# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

074593943

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

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# SAFETY DATA SHEET

Issue Date 26-Sept-2014 Revision Date 29-Mar-2016 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 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

**Emergency telephone number** 

Company Phone Number 847-215-6622

Emergency Telephone (INFOTRAC) 352-323-3500 (International)

800-535-5053 (North America)

<u>Authorized European Representative</u> MediMark® Europe SARL

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# 2. HAZARDS IDENTIFICATION

#### Classification

Skin sensitization Category 1

Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.



Physical State Powder Appearance Fine, white Odor Faint odor in bulk

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#### **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	*

<sup>\*</sup>Specific chemical weight has been withheld as a trade secret.

# 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 Wash with soap and water. If irritation persists, call a physician. Take off contaminated clothing and wash

before reuse.

#### Most important symptoms and 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: 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.

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#### 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 and clean-up

**Method for containment** 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

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 for safe storage, including any incompatibilities

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/m³ total dust	TWA: 15 mg/m <sup>3</sup> total dust
7727-43-7		TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated)	TWA: 5 mg/m <sup>3</sup> respirable dust
		TWA: 10 mg/m <sup>3</sup> total dust (vacated)	
		TWA: 5 mg/m³ respirable fraction	
Diethyl phthalate 84-66-2	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m³ (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 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.

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#### Individual protection measures, such as personal protective equipment

Eye / face protection 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

# Information on basic physical and chemical properties

Physical statePowderOdorFaint odor in bulkAppearanceFineOdor thresholdNot determined

**Color** White

Property Values Remarks / Method

Not applicable

pH Not determined
Melting point / freezing point
Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)
Not applicable
Non-flammable
Flammability limits in air

Flammability limits in air Upper flammability limit

Lower flammability limit Not applicable Vapor pressure Not applicable Not applicable Vapor density Not determined Specific gravity Water solubility Insoluble in water Solubility in other solvents Not determined Partition coefficient Not determined **Autoignition temperature** Not determined **Decomposition temperature** Not determined Kinematic viscosity Not determined Dynamic viscosity Not determined **Explosive properties** Not determined **Oxidizing properties** Not determined

# 10. STABILITY AND REACTIVITY

Reactivity Not reactive under normal conditions

<u>Chemical stability</u> Stable under recommended storage conditions

<u>Possibility of hazardous reactions</u> None under normal processing

Hazardous polymerization Does not occur.

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<u>Conditions to avoid</u> Heating above 240°C / 464°F

<u>Incompatible materials</u> Strong oxidizing agents

<u>Hazardous decomposition products</u> 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** May cause irritation of respiratory tract.

**Eye contact** Avoid contact with eyes.

**Skin 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)

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	Toxicity to	Crustacea
			microorganisms	
Diethyl phthalate 84-66-2	23: 72 h Desmodesmus subspicatus mg/L EC50; 23: 72 h Desmodesmus subspicatus mg/L EC50 static; 21: 96 h Desmodesmus subspicatus mg/L EC50; 21: 96 h Desmodesmus subspicatus mg/L EC50; 21: 97 h Desmodesmus subspicatus mg/L EC50 static; 42-255: 72 h Pseudokirchneriella subcapitata mg/L EC50; 2.11-4.29: 96 h Pseudokirchneriella	17: 96 h Pimephales promelas mg/L LC50 flow-through; 16.8: 96 h Pimephales promelas mg/L LC50 static; 22: 96 h Lepomis macrochirus mg/L LC50 flow-through; 16.7: 96 h Lepomis macrochirus mg/L LC50 static; 12: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	-	36-74: 48 h Daphnia magna mg/L EC50; 86: 48 h Daphnia magna mg/L EC50 static
	subcapitata mg/L EC50 static			

<u>Persistence and degradability</u> Not determined

<u>Bioaccumulation</u> Not determined

<u>Mobility</u> Not determined

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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	U088	Included in waste stream:	-	U088
84-66-2		F039		

Chemical Name	California Hazardous Waste Status
Barium Sulfate	Toxic soluble
7727-43-7	

# 14. TRANSPORTATION INFORMATION

DOTNot regulatedIATANot regulatedIMDGNot 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**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Barium sulfate	7727-43-7	< 50	1.0

# SARA 311/312 Hazard Categories

Chemical Name	CWA-Reportable Quantities	CWA-Toxic Pollutants	CWA-Priority Pollutants	CWA-Hazardous Substances
Diethyl Phthalate	-	X	X	-
84-66-2				

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ) Final
Diethyl Phthalate 84-66-2	1000 lb.	•	1000 lb. / 454 kg

# **US State Regulations**

# US State Right-to-know Regulations

or other right to his or rogardine.						
Chemical Name	New Jersey	Massachusetts	Pennsylvania			
Barium sulfate 7727-43-7	X	X	X			
Diethyl Phthalate 84-66-2	X	Х	Х			

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# **16. OTHER INFORMATION**

HMIS	Health Hazards	Flammability	Physical Hazards
	1	1	0

Issue Date26-Sept-2014Revision Date29-Mar-2016Revision NoteUpdate Section 1, 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

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