

MATERIAL SAFETY DATA SHEET


In compliance with EC Regulation 1223/2009

Version : 04

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING	
1.1. Product identifier	
Item name: HELIOS AURA Base Coat Item#: HGPBC01	
1.2. Relevant identified uses of the substance or mixture and uses advised against	
UV-curing nail polish, cosmetic.	
1.3. Details of the supplier of the safety data sheet	
Responsible person:	Pretty Woman LLC 35 Corporate Drive, Holtsville, NY 11742, USA TEL: (+1) 888-7737-800 FAX: (+1) 631-438-0481 e-mail: johnm@prettywomanusa.com web: www.prettywomannyc.com E-mail of person responsible for Product Safety Data Sheet: www.prettywomannyc.com
1.4. Emergency telephone number	
EU:911 Emergency telephone for other regions to be filled out by local business	

2. HAZARDS IDENTIFICATION	
2.1. Classification of the substance or mixture	
According to regulation (EC) No 1272/2008:	Acute Tox. 4; H302 Skin Sens. 1; H317 Eye Dam. 1; H318 Repr. 2; H361 Aquatic Acute 1 ; H400 Aquatic Chronic 1; H410
Important adverse physicochemical, human health and environmental effects:	H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H361 Suspected of damaging fertility or the unborn child. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
2.2. Label elements	
According to regulation (EC) No 1272/2008:	 <p>WARNING</p> <p>H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H361 Suspected of damaging fertility or the unborn child. H400 Very toxic to aquatic life.</p>

	H410 Very toxic to aquatic life with long lasting effects. P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P264 Wash hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/ face protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/attention.
2.3. Other hazards	
	Product does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH (Regulation (EC) No 1907/2006).

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances	No relevant.
3.2. Mixtures	Mixture of acrylic monomers and other ingredients including a UV activated curing agent that after exposure to UV light will form a long-lasting polymeric coating.

Ingredient name (INCI)	CAS Numbers:	EINECS:	Conc. %	Classification Regulation (EC) 1272/2008 (CLP)	Type
ALIPHATIC URETHANE ACRYLATE	NA	NA	70-80	Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	[1]
PENTAERYTHRITYL TETRAMERCAPTOPROPIONATE (Pentaerythritol tetra(3-mercaptopropionate))	7575-23-7	231-472-8	20-30	Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	[1]
TRIMETHYLBENZOYL DIPHENYLPHOSPHINE OXIDE (diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide)	75980-60-8	278-355-8	1-5	Skin Sens. 1; H317 Repr. 2; H361 Aquatic Chronic 2; H411	[1]
ISOPROPYL THIOXANTHONE (2-Isopropyl Thioxanthone)	5495-84-1	NA	1-5	Not applicable.	
CYCLOTETRAILOXANE (Octamethylcyclotetrasiloxane)	556-67-2	209-136-7	1-2	Repr. 2; H361 Aquatic Chronic 4; H413	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

See section 16 for the full text of the R and H phrases declared above.

Occupational exposure limits, if available, are listed in section 8.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

4. FIRST AID MEASURES

4.1. Description of first aid measures	
General advice:	Remove contaminated clothing.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.
Skin contact:	Remove contaminated clothing and wash before reuse. Remove and destroy contaminated shoes. Flush with plenty of water. Obtain medical attention if irritation persists.

Eye contact:	Immediately wash the eyes with plenty of water for at least 15 min holding the eye open. Obtain medical attention urgently..
Ingestion:	Do not INDUCE VOMITING. Rinse mouth with water. Get medical attention IMMEDIATELY.
4.2. Most important symptoms and effects, both acute and delayed	
Inhalation:	May cause nose and throat irritation. May affect the brain or nervous system, causing dizziness, headache or nausea. Harmful if inhaled. Narcosis, loss of coordination, vomiting, difficulty with speech, reduced visibility, fatigue, cough, unconsciousness.
Skin contact:	Causes skin irritation. Swelling and redness of skin, dermatitis, drowsiness
Eye contact:	Cause eye irritation. conjunctivitis, lacrimation, redness and swelling of eyes,
Ingestion:	Harmful if swallowed, abdominal pain
Repeated overexposure	Lung damage, liver abnormalities, kidney damage, central nervous system damage, blood effects.
4.3. Indication of any immediate medical attention and special treatment needed	
Specific treatments:	Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media	
Suitable extinguishing media:	Carbon dioxide, foam, powder.
Unsuitable extinguishing media:	Water.
5.2. Special hazards arising from the substance or mixture	
	Water may be ineffective in fighting fire. If water is used to cool closed containers to prevent pressure build-up, fog nozzles are preferred. Full protective equipment, including self-contained breathing apparatus is needed to protect fire-fighters from exposure to coating's hazardous ingredients and hazardous decomposition products.
5.3. Advice for firefighters	
	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. During emergency conditions, overexposure to decomposition products may cause a health hazard; symptoms may not be immediately apparent. Obtain medical attention.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures	
	Avoid contact with skin and eyes. Wear protective equipment. Keep away from heat and sources of ignition. Provide adequate ventilation
6.2. Environmental precautions	
	Do not empty into drains / surface water / ground water. Prevent further leakage or spillage.
6.3. Methods and material for containment and cleaning up	
	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Dispose of in accordance with local regulations.
6.4. Reference to other sections	
	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

7. HANDLING AND STORAGE





The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1. Precautions for safe handling	
Protective measures:	Avoid inhalation, skin and eye contact.
Advice on general occupational hygiene:	Good industrial hygiene practices should be observed. Provide sufficient air exchange and/or exhaust in work rooms. Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. Take off all contaminated clothing immediately.

	See also Section 8 for additional information on hygiene measures.
7.2. Conditions for safe storage, including any incompatibilities	
Storage:	<p>Store in well-ventilated area. Keep containers (solvent resistant) closed when not in use. Store away from ignition sources. All equipment should be grounded. Avoid strong oxidizing agents, store in a clean, dry area.</p> <p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p> <p>Empty container may retain product residues (vapour or liquid).</p>
7.3. Specific end use(s)	
Industrial sector specific solutions:	Product is for professional use only.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters	
Occupational exposure limits	Limit values are laid down throughout the EU, but each Member State establishes its own national OELs, often going beyond EU legislation. OELs are set by competent national authorities and other relevant institutions.
Recommended monitoring Procedures:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.
8.2 Manufacturer: Exposure controls	
Appropriate engineering Controls:	Ensure good ventilation/extraction.
Individual protection measures:	
Hygiene measures:	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.</p> <p>Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.</p> <p>Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.</p>
Respiratory protection	 <p>Ensure adequate ventilation.</p> <p>An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area.</p> <p>Filter type: A</p>
Eye/face protection:	 <p>Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.</p>
Skin protection:	  <p>Chemical-resistant protective gloves (EN 374).</p> <p>Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): nitrile rubber (NBR; ≥ 0.4 mm thickness).</p> <p>Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): nitrile rubber (NBR; ≥ 0.4 mm thickness).</p> <p>This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the</p>

	many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced. Wear suitable protective clothing.
Environmental exposure controls:	
	According to available technology.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	
Physical state	liquid
Colour	transparent
Odour	light
Odour threshold	Not available.
pH at 25 °C	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	>93°C (200°F)
Flash point	>110 °C, closed cup (Pentaerythrityl Tetramercaptopropionate)
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.10 g/m3
Solubility(ies)	Slightly soluble in water. Soluble in solvent.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Evaporation Rate	Not available.
Explosive properties	Not available.
Oxidising properties	Not available
9.2. Other information	
Impurity	Not available

10. STABILITY AND REACTIVITY

10.1. Reactivity	
	No hazardous reactions if stored and handled as prescribed/indicated.
10.2. Chemical stability	
	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	
	Polymerization is possible under UV light.
10.4. Conditions to avoid	
	Sun-Light, UV-Light, un-clean conditions to avoid during storage.
10.5. Incompatible materials	
	Do not store with polymerization initiators including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron.
10.6. Hazardous decomposition products	
	Fumes produced when heated to decomposition may include: Toxic carbon monoxide, carbon dioxide.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product:	Not available.			
Ingredients:				
Acute toxicity:	Result	Species	Dose	Exposure
ALIPHATIC URETHANE ACRYLATE	LD50 Oral	Rat	LD50 >2000 mg/kg	
	LC50 inhalation	Rat	5 mg/L (dust/mist)	4h
	LD50 Dermal	Rabbit	LD50 >2000 mg/kg	
PENTAERYTHRITYL TETRAMERCAPTOPROPIONATE (Pentaerythritol tetra(3-mercaptopropionate))	LD50 Oral	Rat	1.000-2.000 mg/kg	24 h
	LC50 inhalation	Rat	No data available	
	LD50 Dermal	Rat	No data available	
TRIMETHYLBENZOYL DIPHENYLPHOSPHINE OXIDE	LD50 Oral	Rat	LD50=5000 mg/kg	
	LC50 inhalation	Rat	No data available	
	LD50 Dermal	Rabbit	LD50 >2000 mg/kg	
ISOPROPYL THIOXANTHONE (2-Isopropyl Thioxanthone)	No data available.			
CYCLOTETRAILOXANE (Octamethylcyclotetrasiloxane)	LD50 Oral	Rat	LD50=2.000 mg/kg	
	LC50 inhalation	Rat	36.000 mg/cm³	4h
	LD50 Dermal	Rabbit	LD50 >4.640 mg/kg	
Eye irritation:				
ALIPHATIC URETHANE ACRYLATE	Causes serious eye damage.			
PENTAERYTHRITYL TETRAMERCAPTOPROPIONATE (Pentaerythritol tetra(3-mercaptopropionate))	Rabbit - No eye irritation (OECD Test Guideline 405)			
TRIMETHYLBENZOYL DIPHENYLPHOSPHINE OXIDE	Rabbit – No eye irritation.			
ISOPROPYL THIOXANTHONE (2-Isopropyl Thioxanthone)	No data available.			
CYCLOTETRAILOXANE (Octamethylcyclotetrasiloxane)	Rabbit - No eye irritation, 24h (OECD Test Guideline 405)			
Skin irritation/ corrosion:				
ALIPHATIC URETHANE ACRYLATE	Not irritating. By analogy with a product of similar composition.			
PENTAERYTHRITYL TETRAMERCAPTOPROPIONATE (Pentaerythritol tetra(3-mercaptopropionate))	Rabbit - No skin irritation (OECD Test Guideline 404)			
TRIMETHYLBENZOYL DIPHENYLPHOSPHINE OXIDE	Rabbit – No skin irritation			
ISOPROPYL THIOXANTHONE (2-Isopropyl Thioxanthone)	No data available.			
CYCLOTETRAILOXANE (Octamethylcyclotetrasiloxane)	Rabbit - No skin irritation, 24h (OECD Test Guideline 404)			
Sensitisation:				
ALIPHATIC URETHANE ACRYLATE	Sensitizing.			
PENTAERYTHRITYL TETRAMERCAPTOPROPIONATE (Pentaerythritol tetra(3-mercaptopropionate))	No data available.			
TRIMETHYLBENZOYL DIPHENYLPHOSPHINE OXIDE	Mouse – May cause sensitisation by skin contact			
ISOPROPYL THIOXANTHONE (2-Isopropyl Thioxanthone)	No data available.			
CYCLOTETRAILOXANE (Octamethylcyclotetrasiloxane)	Guinea pig - Does not cause skin sensitisation. (OECD Test Guideline 406)			
Repeated dose toxicity:				

ALIPHATIC URETHANE ACRYLATE	No data available.		
PENTAERYTHRITYL TETRAMERCAPTOPROPIONATE (Pentaerythritol tetra(3-mercaptopropionate))	No data available.		
TRIMETHYLBENZOYL DIPHENYLPHOSPHINE OXIDE	NOAEL, oral	Rat	100 mg/kg bw/day
	LOAEL, oral	Rat	300 mg/kg bw/day
ISOPROPYL THIOXANTHONE (2-Isopropyl Thioxanthone)	No data available.		
CYCLOTETRASILOXANE (Octamethylcyclotetrasiloxane)	No data available.		
Carcinogenicity:	No known effect according to our database.		
Mutagenicity:	No known effect according to our database.		
Toxicity for reproduction:	No known effect according to our database.		
Potential acute health effects			
Eye contact:	Irritation, conjunctivitis.		
Inhalation:	Irritation, coughing, shortness of breath, narcotic effect.		
Skin contact:	Redness, inflammation. Rash, Urticaria.		
Ingestion:	Gastrointestinal symptoms, such as nausea, vomiting, abdominal pain, and diarrhea could develop.		
Symptoms related to the physical, chemical and toxicological characteristics			
Eye contact:	No specific data.		
Inhalation:	No specific data.		
Skin contact:	No specific data.		
Ingestion:	No specific data.		
Delayed and immediate effects and also chronic effects from short and long term exposure			
Short term exposure:			
Potential immediate effects:	Not available.		
Potential delayed effects:	Not available.		
Long term exposure:			
Potential immediate effects:	Not available.		
Potential delayed effects:	Not available.		
Potential chronic health effects:			
Not available.			
Conclusion/Summary			
General	No known significant effects or critical hazards.		
Carcinogenicity	No known significant effects or critical hazards.		
Mutagenicity	No known significant effects or critical hazards.		
Teratogenicity	No known significant effects or critical hazards.		
Developmental effects	No known significant effects or critical hazards.		
Fertility effects	No known significant effects or critical hazards.		
11.2. Other information			
	Not available.		

12. ECOLOGICAL INFORMATION

12.1. Toxicity						
Aquatic toxicity						
ALIPHATIC URETHANE ACRYLATE	Toxic to aquatic life. Harmful to aquatic life with long lasting effects.					
PENTAERYTHRITYL TETRAMERCAPTOPROPIONATE (Pentaerythritol tetra(3-mercaptopropionate))	Oncorhynchus mykiss	Rainbow trout	96 h	LC50	0.42 mg/L.	
	Desmodesmus subspicatus	Green algae	72 h	EC50	0.12 mg/L	
TRIMETHYLBENZOYL DIPHENYLPHOSPHINE OXIDE	Danio rerio (Zebrafish)	freshwater	96 h	LC50	10 mg/l	
ISOPROPYL THIOXANTHONE (2-Isopropyl Thioxanthone)	No data available.					
CYCLOTETRAILOXANE (Octamethylcyclotetrasiloxane)	Leuciscus idus	Golden orfe	96 h	LC50	200.0 mg/L	
	Selenastrum capricornutum	Green algae	96 h	EC50	0.022 mg/L	

12.2. Persistence and degradability	
	Readily biodegradable.
12.3. Bioaccumulative potential	
	Low.
12.4. Mobility in soil	
	Not available
12.5. Results of PBT and vPvB assessment	
	Regarding all available data on biotic and abiotic degradation, bioaccumulation and toxicity it can be stated that the substance does not fulfil the PBT criteria (not PBT) and not the vPvB criteria (not vPvB).
12.6. Other adverse effects	
	No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1. Waste treatment methods	
Product:	
Methods of disposal:	Waste must be disposed of in accordance with federal, state and local environmental control regulations. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Hazardous waste:	Within the present knowledge of the supplier, this product is regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
European waste catalogue (EWC):	200127* paint, inks, adhesives and resins containing dangerous substances
Packaging:	
Methods of disposal:	The generation of waste should be avoided or minimized wherever possible. Packaging: IBC container, plastic drum. Waste packaging should be recycled.
Special precautions:	This material and its container must be disposed of in a safe way.

14. TRANSPORT INFORMATION

This **preparation is not classified** as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

International transport regulations:

	ADR/RID	ADN	IMDG	IATA
14.1. UN number	-	-	-	-
14.2. UN proper shipping name	-			
14.3. Transport hazard class(es)	-	-	-	-
14.4. Packing group	-	-	-	-
14.5. Environmental hazards	-	-	-	-
14.6. Special precautions for user	-			
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.			

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
EU Regulation (EC) No. 1907/2006 (REACH):	
Annex XIV - List of substances subject to authorization:	Substances of very high concern: None of the components are listed.
Annex XVII - Restrictions on the manufacture,	Not applicable.

placing on the market and use of certain dangerous substances, mixtures and articles:	
15.2. Chemical safety assessment	
Chemical Safety Assessment following regulation 1907/2006/EC:	A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

Abbreviations and acronyms:	
Full text of abbreviations	<p>CLP: Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]</p> <p>ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p>RID: International Rule for Transport of Dangerous Substances by Railway</p> <p>IMDG: International Maritime Code for Dangerous Goods</p> <p>IATA: International Air Transport Association</p> <p>CAS: Chemical Abstracts Service</p> <p>EINECS: European Inventory of Existing Commercial chemical Substances</p> <p>LC50: Median lethal concentration</p> <p>LD50: Median lethal dose</p> <p>REACH: Registration, Evaluation and Authorisation of Chemicals</p> <p>PBT: Persistent, bio-accumulative and toxic</p> <p>vPvB: Very persistent, very bio-accumulative</p>
Full text of classifications and H statements [CLP/GHS]:	<p>H302 Harmful if swallowed.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H361 Suspected of damaging fertility or the unborn child.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p>
Classification system	<p>Classification for health effects: conventional (calculation) method is used.</p> <p>Acute Tox. 4; H302</p> <p>Skin Sens. 1; H317</p> <p>Eye Dam. 1; H318</p> <p>Repr. 2; H361</p> <p>Classification for physico-chemical effects:</p> <p>No applicable.</p> <p>Classification for environmental effects: conventional (calculation) method is used.</p> <p>Aquatic Acute 1 ; H400</p> <p>Aquatic Chronic 1; H410</p>
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.
Used literature:	
	European Chemical Agency's homepage (http://echa.europa.eu/). Safety data sheets of individual components.
DISCLAIMER OF LIABILITY:	
	The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or method of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.

END OF SAFETY DATA SHEET