

<b>Product name</b>	GUR®	<b>Revision Date</b>	TNA/EN
<b>MSDS number</b>	87050101	<b>Issuing date</b>	Jun.11.2014
<b>Revision Number</b>	1		Jul.30.2014

## 1. Identification of the substance/preparation and of the company/undertaking

The following SDS applies to products described by combinations of the following trade name, product grade and color code listed below.

**Trade Name**  
GUR®

**Product Grade(s):**  
2022, 2024, 2105, 2122, 2122-5, 4012, 4012 OVERS, 4017 , 4018, 4020, 4022, 4022-6, 4030, 4032, 4050, 4052, 4113, 4120, 4122, 4122-5, 4130, 4150, 4150-5, 4152, 4170, 4523, 4550, 8020, 8110, SL 180

**Color Code:**  
See Section 16 for list of Color Codes

**Manufacturer, importer, supplier**  
**Ticona Polymer, Inc.**  
**A business of Celanese**  
8040 Dixie Hwy.  
Florence, KY 41042  
United States  
www.celanese.com

**Transportation emergency phone numbers:**  
In USA, call 800 424 9300  
Outside USA, call 703 527 3887, collect calls accepted.

**Product Information**  
1-800-833-4882  
info-engineeredmaterials-am@celanese.com

**Synonyms:**  
Ultra High Molecular Weight Polyethylene / PE-UHMW

**Identified uses**  
Plastic processing industry.

## 2. Hazards identification

### Emergency Overview

**WARNING!**  
Fine powder may present a dust explosion hazard if suspended in air.

### Potential health effects

#### Immediate effects

**Skin** Polymer particles may cause mechanical irritation.

<b>Product name</b>	GUR®	<b>Revision Date</b>	TNA/EN
<b>MSDS number</b>	87050101	<b>Issuing date</b>	Jun.11.2014
<b>Revision Number</b>	1		Jul.30.2014

<b>Eyes</b>	Resin particles, like other inert materials, are mechanically irritating to eyes
<b>Inhalation</b>	Dust irritating to respiratory tract. Overheating in processing may generate hazardous, irritating vapours.
<b>Ingestion</b>	Low toxicity by this route is expected based on the biological activity of high molecular weight polymers.

### 3. Composition/information on ingredients

**Chemical characterization** Ethylene, polymer CAS-RN. basic polymer: 9002-88-4

This product may contain proprietary ingredients.

This is a polymeric material. Any hazardous constituents are wetted by the polymer system, and therefore are unlikely to present exposure under normal conditions of processing and handling.

### 4. First aid measures

#### **Skin**

Wash off with soap and water. If symptoms persist, call a physician. Cool skin rapidly with cold water after contact with molten polymer.

#### **Eyes**

Immediately flush eye(s) with plenty of water. Call a physician if irritation persists.

#### **Inhalation**

Move to fresh air in case of accidental inhalation of dust. Get medical attention immediately if symptoms occur.

#### **Ingestion**

If swallowed, do not induce vomiting - seek medical advice.

#### **Notes to physician**

This product is essentially inert and nontoxic. However, if it is heated at too high a temperature or if it is burned, gases may be released. Patients who have been exposed to off-gases may need to have their arterial blood gases and carboxyhemoglobin levels checked. If the carboxyhemoglobin levels are normal, asphyxia (carbon dioxide replacing oxygen) is a possibility. As with any fire, irritant gases may have formed. If patients may have inhaled high concentrations of irritating fumes, they should be monitored for delayed onset pulmonary edema

### 5. Fire-fighting measures

#### **Suitable extinguishing media**

Water, Foam, Dry powder

#### **Extinguishing media which must not be used for safety reasons**

Do not use a solid water stream as it may scatter and spread fire.

<b>Product name</b>	GUR®	<b>Revision Date</b>	TNA/EN
<b>MSDS number</b>	87050101	<b>Issuing date</b>	Jun.11.2014
<b>Revision Number</b>	1		Jul.30.2014

**Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases**

Carbon monoxide  
Carbon dioxide (CO2)

**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit.

**Other Information**

Potential dust explosion hazard.

**Dust explosibility class**

St-1

## 6. Accidental release measures

**Personal precautions**

Do not breathe dust. Avoid dust formation.

**Environmental precautions**

No special precautions required.

**Methods for cleaning up**

Avoid dust formation. Potential dust explosion hazard. Remove all sources of ignition. Do not create a powder cloud by using a brush or compressed air. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

## 7. Handling and storage

**Advice on safe handling**

Do not handle hot or molten material without appropriate protective equipment. Maintain good housekeeping in work areas. Do not exceed recommended process temperatures to minimize release of decomposition products.

**Protection - fire and explosion**

Do not smoke in areas where polymer dust is present. Appropriate measures should be taken to control the generation and accumulation of dust during conveying and processing operations. Electrical grounding of equipment and the minimization of ignition sources is required when handling powder to avoid possible dust explosion.

**Material storage**

Store in a cool dry place.

**Incompatible products**

Halogene strong oxidizing agents Aromatic solvents

## 8. Exposure controls/personal protection

**OSHA Exposure Limits**

No exposure limits established.

Product name GUR®  
 MSDS number 87050101  
 Revision Number 1

Revision Date TNA/EN  
 Issuing date Jun.11.2014  
 Jul.30.2014

**ACGIH Exposure Limits**

No exposure limits established.

**Mexico National Exposure Limits**

No exposure limits established

**Exposure controls**

**Engineering measures**

General: May not be adequate as the sole means to control employee exposure.  
 Local Exhaust: Recommended when appropriate to control employee exposure to dust or process vapors

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment

**Skin protection:**

When thermal or melt processing, wear long pants, long sleeves, well insulated gloves, and face shield when there is a chance of contact.

**Eye/face protection:**

safety glasses with side-shields. Safety goggles.

**9. Physical and chemical properties**

**Appearance**

<b>Form</b>	powder
<b>Odor</b>	slight , specific .
<b>Flash point</b>	Not applicable (662°F)
<b>Density</b>	approx 0,92- 0,95 g/ml @ 25°C
<b>Method</b>	EN ISO 1183-1, A
<b>Bulk density</b>	approx 0,1 - 0,5 g/cm³ @ 20°C
<b>Method</b>	DIN EN ISO 60
<b>Water solubility</b>	insoluble

**10. Stability and reactivity**

**Chemical stability**

Stable under normal conditions.

<b>Product name</b>	GUR®	<b>Revision Date</b>	TNA/EN
<b>MSDS number</b>	87050101	<b>Issuing date</b>	Jun.11.2014
<b>Revision Number</b>	1		Jul.30.2014

**Conditions to avoid**

Flame. Avoid prolonged heating at or above the recommended processing temperature. Fine powder may present a dust explosion hazard. Appropriate measures should be taken to control the generation and accumulation of dust during conveying and processing operations. Electrical grounding of equipment and the minimization of ignition sources is required when handling powder to avoid possible dust explosion.

**Incompatible Materials**

Halogens, strong oxidizing agents, aromatic solvents.

**Hazardous Combustion or Decomposition Products:**

Thermal decomposition products may include oxides of carbon.

**11. Toxicological information**

No data is available on the product itself

**12. Ecological information**

**Ecotoxicity:**

No data is available on the product itself

**Environmental Fate/Information:**

This material is considered to be non-biodegradable.

**13. Disposal considerations**

**Disposal considerations**

Recycling is encouraged. Dispose of spilled material in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

This product as shipped is not a RCRA hazardous waste under present EPA regulations

**14. Transport information**

**US Department of Transportation** Not regulated

**TDG** Not regulated

**Mexico Transport Information** Not regulated

**ICAO/IATA** Not restricted

**IMDG** Not regulated

<b>Product name</b>	GUR®	<b>Revision Date</b>	TNA/EN
<b>MSDS number</b>	87050101	<b>Issuing date</b>	Jun.11.2014
<b>Revision Number</b>	1		Jul.30.2014

## 15. Regulatory information

### U.S. FEDERAL REGULATIONS

#### **TSCA Inventory**

This product complies with the U.S. Toxic Substances Control Act (TSCA).

#### **SARA 313 Chemicals**

Contains no substances at or above the reporting threshold under Section 313.

### CANADIAN REGULATIONS

#### **WHMIS Classification:**

Not a WHMIS controlled product.

#### **WHMIS Ingredient Disclosure List IDL:**

This product does not contain substances required to be disclosed according to the Canada WHMIS Ingredient Disclosure List.

## 16. Other information

NFPA:	Health: 1	Flammability: 0	Instability: 0
HMIS:	Health: 1	Flammability: 0	Physical Hazard: 0

#### **Color code(s)**

10/7000, 20/1000, 30/8200, 50/4100, 60/6006, 70/5000, 70/6000, 80/3000, 80/3300, 80/3400, 80/3500, NATUR, NATURAL

#### **Prepared By**

Product Stewardship Department  
Celanese

#### **Other Information:**

Observe national and local legal requirements  
Except as otherwise noted, all of the trademarks referenced herein are owned by Ticona or its affiliates.

Changes against the previous version are marked by \*\*\*

This product is not intended for use in medical or dental implants.

The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Celanese makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. User has sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

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<b>MSDS number</b>	87050101	<b>Revision Date</b>	Jun.11.2014
<b>Revision Number</b>	1	<b>Issuing date</b>	Jul.30.2014

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**Abbreviation and Acronym:**

ADR = Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS = Chemical Abstracts Service (division of the American Chemical Society)

CLP = Classification, Labelling and Packaging

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IMO)

ICAO = International Civil Aviation Organization

IMDG = International Maritime Code for Dangerous Goods

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**SECTION 1 PRODUCT AND COMPANY IDENTIFICATION**

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PRODUCT NAME: FT 8345	MANUFACTURER: Avery Dennison Performance Tapes NA 250 Chester Street Painesville, OH 44077 Telephone: 440-358-2600
PART NUMBER: 58054	
PRODUCT FAMILY: Pressure sensitive adhesive tape	DATE PREPARED: 3/6/13

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**SECTION 2 HAZARDS IDENTIFICATION**

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**This product is classified as an Article and is not hazardous nor does it contain hazardous ingredients over trace amounts as defined under 29 CFR 1910.1200**

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**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

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Hazardous Components: None

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**SECTION 4 FIRST AID MEASURES**

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INHALATION: None

EYE CONTACT: For eyes, mechanical injury only. Check for evidence of corneal injury

SKIN CONTACT:

INGESTION: Unlikely due to physical form. No first aid measures needed

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**SECTION 5 FIRE FIGHTING MEASURES**

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FLAMMABLE PROPERTIES

FLASH POINT: N/A	FLAMMABLE LIMITS	LEL N/A	UEL N/A
METHOD USED: N/A			

EXTINGUISHING MEDIA: Water or dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Treat as ordinary combustible

UNUSUAL FIRE AND EXPLOSION HAZARDS: Ordinary products of combustion

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: N/A

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<b>PRODUCT NAME:</b> FT 8345	<b>PART NUMBER:</b> 58054
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**SECTION 7 HANDLING AND STORAGE**

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep away from high heat and flames

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**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

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RESPIRATORY PROTECTION: None required

VENTILATION: (X) LOCAL EXHAUST ( ) MECHANICAL

Normal ventilation adequate for most operations

PROTECTIVE GLOVES: Not needed

EYE PROTECTION: Not needed

OTHER PROTECTIVE EQUIPMENT: N/A

WORK/HYGIENIC PRACTICES: No unusual practices needed

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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BOILING POINT:	N/A	WEIGHT PER GALLON:	N/A
VAPOR PRESSURE (MM HG.):	N/A	% VOLATILE BY WEIGHT:	<1.0 wt%
VAPOR DENSITY (AIR = 1):	N/A	EVAPORATION RATE:	N/A
% SOLUBILITY IN WATER:	<1%	PH:	N/A
PHYSICAL FORM:	Solid	ODOR:	Slight odor

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**SECTION 10 STABILITY AND REACTIVITY**

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STABILITY: (X) STABLE ( ) UNSTABLE

CONDITIONS TO AVOID: None known

INCOMPATIBILITY (MATERIALS TO AVOID): None known

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: None known

HAZARDOUS POLYMERIZATION: ( ) MAY OCCUR (X) WILL NOT OCCUR

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<b>PRODUCT NAME:</b> FT 8345	<b>PART NUMBER:</b> 58054
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**SECTION 11 TOXICOLOGICAL INFORMATION**

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ROUTE(S) OF ENTRY: INHALATION: N/A  
SKIN: N/A  
INGESTION: Unlikely due to physical form

HEALTH HAZARDS: None

CARCINOGENICITY: Not carcinogenic

SIGNS AND SYMPTOMS OF EXPOSURE: N/A

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**SECTION 12 ECOLOGICAL INFORMATION**

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Material is non-toxic

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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WASTE DISPOSAL METHOD:  
Incinerate or landfill in accordance with Federal, State, and Local regulations

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**SECTION 14 TRANSPORT INFORMATION**

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Material is not DOT regulated

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**SECTION 15 REGULATORY INFORMATION**

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Material is considered an article and is not regulated

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**SECTION 16 OTHER INFORMATION**

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None

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THIS MSDS UTILIZES THE FORMAT RECOMMENDED BY ANSI Z400.1/Z129.1-2010. THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND EXPRESSED OR IMPLIED IS MADE WITH RESPECT TO THE INFORMATION CONTAINED .

MSDS PREPARED BY TECHNICAL DEPARTMENT