

SAFETY DATA SHEET		
<b>TECHNYL 1011R BRIGHT</b>		
Revision: 1.01 CN ( EN )	Issuing date: 2014-05-16	

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : TECHNYL 1011R BRIGHT

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

Uses of the Substance/Mixture : Specific use(s): Manufacture of articles by injection and extrusion

Uses advised against : Not permitted in toys or part of toys, Medical devices, Do not use where contact with food or drinking water is possible.

### 1.3 Details of the supplier of the safety data sheet

Company : Solvay (Shanghai) Engineering Plastic Co., Ltd  
No. 3966 Jindu Road, Xinzhuang Industrial Zone Shanghai 201108 China  
Tel : +86 21 54 83 17 62  
Fax : +86 21 54 42 71 07

E-mail address : information.fds@solvay.com

### 1.4 Emergency telephone number

MULTI LINGUAL EMERGENCY NUMBER (24/7)  
Europe/America/Africa : +44 1235 239 670 (UK)  
Middle East/Africa speaking Arabic : +44 1235 239 671 (UK)  
Asia Pacific : +65 3158 1074 (Singapore)  
China : +86 10 5100 3039 (Beijing)

China (Domestic Only): +86 532 8388 9090 (Qingdao)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification and labeling: Follow GB 13690, GB 20576-GB 20602 and GB 15258 (GHS 2011)

Not a hazardous product according to Globally harmonized System (GHS)

### 2.2 Label elements

GHS Classification and labeling: Follow GB 13690, GB 20576-GB 20602 and GB 15258 (GHS 2011)

Not a hazardous product according to Globally harmonized System (GHS)

### 2.3 Other hazards which do not result in classification

On thermal decomposition (pyrolysis) releases:  
toxic gases

## SECTION 3: Composition/information on ingredients

### 3.1 Substance

Not applicable, this product is a mixture.

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### **3.2 Mixture**

Chemical nature : Product based on polyamide 6 (CAS: 25038-54-4)

### **Information on Components and Impurities**

Chemical Name	CAS-No.	Identification number	GHS Classification	Concentration [%]
zinc distearate	557-05-1	not applicable	Acute toxicity , Category 5 ; H313	>= 0.1 - < 0.3

**For the full text of the H-Statements mentioned in this Section, see Section 16.**

## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

- General advice : Show this safety data sheet to the doctor in attendance.  
First aider needs to protect himself.
- If inhaled : If breathed in, move person into fresh air.  
Move to fresh air.  
If symptoms persist, call a physician.
- Skin contact : Cool skin rapidly with cold water after contact with molten polymer.  
Do not peel solidified product off the skin.  
Consult a physician if necessary.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical advice.
- Ingestion : Do NOT induce vomiting.  
Rinse mouth with water.  
Consult a physician if necessary.

### **4.2 Most important symptoms and effects, both acute and delayed**

no data available

### **4.3 Indication of any immediate medical attention and special treatment needed**

no data available

## **SECTION 5: Firefighting measures**

- Flash point : >400 °C closed cup
- Auto-ignition temperature : > 450 °C
- Flammability/Explosive limit : no data available

### **5.1 Extinguishing media**

- Suitable extinguishing media : All extinguishing agents can be used.
- Unsuitable extinguishing media : None known.

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### **5.2 Special hazards arising from the substance or mixture**

Specific hazards during firefighting : Combustible product, melts on heating.  
Risk of fire spreading due to the flow of liquid which is already alight.  
Harmful or toxic vapours are released.

### **5.3 Advice for firefighters**

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Specific fire fighting methods : Cool the molten product.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

no data available

### **6.2 Environmental precautions**

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.  
The product should not be allowed to enter drains, water courses or the soil.

### **6.3 Methods and materials for containment and cleaning up**

Recovery : Sweep up and shovel.  
Additional advice : Use mechanical handling equipment.

### **6.4 Reference to other sections**

no data available

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Technical measures : Ground/bond container and receiving equipment.  
Advice on safe handling and usage : Ensure all equipment is electrically grounded before beginning transfer operations.  
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat, drink or smoke.

### **7.2 Conditions for safe storage, including any incompatibilities**

Technical Measures for storage : No special storage conditions required.

### **Storage conditions**

Recommended : Protect from moisture.  
Store away from heat.  
Incompatible products : Oxidizing materials.

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**Packaging Measures**

- Packaging materials - Recommended : Fibreboard, Paper bags
- Packaging conditions : Paper bag lined with a plastic film., Cardboard container lined with a plastic film., Big-bag

**Storage stability**

- Storage temperature : no data available

**7.3 Specific end use(s)**

no data available

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Components with workplace foreign Control Parameters**

Components	Value type	Value	Basis
zinc distearate	TWA	10 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
Upper Respiratory Tract irritation, Eye irritation, Skin irritation, Does not include stearates of toxic metals., Not classifiable as a human carcinogen, varies			

**8.2 Exposure controls**

**Control measures**

- Engineering measures : Vapour extraction at source

**Personal protective equipment**

- Hand protection : Wear suitable gloves.  
When handling hot material, use heat resistant gloves.
- Eye protection : Safety glasses
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat, drink or smoke.
- Protective measures : The protective equipment must be selected in accordance with current CEN standards and in cooperation with the supplier of the protective equipment.  
  
Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards and/or risks that may occur during use.

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### Environmental exposure controls

General advice : Do not allow uncontrolled discharge of product into the environment.  
The product should not be allowed to enter drains, water courses or the soil.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: Form : pellets Physical state: solid Colour: white
Odour	: none to very slight
Odour Threshold	: no data available
pH	: no data available
Melting point/range	: 210 - 230 °C
Flash point	: > 400 °C closed cup
Evaporation rate (Butylacetate = 1)	: no data available
Flammability (solid, gas)	: no data available
Flammability (liquids)	: no data available
Flammability/Explosive limit	: no data available
Auto-ignition temperature	: > 450 °C
Vapour pressure	: no data available
Vapour density	: no data available
Density	: no data available
Solubility	: Water solubility : practically insoluble  Solubility in other solvents: common organic solvents : insoluble
Partition coefficient: n-octanol/water	: no data available
Thermal decomposition	: > 350 °C
Viscosity	: no data available
Explosive properties	: no data available
Oxidizing properties	: no data available

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## **9.2 Other information**

no data available

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

no data available

### **10.2 Chemical stability**

Chemical stability : Stable under normal conditions.

### **10.3 Possibility of hazardous reactions**

no data available

### **10.4 Conditions to avoid**

Conditions to avoid : No dangerous reaction known under conditions of normal use.

### **10.5 Incompatible materials**

no data available

### **10.6 Hazardous decomposition products**

Decomposition products : On combustion or on thermal decomposition (pyrolysis) releases:  
highly toxic gases.  
(Carbon oxides (CO + CO<sub>2</sub>)).  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen cyanide (hydrocyanic acid)

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

- Acute oral toxicity : According to the data on the components  
Not classified as harmful if swallowed  
According to the classification criteria for mixtures.
- Acute inhalation toxicity : According to the data on the components  
Not classified as harmful by inhalation  
According to the classification criteria for mixtures.
- Acute dermal toxicity : According to the data on the components  
Not classified as harmful by contact with skin  
According to the classification criteria for mixtures.
- Acute toxicity (other routes of administration) : no data available

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**Skin corrosion/irritation**

Skin irritation  
zinc distearate

: rabbit  
No skin irritation  
Published data

rat  
No skin irritation  
Published data

**Serious eye damage/eye irritation**

Eye irritation  
zinc distearate

: rabbit  
No eye irritation  
Published data

**Respiratory or skin sensitisation**

Sensitisation

: According to the data on the components  
Not classified as sensitising by skin contact  
According to the classification criteria for mixtures.

**Mutagenicity**

Genotoxicity in vitro

: No information available.

Genotoxicity in vivo

: No information available.

**Carcinogenicity**

Carcinogenicity  
zinc distearate

: Animal testing did not show any carcinogenic effects.  
Not classifiable as a human carcinogen.  
Published data

**Toxicity for reproduction and development**

Toxicity to reproduction/Fertility

: no data available

Developmental Toxicity/Teratogenicity

: no data available

**STOT**

STOT - single exposure

: no data available

STOT - repeated exposure

: no data available

**Aspiration toxicity**

Aspiration toxicity

: no data available

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**SECTION 12: Ecological information**

**12.1 Toxicity**

no data available

**12.2 Persistence and degradability**

**Biodegradability**

Biodegradability : Primary biodegradation  
Not biodegradable.  
According to the data on the components  
internal evaluation

**12.3 Bioaccumulative potential**

Partition coefficient: n-octanol/water  
zinc distearate : Not potentially bioaccumulable  
Published data

Bioconcentration factor (BCF) : Not bioaccumulable.  
internal evaluation

**12.4 Mobility in soil**

Known distribution to environmental  
compartments : Ultimate destination of the product : Soil  
Ultimate destination of the product : Sediment

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

Environment assessment  
zinc distearate : Not classified due to lack of data.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Product Disposal**

Advice on Disposal : Dispose of in accordance with local regulations.

**Advice on cleaning and disposal of packaging**

Other data : Dispose of in accordance with local regulations.

**SECTION 14: Transport information**

**CN\_DG**

Not Regulated

