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## 1. IDENTIFICATION

### Product identifier

Product code **ADE78**  
Product name **High Intensity White**  
Product category **ADE Series SV Epoxy Screen Ink**

### Other means of identification

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended use Industrial Printing Operations

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

UNITED STATES	UNITED KINGDOM
Nazdar Company	Nazdar Limited
8501 Hedge Lane Terrace	Barton Road
Shawnee, KS 66227	Heaton Mersey
Tel: +001-913-422-1888	Stockport, England SK4 3EG
Tel: +001-800-677-4657	Tel: +44 161 442 2111
Fax: +001-913-422-2294	
www.nazdar.com	

### Emergency telephone number

USA: Chemtrec: +001-800-424-9300  
Outside USA: Chemtrec: +001-703-527-3887  
24 Hour Emergency Phone Number

## 2. HAZARDS IDENTIFICATION

### Classification

Skin sensitization	Category 1 - (H317)
Flammable liquids	Category 3 - (H226)

### Label elements



### Signal word

Warning

### Hazard statements

H226 - Flammable liquid and vapor  
H317 - May cause an allergic skin reaction

### Precautionary Statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P403 + P235 - Store in a well-ventilated place. Keep cool

**Hazards not otherwise classified (HNOC)**

Causes mild skin irritation.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Mixture**

Chemical name	CAS No.	Weight-%	Trade secret	Note
Titanium Dioxide	13463-67-7	30 - 60	*	
Resin	Not Available	30 - 60	*	
Dipropylene glycol monomethyl ether	34590-94-8	10 - 30	*	
Diacetone alcohol	123-42-2	5 - 10	*	
Propylene glycol monomethyl ether	107-98-2	1 - 5	*	
2-Butoxyethanol	111-76-2	1 - 5	*	
Silicon dioxide, amorphous	7631-86-9	1 - 5	*	
Additive	Not Available	0.1 - < 1	*	

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST-AID MEASURES

**Description of first aid measures**

**General Advice**

Show this safety data sheet to the doctor in attendance.

**Eye Contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.

**Skin Contact**

Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.

**Inhalation**

Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.

**Ingestion**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

**Most important symptoms and effects, both acute and delayed**

None under normal use conditions.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician**

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

No information available.

**Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

### Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use. Keep out of the reach of children.

**Incompatible Products** Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure limits

Chemical name	ACGIH TLV
Titanium Dioxide 13463-67-7	TWA: 0.2 mg/m <sup>3</sup> nanoscale respirable particulate matter TWA: 2.5 mg/m <sup>3</sup> finescale respirable particulate matter
Dipropylene glycol monomethyl ether 34590-94-8	TWA: 50 ppm
Diacetone alcohol 123-42-2	TWA: 50 ppm
Propylene glycol monomethyl ether 107-98-2	TWA: 50 ppm STEL: 100 ppm
2-Butoxyethanol 111-76-2	TWA: 20 ppm

Chemical name	OSHA PEL
Titanium Dioxide 13463-67-7	TWA: 15 mg/m <sup>3</sup> total dust
Dipropylene glycol monomethyl ether 34590-94-8	TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> Skin
Diacetone alcohol 123-42-2	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup>
2-Butoxyethanol 111-76-2	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup>

	Skin
<b>Chemical name</b>	<b>OSHA PEL (vacated)</b>
Titanium Dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup> total dust
Dipropylene glycol monomethyl ether 34590-94-8	TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> STEL: 150 ppm STEL: 900 mg/m <sup>3</sup> Skin
Diacetone alcohol 123-42-2	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup>
Propylene glycol monomethyl ether 107-98-2	TWA: 100 ppm TWA: 360 mg/m <sup>3</sup> STEL: 150 ppm STEL: 540 mg/m <sup>3</sup>
2-Butoxyethanol 111-76-2	TWA: 25 ppm TWA: 120 mg/m <sup>3</sup> Skin
Silicon dioxide, amorphous 7631-86-9	TWA: 6 mg/m <sup>3</sup>

<b>Chemical name</b>	<b>Ontario TWA EV</b>
Titanium Dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>
Dipropylene glycol monomethyl ether 34590-94-8	TWA: 100 ppm STEL: 150 ppm Skin
Diacetone alcohol 123-42-2	TWA: 50 ppm
Propylene glycol monomethyl ether 107-98-2	TWA: 50 ppm STEL: 100 ppm
2-Butoxyethanol 111-76-2	TWA: 20 ppm

<b>Chemical name</b>	<b>Mexico OEL (TWA)</b>
Titanium Dioxide 13463-67-7	TWA/VLE-PPT: 10 mg/m <sup>3</sup>
Dipropylene glycol monomethyl ether 34590-94-8	TWA/VLE-PPT: 100 ppm STEL/PPT-CT: 150 ppm
Diacetone alcohol 123-42-2	TWA/VLE-PPT: 50 ppm
Propylene glycol monomethyl ether 107-98-2	TWA/VLE-PPT: 100 ppm STEL/PPT-CT: 150 ppm
2-Butoxyethanol 111-76-2	TWA/VLE-PPT: 20 ppm

**Appropriate engineering controls**

**Engineering Measures**

Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

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

**Eye/Face Protection**

Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear suitable face shield. Ensure that eyewash stations and safety showers are close to the workstation location.

**Skin Protection**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Hand Protection**

Chemical resistant protective gloves.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time): eg. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other  
 Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.  
 Due to different glove types, the manufacturer's directions for use should be observed. Replace gloves immediately when torn or any change in appearance is noticed such as dimension, color, flexibility.

**Respiratory Protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Appearance</b>	Colored
<b>Odor</b>	Characteristic	<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>		No data available
<b>Melting Point / Freezing Point</b>	No information available	No data available
<b>Boiling Point / Boiling Range</b>	> 149 °C / 300 °F	
<b>Flash Point</b>	52 °C / 125 °F	Setaflash closed cup
<b>Evaporation rate</b>		No data available
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit</b>		No data available
<b>Lower flammability limit</b>		No data available
<b>Vapor Pressure</b>		No data available
<b>Vapor Density</b>		No data available
<b>Specific Gravity</b>	1.54	
<b>Water Solubility</b>		No data available
<b>Solubility in other solvents</b>		No data available
<b>Partition coefficient: n-octanol/water</b>		No data available
<b>Autoignition Temperature</b>	No information available	No data available
<b>Hyphen</b>		No data available
<b>Kinematic viscosity</b>		No data available
<b>Dynamic viscosity</b>		No data available

<b>Explosive Properties</b>	No data available
<b>Oxidizing Properties</b>	No data available

Other information

<b>Photochemically Reactive</b>	No
<b>Weight Per Gallon (lbs/gal)</b>	12.84

VOC by weight % (less water)	VOC by volume % (less water)	VOC lbs/gal (less water)	VOC grams/liter (less water)
24.3	35.74	3.12	374.42

## 10. STABILITY AND REACTIVITY

### Reactivity

No information available.

### Chemical stability

Stable under normal conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

### Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Inhalation**

Specific test data for the substance or mixture is not available.

#### **Eye Contact**

Specific test data for the substance or mixture is not available.

#### **Skin Contact**

Specific test data for the substance or mixture is not available.

#### **Ingestion**

Specific test data for the substance or mixture is not available.

Chemical name	Oral LD50
Titanium Dioxide 13463-67-7	> 10000 mg/kg ( Rat )
Dipropylene glycol monomethyl ether 34590-94-8	= 5.35 g/kg ( Rat )
Diacetone alcohol 123-42-2	> 4 g/kg ( Rat )
Propylene glycol monomethyl ether 107-98-2	= 5000 mg/kg ( Rat )
2-Butoxyethanol 111-76-2	= 470 mg/kg ( Rat )
Silicon dioxide, amorphous 7631-86-9	= 7900 mg/kg ( Rat )
Additive	> 3200 mg/kg ( Rat )

Chemical name	Dermal LD50
Dipropylene glycol monomethyl ether 34590-94-8	= 9500 mg/kg ( Rabbit )
Diacetone alcohol 123-42-2	= 13630 mg/kg ( Rabbit )
Propylene glycol monomethyl ether 107-98-2	= 13 g/kg ( Rabbit )
2-Butoxyethanol 111-76-2	= 435 mg/kg ( Rabbit )
Silicon dioxide, amorphous 7631-86-9	> 5000 mg/kg ( Rabbit )
Additive	> 2000 mg/kg ( Rabbit )

Chemical name	Inhalation LC50
Titanium Dioxide 13463-67-7	= 5.09 mg/L ( Rat ) 4 h

Diacetone alcohol 123-42-2	> 7.23 g/m <sup>3</sup> ( Rat ) 8 h
Propylene glycol monomethyl ether 107-98-2	> 7559 ppm ( Rat ) 6 h
2-Butoxyethanol 111-76-2	= 450 ppm ( Rat ) 4 h = 486 ppm ( Rat ) 4 h
Silicon dioxide, amorphous 7631-86-9	> 58.8 mg/L ( Rat ) 4 h
Additive	> 5.3 mg/L ( Rat ) 6 h

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Specific test data for the substance or mixture is not available.

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

**Skin corrosion/irritation** Specific test data for the substance or mixture is not available.  
**Eye damage/irritation** Specific test data for the substance or mixture is not available.  
**Irritation** Specific test data for the substance or mixture is not available.  
**Corrosivity** Specific test data for the substance or mixture is not available.  
**Sensitization** Specific test data for the substance or mixture is not available. May cause an allergic skin reaction. (based on components).  
**Mutagenic Effects** Specific test data for the substance or mixture is not available.  
**Carcinogenic effects** Specific test data for the substance or mixture is not available.  
**Reproductive Effects** Specific test data for the substance or mixture is not available.  
**STOT - single exposure** Specific test data for the substance or mixture is not available.  
**STOT - repeated exposure** Specific test data for the substance or mixture is not available.  
**Chronic Toxicity** Specific test data for the substance or mixture is not available.  
**Aspiration hazard** Specific test data for the substance or mixture is not available.  
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH
Titanium Dioxide 13463-67-7	A3
2-Butoxyethanol 111-76-2	A3

Chemical name	IARC
Titanium Dioxide 13463-67-7	Group 2B

Chemical name	OSHA
Titanium Dioxide 13463-67-7	X

**Numerical measures of toxicity - Product Information**

**Unknown acute toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 18,431.40 mg/kg  
**ATEmix (dermal)** 99,999.00 mg/kg  
**ATEmix (inhalation-gas)** 99,999.00  
**ATEmix (inhalation-dust/mist)** 19.60 mg/l  
**ATEmix (inhalation-vapor)** 117.60 mg/l

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Specific test data for the substance or mixture is not available.

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants
Silicon dioxide, amorphous 7631-86-9	72h EC50 Pseudokirchneriella subcapitata: = 440 mg/L

Chemical name	Fish
Dipropylene glycol monomethyl ether 34590-94-8	96h LC50 Pimephales promelas: > 10000 mg/L (static)
Diacetone alcohol 123-42-2	96h LC50 Lepomis macrochirus: = 420 mg/L (static) 96h LC50 Lepomis macrochirus: = 420 mg/L
Propylene glycol monomethyl ether 107-98-2	96h LC50 Pimephales promelas: = 20.8 g/L (static)
2-Butoxyethanol 111-76-2	96h LC50 Lepomis macrochirus: = 1490 mg/L (static) 96h LC50 Lepomis macrochirus: = 2950 mg/L
Silicon dioxide, amorphous 7631-86-9	96h LC50 Brachydanio rerio: = 5000 mg/L (static)
Additive	96h LC50 Pimephales promelas: > 1.55 mg/L (static)

Chemical name	Crustacea
Dipropylene glycol monomethyl ether 34590-94-8	48h LC50 Daphnia magna: = 1919 mg/L
Propylene glycol monomethyl ether 107-98-2	48h EC50 Daphnia magna: = 23300 mg/L
2-Butoxyethanol 111-76-2	48h EC50 Daphnia magna: > 1000 mg/L
Silicon dioxide, amorphous 7631-86-9	48h EC50 Ceriodaphnia dubia: = 7600 mg/L
Additive	48h EC50 Daphnia magna: > 1.46 mg/L

**Persistence and Degradability**

No information available.

**Bioaccumulation**

Chemical name	Partition coefficient
Dipropylene glycol monomethyl ether 34590-94-8	-0.064
Diacetone alcohol 123-42-2	1.03
Propylene glycol monomethyl ether 107-98-2	-0.437
2-Butoxyethanol 111-76-2	0.81

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods****Waste Disposal Methods**

Contain and dispose of waste according to local regulations.

**Contaminated Packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. TRANSPORT INFORMATION



**Note:** This information is not intended to convey all specific transportation requirements relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation information can be found in the specific regulations for your mode of transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

**DOT** In the U.S. and Canada, this material may be reclassified as a combustible liquid and is not regulated, via surface transportation, in containers less than 119 gallons or 450 liters [per 49 CFR 173.150 (f)] [per Transportation of Dangerous Goods Regulations/Clear Language Part 1.33].

**UN/ID no** UN1210  
**Proper Shipping Name** Printing Ink  
**Transport hazard class(es)** 3  
**Packing Group** III

**ICAO / IATA / IMDG / IMO**

**UN/ID no** UN1210  
**Proper Shipping Name** Printing Ink  
**Transport hazard class(es)** 3  
**Packing Group** III

**15. REGULATORY INFORMATION**

**International Inventories**

All substances are listed as ACTIVE on the TSCA Inventory. For further information, please contact: Supplier (manufacturer/importer/downstream user/distributor).

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	CAS No.	Weight-%	SARA 313 - Threshold Values %
2-Butoxyethanol	111-76-2	1 - 5	1.0

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

**US State Regulations**

Chemical name	Massachusetts
Titanium Dioxide 13463-67-7	X
Dipropylene glycol monomethyl ether 34590-94-8	X
Diacetone alcohol 123-42-2	X
Propylene glycol monomethyl ether 107-98-2	X
2-Butoxyethanol 111-76-2	X
Silicon dioxide, amorphous 7631-86-9	X

Chemical name	Minnesota Right To Know

Titanium Dioxide 13463-67-7	X
Dipropylene glycol monomethyl ether 34590-94-8	X
Diacetone alcohol 123-42-2	X
Propylene glycol monomethyl ether 107-98-2	X
2-Butoxyethanol 111-76-2	X
Silicon dioxide, amorphous 7631-86-9	X

Chemical name	New Jersey
Titanium Dioxide 13463-67-7	X
Dipropylene glycol monomethyl ether 34590-94-8	X
Diacetone alcohol 123-42-2	X
Propylene glycol monomethyl ether 107-98-2	X
2-Butoxyethanol 111-76-2	X

Chemical name	Pennsylvania
Titanium Dioxide 13463-67-7	X
Dipropylene glycol monomethyl ether 34590-94-8	X
Diacetone alcohol 123-42-2	X
Propylene glycol monomethyl ether 107-98-2	X
2-Butoxyethanol 111-76-2	X
Silicon dioxide, amorphous 7631-86-9	X

**California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm

Chemical name	California Proposition 65
Titanium Dioxide	Carcinogen

**Canada**

Chemical name	NPRI - National Pollutant Release Inventory
Dipropylene glycol monomethyl ether 34590-94-8	Part 5 Substance - Volatile Organic Compounds with Additional Reporting Requirements Part 4 Substance - Criteria Air Contaminants
Diacetone alcohol 123-42-2	Part 4 Substance - Criteria Air Contaminants
Propylene glycol monomethyl ether 107-98-2	Part 5 Substance - Volatile Organic Compounds with Additional Reporting Requirements Part 4 Substance - Criteria Air Contaminants
2-Butoxyethanol 111-76-2	Part 1, Group A Substance Part 5 Substance - Volatile Organic Compounds with Additional Reporting Requirements Part 4 Substance - Criteria Air Contaminants

**16. OTHER INFORMATION**

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA TWA (time-weighted average)  
STEL STEL (Short Term Exposure Limit)  
Ceiling Maximum limit value

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

A1 - Known Human Carcinogen  
A2 - Suspected Human Carcinogen  
A3 - Animal Carcinogen

**IARC: (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans  
Group 2A - Probably Carcinogenic to Humans  
Group 2B - Possibly Carcinogenic to Humans  
Group 3 - Not Classifiable as to Carcinogenicity in Humans

**NTP: (National Toxicity Program)**

Known - Known Carcinogen  
Reasonably Anticipated to be a Human Carcinogen

**OSHA: (Occupational Safety & Health Administration)**

X - Present

**Revision Date** Nov-13-2023

**Pursuant to NOM-018-STPS-2015**

This information within is considered correct but is not exhaustive and will be used for guidance only, which is based on the current knowledge of the substance or mixture and is applicable to the appropriate safety precautions for the product.

**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 and 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**