

# SAFETY DATA SHEET

Issue Date

26-Sept-2018

Revision Date 29-Mar-2020

Version 2

### 1. IDENTIFICATION

Product Identifier Product Name JET XR POWDER

 Other means of identification

 SDS#
 014

 Product Code
 4310, 4320, 4330

 Recommended use of the chemical and restrictions on use
 Recommended Use

 Recommended Use
 Fabrication of custom radiopaque diagnostic guides and stents

Details of the supplier of the safety data sheet

Supplier Address Lang Dental Mfg. Co., Inc. 175 Messner Dr. Wheeling, IL 60090 USA

<u>Australian Emergency telephone number</u> Emergency Telephone

13 11 26 (Poisons Hotline 24 hours / 7 days)

Australian Distributor

Ultimate Dental 660A South Road MOORABBIN VIC 3189 Tel: 03 9532 1799 Fax: 03 95559458 Email: info@ultimatedental.com.au www.ultimatedental.com.au

### 2. HAZARDS IDENTIFICATION

**Classification** 

Skin sensitization

Category 1

Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.

Powder



Appearance Fine, white

Odor Faint odor in bulk

**Precautionary Statements - Prevention** 

P261 Avoid breathing dust, fumes, gas, mist, vapors or spray.

P264 Wash hands and exposed skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace. P280

Wear protective gloves/protective clothing/eye protection/face protection. Precautionary Statements - Response

P302+P352 IF ON SKIN: Wash with soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

#### **Precautionary Statements - Disposal**

P501 Dispose of contents/container to an approved waste disposal plant.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight - %	Trade Secret
Polymer	9011-14-7	< 99	*
Barium sulfate	7727-43-7	< 50	*
Diethyl phthalate	84-66-2	< 20	*

#### 4 FIRST AID MEASURES

#### First aid measures

Inhalation	Remove to fresh air. Get medical attention if discomfort persists.
Eye contact	Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. If irritation persists, get medical advice / attention.
Ingestion	Do NOT induce vomiting. Drink plenty of water or milk immediately. If vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately and provide an estimate of when and how much material was ingested.
Skin Contact Most important symptoms a	Wash with soap and water. If irritation persists, call a physician. Take off contaminated clothing and wash before reuse. nd effects, both acute and delayed
Symptoms	Eyes, skin and respiratory tract may be irritated by gross overexposure to particulates. Eyes may have symptoms of redness, itching, irritation and watering from overexposure. Ingestion of large amounts may be irritating if product is swallowed; may cause nausea, headache, vomiting and/or diarrhea.
Indication of any immediate	medical attention and special treatment needed
Note to physicians	Provide general supportive measures and treat symptomatically. Persons with impaired lung function or asthma-like conditions may experience additional breathing difficulties.

### 5 FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable: Water, carbon dioxide (CO<sub>2</sub>), dry chemical

Unsuitable:

table: Avoid extinguishing methods which may generate dust clouds. Water stream can disperse dust in air producing a fire hazard and possible explosion hazard if exposed to ignition source.

Specific hazards arising from the chemical

For bulk size: Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.

#### Protective equipment and precautions for firefighters

Self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

#### 6 ACCIDENTAL RELEASE MEASURES

Personal precautions,	protective equipment and	emergency procedures

Personal precautions	Use personal protective equipment as required. Remove any contaminated clothing and wash thoroughly before reuse.
Environmental precautions	See Section 12 for additional ecological information.
Methods and material for containment Method for containment	<u>t and clean-up</u> Prevent further leakage or spillage if safe to do so.
Method for clean-up	Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills. Clean up in accordance with all applicable regulations. Wash all affected areas with plenty of warm water and soap.

#### 7. HANDLING AND STORAGE

Precautions for safe handling	1
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Advice on safe handling	Use only in well-ventilated areas. Avoid contact with skin, eyes or clothing. Avoid breathing dust or
	fume. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after
	handling. Do not eat, drink or smoke when using this product.

Conditions 1	for safe s	torage, inc	cluding any	<u>y incompatibilities</u>	
		-			

Storage Conditions	Keep containers tightly closed to prevent water absorption and contamination. Store in a dry, cool
	and well-ventilated place away from direct sunlight or other sources of light or intense heat. Preferable
	storage temperature not to exceed 35°C.

Packaging materials Keep in original container.

Incompatible materials Strong oxidizing agents

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines					
	Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
	Barium sulfate	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5	
	7727-43-7		TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA:	mg/m <sup>3</sup> respirable dust	
			10 mg/m <sup>3</sup> total dust (vacated)		
			TWA: 5 mg/m <sup>3</sup> respirable fraction		
Ī	Diethyl phthalate 84-66-2	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (vacated)	TWA: 5 mg/m <sup>3</sup>	

Appropriate engineering controls Apply technical measures to comply with the occupational exposure limits. When working with

large quantities of product, provide adequate ventilation (e.g. local exhaust ventilation, fans). Ensure that

Individual protection measures, such as pe Eye / face protection	an eyewash station, sink or washbasin is available in case of exposure to eyes. Use good local exhaust at processing equipment, including buffers, sanders, grinders and polishers. <u>rsonal protective equipment</u> Depending on the use of this product, safety glasses or goggles may be worn. If necessary, refer to US OSHA 29 CFR SS1910.133, Canadian standards or the European Standard EN 166. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.
Skin and body protection	If anticipated that prolonged and repeated skin contact will occur during use of this product, wear gloves for routine industrial use. If necessary, refer to US OSHA 29 CFR SS1910.138 or the appropriate standards of Canada or the EC member states.
Respiratory protection	No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per US OSHA requirement in 29 CFR SS 1910.134, or applicable US state regulations, or the appropriate standards of Canada, its provinces, EC member states or Australia. VENTILATION: Local exhaust at processing equipment.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Powder	Odor	Faint odor in bulk
Appearance	Fine	Odor threshold	Not determined
Color	White		
Property	Values	Remarks / Method	
рН	Not determined		
Melting point / freezing point	Not determined		
Boiling point / boiling range	Not applicable		
Flash point	304°C / 580°F		
Evaporation rate	Not applicable		
Flammability (solid, gas)	Non-flammable		
lammability limits in air			
Upper flammability limit	Not applicable		
Lower flammability limit	Not applicable		
/apor pressure	Not applicable		
/apor density	Not applicable		
Specific gravity	Not determined		
Nater solubility	Insoluble in water		
Solubility in other solvents	Not determined		
Partition coefficient	Not determined		
Autoignition temperature Decomposition	Not determined		
emperature	Not determined		
Kinematic viscosity	Not determined		
Dynamic viscosity	Not determined		
Explosive properties	Not determined		
Dxidizing properties	Not determined		

## **10. STABILITY AND REACTIVITY**

Reactivity	Not reactive under normal conditions
Chemical stability	Stable under recommended storage conditions
Possibility of hazardous reactions	None under normal processing

Hazardous polymerization Does not occur.

Conditions to avoid

\_Heating above 240°C / 464°F

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products Methacrylate monomer, oxides of carbon when burned

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposures

Product information

This product has not been tested on animals to obtain toxicology data.

Inhalation Eye	May cause irritation of respiratory tract.
contact Skin	Avoid contact with eyes.
contact	May cause temporary irritation on skin contact.
Ingestion	May cause gastrointestinal irritation, nausea, diarrhea and vomiting

Component information

Chemical Name ORAL LD50		DERMAL LD50	INHALATION LC50
Diethyl phthalate 84-66-2	8600 mg/kg (rat)	> 11200 mg/kg (rat)	-

#### Information on physical, chemical and toxicological effects

Symptoms See Section 4.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

Not classifiable as a human carcinogen (IARC group 3)

Numerical measures of toxicity - Product

#### Not determined

### 12. ECOLOGICAL INFORMATION

# Ecotoxicity There is no specific data available for this product; however, very large releases may be harmful or fatal to overexposed

	aquatic life.			
Chemical Name	Algae / aquatic plants	Fish		Crustacea
			Toxicity to microorganisms	
Diethyl phthalate 84-66-	23: 72 h Desmodesmus subspicatus mg/L	17: 96 h Pimephales promelas mg/L		36-74: 48 h Daphnia magna mg/L
2	EC50;	LC50 flow-through;		EC50;
	23: 72 h Desmodesmus subspicatus mg/L	16.8: 96 h Pimephales promelas mg/L		86: 48 h Daphnia magna mg/L EC50
	EC50 static;	LC50 static;		static
	21: 96 h Desmodesmus subspicatus mg/L	22: 96 h Lepomis macrochirus mg/L		
	EC50;	LC50 flow-through;		
	21: 96 h Desmodesmus subspicatus mg/L	16.7: 96 h Lepomis macrochirus mg/L		
	EC50 static;	LC50 static;		
	42-255: 72 h Pseudokirchneriella subcapitata	12: 96 h Oncorhynchus mykiss mg/L		
	mg/L EC50; 2.11-4.29: 96 h	LC50 flow-through		
	Pseudokirchneriella subcapitata mg/L EC50			
	static			

#### Persistence and degradability

Not determined

**Bioaccumulation** 

Not determined

**Mobility** 

Not determined

Chemical Name	Partition coefficient	
Diethyl Phthalate 84-66-2	2.35	

Other adverse effects

Not determined

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal of wastes** 

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** 

For bulk only: Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards due to residual material associated with empty containers. Dispose of all empty containers properly in accordance with federal, state and local regulations.

Chemical Name	RCRA	RCRA-Basis for listing	RCRA-D Series Wastes	RCRA-U Series Wastes
Diethyl Phthalate 84-66-2	U088	Included in waste stream:	-	U088
-		F039		
Chemical Name	California Hazaro	California Hazardous Waste Status		
Barium Sulfate 7727-43-7	Toxic soluble			

#### 14. TRANSPORTATION INFORMATION

DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated

### 15. REGULATORY INFORMATION

International Inventories

TSCA For use in FDA regulated products only United States Toxic Substances Control Act, Section 8(b) Inventory

US Federal Regulations

Teueral Negulations						
Chemical Name	CAS N	0		Weight-%		
					SAR	A 313 - Threshold Values %
Barium sulfate	7727-43	-7		< 50		1.0
ARA 311/312 Hazard Categorie	S					
Chemical Name	CWA-Reportable Quantities	CWA-Toxic	Pollutants	CWA-Priority Pollutants	5	CWA-Hazardous Substances
	•		х	Х		-
Diethyl Phthalate 84-66-2						
Chemical Name	Hazardous Substa	Hazardous Substances RQs		RCLA/SARA RQ	R	eportable Quantity (RQ) Final
Diethyl Phthalate 84-66-2	1000 lb	1000 lb.		-		1000 lb. / 454 kg
<u>i State Regulations</u> i State Right-to-know Regulati	ons					
Chemical Name	New Jers	sey	М	assachusetts		Pennsylvania
Barium sulfate 7727-43-7	X	X		X		X

Bari	um sulfate //2/-43-/	^	Λ.	Λ
Diet	hyl Phthalate 84-66-2	Х	Х	X

#### 16. OTHER INFORMATION

HMIS	Health Hazards	Flammability	Physical Hazards
	1	1	0

Issue Date26-Sept-2018Revision Date29-Mar-2020Revision NoteUpdate Section1,2

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet