



## Safety Data Sheet

(REACH Regulation (EC) N° 1907/2006 - N° 453/2010)

Effective Date: March 30, 2017

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

#### 1.1 Product identifier

Product name: ARGEDENT Y73

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

Relevant identified uses of the substance or mixture

Manufacturing of a fixed or removable dental prosthesis in a dental laboratory

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

Manufacturer:

Company name: The Argen Corporation

Full address: 5855 Oberlin Drive, San Diego, CA 92121-4718. USA

Technical Service: 1-800-255-5095 Customer Care: 1-800-255-5095

Fax: 1-858-626-8686

E-mail address of competent person responsible for the SDS: [info@argen.com](mailto:info@argen.com)

#### 1.4 Emergency telephone number

Emergency telephone number: Chemtrec: 1-703-741-5970 (collect calls accepted)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification information

This product does not meet the classification criteria in (EC) N° 1272/2008 (CLP)

This product does not meet the labeling criteria stated in 67/548/EWG and 1999/45/EC

#### 2.2 Label elements

Labeling is in accordance with (EC) No 1272/2008 (CLP Regulation). Label elements in the solid form which the product is marketed

#### 2.3 Other hazards

EYES	Contact with eyes may cause severe irritation and possible eye burns.
SKIN:	May cause severe irritation and possible burns.
INGESTION:	May cause gastrointestinal irritation with nausea, vomiting, and diarrhea.
INHALATION:	May cause irritation and burns to the respiratory tract.
SILVER	Absorption of silver compounds by ingestion, inhalation or through broken skin can cause argyria, a permanent bluish-grey discoloration of the skin, conjunctiva and mucous membranes. Generalized argyria develops after 2 to 25 years of exposure. There are no systematic effects or symptoms and no physical disability. Silver is considered an experimental equivocal tumorigenic agent by RTECS criteria.
INDIUM	May cause fetal effects based upon animal studies. May cause lung damage and blood abnormalities. Target Organs: Blood, kidneys, liver, lungs.
MANGANESE	Dust inhalation may cause tightness and pain in chest, coughing, and difficulty in breathing. Inhalation of dust may cause headache, nausea, vomiting, shortness of breath, or blurred vision. Dust may irritate skin or eyes. Ingestion may cause central nervous system depression. Prolonged inhalation of Manganese in the form of its inorganic compounds may cause Manganism. Target organs: Respiratory system, central nervous system, blood, kidneys. Medical conditions generally aggravated by exposure: Chronic respiratory disease, liver or kidney disorders, psychiatric disorders, alcoholism, and nerve system disorders.
NIOBIUM	May cause kidney damage.

RHENIUM	The toxicological properties of this material have not been investigated. Use appropriate procedures to prevent direct contact and inhalation.
RUTHENIUM	The toxicological properties of this substance have not been fully investigated. May be harmful if swallowed.
TANTALUM	The toxicological properties of this material have not been investigated. Possibly toxic via oral, skin, and mucous membrains. Moderate to severe erythema (redness) and moderate edema (raised skin).

PBT assesment  
No data available

vPvB assessment  
No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

This product is not a substance - This is not applicable

### 3.2. Mixtures

Ingredients:

METAL	%	SYMBOL	CAS NO	EC/EG NO	ACGIH 8 HR TLV	OSHA 8 HR PEL
GOLD	73.8	Au	7440-57-5	231-165-9	Not established	Not established
PLATINUM	8.5	Pt	7440-06-4	231-116-1	No data	No data
PALLADIUM	5.4	Pd	7440-05-3	231-115-6	No data	No data
SILVER	8.98	Ag	7440-22-4	231-131-3	0.01 mg/m3	0.1 mg/m3
RUTHENIUM	<1	Ru	7440-18-8	231-127-1	No data	No data
INDIUM	1.9	In	7440-74-6	231-180-0	0.1 mg/m3	0.1 mg/m3 TWA
IRON	<1	Fe	7439-89-6	231-096-4	5 mg/m3	10mg/m3
TANTALUM	<1	Ta	7440-25-7	231-135-5	5 mg/m3	5 mg/m3
NIOBIUM	<1	Nb	7440-03-01	231-113-5	No data	No data
LITHIUM	<1	Li	7439-93-2	231-102-5	No data	No data
RHENIUM	<1	Re	7440-15-5	231-124-5	No data	No data
MANGANESE	<1	Mn	7439-96-5	231-105-1	5 mg/m3	5 mg/m3

Note: % values are in weight percent and reflect nominal composition.

Note: 'x' denotes a content of less than one percent

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

EYE CONTACT:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.
SKIN CONTACT:	Scrub skin thoroughly with soap and water. If victim is conscious and alert, give 2-4 cupfuls of milk or water
INGESTION:	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Induce vomiting. **Never give anything by mouth to an unconscious person. Get medical aid.

**INHALATION:** Remove affected person to fresh air and assist with additional oxygen if necessary. Get first aid if other symptoms appear.

#### 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

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### SECTION 5: Fire-fighting measures

#### 5.1. Extinguishing media

Metal fire powders, sand

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

Heating Beyond the melting range may generate fumes which are not flammable

#### 5.3. Advice for fire-fighters

Wear protective clothing and use a self-contained breathing apparatus

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### SECTION 6: Accidental release measures

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

##### For non-emergency personnel

Use proper personal protective equipment as described in section 8.

##### For emergency responders

Use proper personal protective equipment as described in section 8.

#### 6.2. Environmental precautions

Collect contaminated materials in separate containers. Discharge according to local regulations.

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

Avoid creating dust and pick-up using mechanical means

#### 6.4. Reference to other sections

No data available

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Ensure the workspace has proper ventilation

Do not consume substances during work.

General protective and hygiene measures

Wash hands before and after breaks. Remove contaminated clothing immediately. Do not ingest, or allow to come into contact with the eyes.

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

Keep container closed in a ventilated area

#### 7.3. Specific end use(s)

No data available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Occupational exposure limit values

#### 8.2. Exposure controls

##### RESPIRATORY:

RESPIRATORY: Provide general ventilation and local exhaust to keep levels below the TLV stated in SECTION 3. Wear a NIOSH approved respirator for dust exceeding the TLVs.

Latex gloves are recommended while grinding, heat resistant gloves should be worn while casting and handling hot metals or molds.

EYE PROTECTION:	Wear eye protection suitable to each individual operation.
OTHER:	Wear apron, lab coat or other protective clothing.

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## SECTION 9: Physical and chemical properties

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

Appearance:	PALE YELLOW
Odor:	Not Applicable
pH:	Not Applicable
Boiling Point:	Not Applicable
Melting Range:	1050-1170 °C
Flash Point:	Not Applicable
Flammability:	Not Applicable
Autoflammability:	Not Applicable
Explosive Properties:	Not Applicable
Oxidizing Properties:	Not Applicable
Vapor Pressure:	Not Applicable
Solubility(Water/Fat):	Insoluble

### 9.2. Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

At ordinary and high (below the melting range) temperatures, the material oxidizes but is stable. At very high temperatures the alloy produces fumes.

### 10.2. Chemical stability

Product is stable under normal storage and handling conditions. See Section 7.

### 10.3. Possibility of hazardous reactions

Hydrogen gas can possibly form if the product comes into contact with acid

### 10.4. Conditions to avoid

N/A if the product is handled according to the Instructions for Use

### 10.5. Incompatible materials

Acid

### 10.6. Hazardous decomposition products

None are known

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

No data is available other than the information provided in Sections 2 and 3

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## SECTION 12: Ecological information

### 12.1. Toxicity

No data available

### 12.2. Persistence and degradability

No data available

**12.3. Bio-accumulative potential**

No data available

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

No data available

**12.6. Other adverse effects**

No data available

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**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Product:

Always recover all waste material and send to Department A at The Argen Corporation for refining.

Packaging:

Empty container completely and dispose according to local regulations.

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**SECTION 14: Transport information****14.1. Transport ADR/RID/AND**

This product is not subject to ADR/RID/AND regulations

**14.2. Transport IMDG**

This product is not subject to IMDG regulations

**14.3. Transport ICAO-TI / IATA**

This product is not subject to ICAO-Ti / IATA regulations

**14.4. Other information**

No data available

No data available

**14.5. Environmental hazards**

No data is available other than the information provided in Sections 2 and 3

This product is not subject to ICAO-Ti / IATA regulations

**14.6. Special precautions for user**

none

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable

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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Germany:

Wassergefährdungsklasse WGK (VwVwS): WGK-1 (self-assessed)

**15.2. Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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**SECTION 16: Other information****16.1. Training advice**

In addition to health, safety and environmental training programs for their workers, companies must ensure that workers read, understand and apply the requirements of this SDS.

**16.2. Disclaimer**

The information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof. However, THE ARGEN CORPORATION makes no representations as to the completeness of accuracy thereof and information is supplied upon the condition that the persons receiving the above material will make their own

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