



## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

#### 1.1. Product Name: Polylactic Acid

26153D01AA	PMS (tbd)
26153D02AA	PMS 419
26153D03AA	PMS 032
26153D04AA	PMS 130
26153D05AA	PMS 527
26153D06AA	PMS 286
26153D07AA	PMS 354
26153D50AA	PMS 8402
26153D51AA	PMS 8643
26153D70AA	PMS 427

#### 1.2. Date of issue: August 18, 2014

#### 1.3. Manufacturer/Distributor:

Robert Bosch Tool Corporation  
1800 W. Central Road  
Mt. Prospect, IL 60056

#### 1.4. For More Information Call:

(Monday-Friday, 8:00 AM– 5:00 PM CST)  
Bosch Customer Service  
**(877) 267-2499**

#### In Case Of Emergency Call:

(24 Hours/Day, 7 Days/Week)  
**(877) 303-0891**

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]:** Not a hazardous substance or mixture according to the CLP regulation.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC:** N/A

**Information concerning particular hazards for human and environment:** The product has not been classified as dangerous according to Directive 67/548/EEC and 1999/45/EC.

#### 2.2. Label elements

**Labelling according to Regulation (EC) No 1272/2008[CLP]**

**Hazard pictograms:** Void

**Signal word:** Void

**Hazard statements:** Void

**Precautionary statement(s):** Void

#### 2.3. Other hazards



## SAFETY DATA SHEET

### Results of PBT and vPvB assessment

**PBT:** N/A

**vPvB:** N/A

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

**Chemical characterization:** Mixtures.

**Formula:** N/A

**Molecular weight:** N/A

Components		Concentration (%)
CAS: 9051-89-2 EINECS: /	Polylactic acid	98
CAS: 13463-67-7 EINECS: 236-675-5	Titanium dioxide	0.7
CAS: 1333-86-4 EINECS: 215-609-9	Carbon black	0.5
CAS: 57455-37-5 EINECS: /	Ultramarine blue	0.8

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

**After inhalation:** Remove to fresh air. If breathing is labored or stopped, give artificial respiration. Get immediate medical attention.

**After skin contact:** Wash with water.

**After eye contact:** Flush eyes with large amounts of water at least 15 minutes. Consult a physician if irritation persists.

**After swallowing:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

No further relevant information available.

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

No further relevant information available.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

**Suitable extinguishing agents:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides.

#### 5.3. Advice for firefighters

**Protective equipment:** Wear self-contained breathing apparatus for fire fighting.

#### 5.4. Further information

No data available.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Use the personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas.



## SAFETY DATA SHEET

### 6.2. Environmental precautions

Prevent product from entering drains or open waters.

### 6.3. Methods and material for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Handling

**Precautions for safe handling:** Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventative fire protection.

**Information about fire – and explosion protection:** Keep away from fire.

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

**Requirements to be met by storerooms and receptacles:**

Store in a cool, dry, well-ventilated area.

**Information about storage in one common storage facility:** Store away from fire.

**Further information about storage conditions:** Store away from heat source.

### 7.3. Specific end use(s): No further information available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Additional information about design of technical facilities:** No further data; see section 7.

### 8.1. Control parameters

**DNELs:** Not applicable.

**PNECs:** Not applicable.

**Additional information:** No known exposure limit.

### 8.2. Exposure controls

**Appropriate engineering controls:** Washing hands before rest or at the end of work.

**Personal protective equipment**

**General protective and hygienic measures:**

**Respiratory protection:** Respiratory protection is not required.

**Protection of hands:** None needed under normal use.

**Eye protection:** None needed under normal use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

**General information**

**Appearance:**

**Form:** Solid

**Color:** Light yellow

**Odor:** odorless

**Odor threshold:** Not applicable

**pH-value:** Not applicable.

**Change in condition:**

**Melting point/Melting range:** >176°C

**Boiling point/Boiling range:** No data available

**Flash point:** Not applicable (no flash point)

**Flammability (solid, gaseous):** Slight

**Auto-ignition temperature:** >380°C

**Self-igniting:** Product is not self-igniting



## SAFETY DATA SHEET

**Danger of explosion:** Product does not present an explosion hazard.

**Explosion limits:**

**Lower:** Not applicable

**Upper:** Not applicable

**Oxidizing properties:**

**Vapor pressure:** Not available

**Density:** >1 (water=1)

**Evaporation rate:** Not available

**Solubility in/Miscibility with water:** Insoluble in water

**Partition coefficient (n-octanol/water):**

**Viscosity:**

**Dynamic:** Not applicable

### 9.2. Other information

No further relevant information available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

Stable at normal temperatures and storage conditions.

### 10.3. Thermal decomposition

No decomposition if used according to specifications.

### 10.4. Possibility of hazardous reactions

No dangerous reactions known.

### 10.5. Conditions to avoid

Exposure to high temperatures and direct flames.

### 10.6. Incompatible materials

Strong oxidizing agents.

### 10.7. Hazardous decomposition products

No dangerous decomposition products known.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

**Acute toxicity:** Non-toxic

**Primary irritant effect:**

**On the skin:** No irritation, non-sensitizing

**On the eye:** Slight irritating to the eyes.

**Sensitization:** Sensitization impossible through skin contact.

**Additional toxicological information:** When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Toxicity to aquatic organism:** Non-toxic.

### 12.2. Persistence and degradability

Degradation products are less toxic than the original product.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment



---

## SAFETY DATA SHEET

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 12.6. Other adverse effects

No data available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Recommendation:** Small amounts can be discarded with household waste. Dispose of bigger amounts in accordance with Local Authority requirements.

### 13.2. Uncleaned packaging:

**Recommendation:** Follow all local, state, and federal regulations for disposal of waste chemicals.

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN-Number

**ADR:** Not regulated.

**IMDG:** Not regulated.

**IATA:** Not regulated.

### 14.2. UN proper shipping name

**ADR:** Not dangerous goods for transport.

**IMDG:** Not dangerous goods for transport.

**IATA:** Not dangerous goods for transport.

### 14.3. Transport hazard class(es)

**ADR:** Not regulated.

**IMDG:** Not regulated.

**IATA:** Not regulated.

### 14.4. Packing group

**ADR:** Not applicable.

**IMDG:** Not applicable.

**IATA:** Not applicable.

### 14.5. Special precautions for user

Don't transport at high temperatures.

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health, and environment regulations/legislations specific for the substance or mixture.

No specifically regulations for this product.

### 15.2. National regulations:

**SVHC Candidate List of REACH Regulation Annex XIV Authorization (12/19/2011)**

**REACH Regulation Annex XVII Restriction (2/9/2012)**

**REACH Regulation Annex XIV Authorization List (2/15/2012)**

### 15.3. Chemical safety assessment

## SECTION 16: OTHER INFORMATION

### 16.1. Relevant phrases

None.

### 16.2. Abbreviations and acronyms

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

**IMDG:** International Maritime Code for Dangerous Goods

**IATA:** International Air Transport Association

**GHS:** Globally Harmonized System of Classification and Labeling of Chemicals



## SAFETY DATA SHEET

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

Although Robert Bosch Tool Corporation has attempted to provide current and accurate information herein, Robert Bosch Tool Corporation makes no representations regarding the accuracy or completeness of the information and assumes no liability for any loss, damage, injury of any kind which may result from or arise out of the use of or reliance on the information by any person.

It shall be the responsibility of the customer purchasing this product to ensure that all employees/users of this product are familiar with and trained in the handling, use and hazards associated with this product as contained herein. This responsibility shall also extend directly to the user.