When processing fumes are not adequately controlled, use MIOSH/MSHA-Approved respirator for protection from organic vapors and acid gases. When dust or powder from secondary operations (such as grinding, sanding, or sawing), is not adequately controlled, use NIOSH/MSHA – approved respirator for protection from dust.

9. PHYSICAL AND CHEMICAL PROPERTIES.

APPEARANCE: Pellets

ODOR: Slight Odor

COLOR: White

PHYSICAL STATE: Solid

MELTING POINT: 167 ~ 177 °C (333 ~ 351 °F)

BOILING POINT: Not applicable

DENSITY: at 23°C (73 °F): 1.35~ 1.60 g/cm³

SOLUBILITY IN WATER at 23 °C (73 °F): Negligible

PH: Not applicable

13. DISPOSAL CONSIDERATIONS

Comply with all federal, state and local regulations.
Do not release into sewers, ground or a body of water.

14. TRANSPORT INFORMATION

NOTE: Avoid water and careless handling to prevent damage to the container.

D.O.T. Shipping Name	Not regulated
Technical Shipping Name	Not regulated
D.O.T. Hazard Class	Not regulated

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

OSHA Not hazardous by definition of Hazard Communication Standard (29CFR1910.1200)

TSCA Status On TSCA Inventory

CERCLA 40CFR117, 302 None

SARA TITLE III SECTION 313 (TOXIC CHEMICALS) None

SARA TITLE III SECTION 302 (EXTREMELY HAZARDOUS SUBSTANCES) None

SARA TITLE III SECTION 311, 312 9HAZARD CATEGORY) Not Hazardous

16. Other Information

Refer to technical bulletin "ASAHI POLYACETAL "TENAC""

MSDS status: Revised section 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

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