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# SAFETY DATA SHEET

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier**

Product code **10032974S2**  
Product name **Special S2 Cool Grey 4**  
Product category **System 2 (S2) Series Gloss Vinyl Screen Ink**

**Other means of identification**

Synonyms None

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

Recommended use 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 Corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Chronic aquatic toxicity	Category 3 - (H412)
Flammable liquids	Category 3 - (H226)

**Label elements**



Signal Word  
Danger

**Hazard Statements**

H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H412 - Harmful to aquatic life with long lasting effects  
H226 - Flammable liquid and vapor

**Precautionary Statements**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P332 + P313 - If skin irritation 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

P273 - Avoid release to the environment

P233 - Keep container tightly closed

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

**Hazards not otherwise classified (HNOC)**

Harmful to aquatic life.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Mixture**

Component	CAS-No	Weight %	Trade Secret	Note
Titanium dioxide	13463-67-7	30 - 60	*	
Ethylene glycol monopropyl ether	2807-30-9	10 - 30	*	
Cyclohexanone	108-94-1	10 - 30	*	
Ethylene glycol monobutyl ether acetate	112-07-2	1 - 5	*	
Diethylene Glycol Ethyl Ether Acetate	112-15-2	1 - 5	*	

\*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**

Component	ACGIH TLV
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>
Cyclohexanone 108-94-1	TWA: 20 ppm Skin STEL: 50 ppm
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm

Component	OSHA PEL
Titanium dioxide 13463-67-7	TWA: 15 mg/m <sup>3</sup> total dust
Cyclohexanone 108-94-1	TWA: 50 ppm TWA: 200 mg/m <sup>3</sup>

Component	OSHA PEL (vacated)
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup> total dust
Cyclohexanone 108-94-1	TWA: 25 ppm TWA: 100 mg/m <sup>3</sup> Skin

2807-30-9 Ethylene glycol monobutyl ether acetate 112-07-2	= 1500 mg/kg ( Rabbit )
<b>Component</b>	<b>Inhalation LC50</b>
Ethylene glycol monopropyl ether 2807-30-9	= 1530 ppm ( Rat ) 7 h
Cyclohexanone 108-94-1	= 8000 ppm ( Rat ) 4 h
Ethylene glycol monobutyl ether acetate 112-07-2	> 400 ppm ( Rat ) 4 h

**Information on toxicological effects**

**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. Causes skin irritation (pain, redness and swelling). (based on components).  
**Eye damage/irritation** Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components).  
**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.  
**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.

Component	ACGIH
Cyclohexanone 108-94-1	A3
Ethylene glycol monobutyl ether acetate 112-07-2	A3

Component	IARC
Titanium dioxide 13463-67-7	Group 2B

Component	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) 4,899.00  
 ATEmix (dermal) 3,180.00  
 ATEmix (inhalation-dust/mist) 7.70  
 ATEmix (inhalation-vapor) 226.00

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Specific test data for the substance or mixture is not available. Harmful to aquatic life with long lasting effects. (based on



(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.

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Ethylene glycol monopropyl ether	2807-30-9	10 - 30	1.0
Ethylene glycol monobutyl ether acetate	112-07-2	1 - 5	1.0
Diethylene Glycol Ethyl Ether Acetate	112-15-2	1 - 5	1.0

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

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Component	CAS-No	Weight %
Ethylene glycol monopropyl ether	2807-30-9	10 - 30
Ethylene glycol monobutyl ether acetate	112-07-2	1 - 5
Diethylene Glycol Ethyl Ether Acetate	112-15-2	1 - 5

**U.S. State Regulations**

Component	Massachusetts Right To Know
Titanium dioxide 13463-67-7	X
Cyclohexanone 108-94-1	X

Component	Minnesota Right To Know
Titanium dioxide 13463-67-7	X
Cyclohexanone 108-94-1	X

Component	New Jersey Right To Know
Titanium dioxide 13463-67-7	X
Ethylene glycol monopropyl ether 2807-30-9	X
Cyclohexanone 108-94-1	X
Ethylene glycol monobutyl ether acetate 112-07-2	X
Diethylene Glycol Ethyl Ether Acetate 112-15-2	X

Component	Pennsylvania Right To Know
Titanium dioxide 13463-67-7	X
Ethylene glycol monopropyl ether 2807-30-9	X
Cyclohexanone 108-94-1	X
Ethylene glycol monobutyl ether acetate 112-07-2	X
Diethylene Glycol Ethyl Ether Acetate 112-15-2	X