

SAFETY DATA SHEETS

This SDS packet was issued with item:

074597100

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

074597191 074598371

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

074598041 074598058 071085281 074594081 074595674 074595682 074596169 074596193 074596227 074596250
074596284 074596318 074596342 074596375 074596409 074596433 074596466 074596474 074596490 074596524
074596532 074596557 074596987 074596995 074597019 074597043 074597076 074597134 074597167 074597225
074597258 074597282 074597316 074597332 074597340 074597357 074597365 074597373 074597381 074597399
074597407 074597415 074597423 074597431 074597449 074597456 074597464 074597472 074597480 074597498
074597506 074597944 074597969 074598355



SAFETY DATA SHEET

Issue Date 26-Sept-2014

Revision Date

Version 1

1. IDENTIFICATION

Product Identifier

Product Name JET TOOTH SHADE POWDER

Other means of identification

SDS# 018

Product Code 1410, 1412, 1420, 1430, 1450, 1470, 1480, 1484, 1493

Recommended use of the chemical and restrictions on use

Recommended Use Fabrication of provisional crowns and bridges

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)

2. HAZARDS IDENTIFICATION

Classification This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122); however, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product and should be retained for employees and other users of this product.

Physical State Powder **Appearance** Fine, pigmented **Odor** Faint odor in bulk

Hazards not otherwise classified (HNOC) Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight - %	Trade Secret
Polymer	9011-14-7	< 90	*
Diethyl phthalate	84-66-2	< 20	*

*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.

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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 Skin contact may aggravate an existing dermatitis. Direct contact with eyes may cause temporary irritation.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable: Water, carbon dioxide (CO₂), dry chemical

Unsuitable: Avoid extinguishing methods which may generate dust clouds.

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.

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
Diethyl phthalate 84-66-2	TWA: 5 mg/m ³	TWA: 5 mg/m ³ (vacated)	TWA: 5 mg/m ³

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.

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 state	Powder	Odor	Faint odor in bulk
Appearance	Fine	Odor threshold	Not determined
Color	Pigmented		

<u>Property</u>	<u>Values</u>	<u>Remarks / Method</u>
pH	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	
Flammability limits in air		
Upper flammability limit	Not applicable	
Lower flammability limit	Not applicable	
Vapor pressure	Not applicable	

Vapor density	Not applicable
Specific gravity	Not determined
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
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	Not expected to be an inhalation hazard under normal conditions of intended use
Eye contact	Avoid contact with eyes.
Skin contact	Avoid contact with skin.
Ingestion	Do not taste or swallow.

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	Skin contact may aggravate an existing dermatitis. Direct contact with eyes may cause temporary irritation.
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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)
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Numerical measures of toxicity – Product	Not determined
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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 microorganisms	Crustacea
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 static; 42-255: 72 h Pseudokirchneriella subcapitata mg/L EC50; 2.11-4.29: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	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

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: F039	-	U088

14. TRANSPORTATION INFORMATION

DOT

Not regulated

IATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION

International Inventories

Jet Tooth Shade Powder 018

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TSCA
DSL

For use in FDA regulated products only
Listed

United States Toxic Substances Control Act, Section 8(b) Inventory
Canadian Domestic Substances List

US Federal Regulations

SARA 311/312 Hazard Categories

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

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Diethyl Phthalate 84-66-2	X	X	X

16. OTHER INFORMATION

HMIS	Health Hazards	Flammability	Physical Hazards
	1	1	0

Issue Date 26-Sept-2014

Revision Date

Revision Note

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



SAFETY DATA SHEET

Issue Date 26-Sept-2014

Revision Date 17-April-2015

Version 2

1. IDENTIFICATION

Product Identifier

Product Name JET TOOTH SHADE POWDER

Other means of identification

SDS# 018

Product Code 1410, 1412, 1420, 1430, 1450, 1470, 1480, 1484, 1493

Recommended use of the chemical and restrictions on use

Recommended Use Fabrication of provisional crowns and bridges

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)

Authorized European Representative Medimark® Europe SARL
11, rue Emile Zola – BP 2332
38033 Grenoble Cedex 2
France
Tel: +33 476 86 43 22
Fax: +33 476 17 19 82
Email: info@medimark-europe.com

2. HAZARDS IDENTIFICATION

Classification This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122); however, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product and should be retained for employees and other users of this product.

Physical State Powder **Appearance** Fine, pigmented **Odor** Faint odor in bulk

Hazards not otherwise classified (HNOC) Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight - %	Trade Secret
Polymer	9011-14-7	< 90	*
Diethyl phthalate	84-66-2	< 20	*

*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	Skin contact may aggravate an existing dermatitis. Direct contact with eyes may cause temporary irritation.
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Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable:	Water, carbon dioxide (CO ₂), dry chemical
Unsuitable:	Avoid extinguishing methods which may generate dust clouds.

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.
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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
Diethyl phthalate 84-66-2	TWA: 5 mg/m ³	TWA: 5 mg/m ³ (vacated)	TWA: 5 mg/m ³

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.

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 state	Powder	Odor	Faint odor in bulk
Appearance	Fine	Odor threshold	Not determined
Color	Pigmented		

<u>Property</u>	<u>Values</u>	<u>Remarks / Method</u>
pH	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	
Flammability limits in air		
Upper flammability limit	Not applicable	
Lower flammability limit	Not applicable	
Vapor pressure	Not applicable	
Vapor density	Not applicable	
Specific gravity	Not determined	
Water solubility	Insoluble in water	
Solubility in other solvents	Not determined	
Partition coefficient	Not determined	
Auto ignition 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

<u>Reactivity</u>	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.
<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	Not expected to be an inhalation hazard under normal conditions of intended use
Eye contact	Avoid contact with eyes.
Skin contact	Avoid contact with skin.
Ingestion	Do not taste or swallow.

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 Skin contact may aggravate an existing dermatitis. Direct contact with eyes may cause temporary irritation.

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	Toxicity to microorganisms	Crustacea
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 static; 42-255: 72 h Pseudokirchneriella subcapitata mg/L EC50; 2.11-4.29: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	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

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 Follow all local and national government regulations in disposing material or contaminated packaging.

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: F039	-	U088

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
DSL Listed Canadian Domestic Substances List

EU Regulations EC No. 1272/2008 (CLP) Classification, Labeling, Packaging
Medical Devices Directive 93/42/EEC - Class I Medical Devices

US Federal Regulations

SARA 311/312 Hazard Categories

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

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Diethyl Phthalate 84-66-2	X	X	X

16. OTHER INFORMATION

HMIS	Health Hazards	Flammability	Physical Hazards
	1	1	0

Issue Date 26-Sept-2014
Revision Date 17-April-2015
Revision Note Section 1 - add EU representative, Section 13 - reword disposal, Section 15 - add EU regulation

Disclaimer

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End of Safety Data Sheet