

# MATERIAL SAFETY DATA SHEET



**Nexterion® Hyb**

Author:	SCHOTT Technical Glass Solutions GmbH, Germany
Document:	LS6-HCF-S-003
Version:	1.2
Seite:	1/11
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## 1 General Information

### Manufacturer

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07745 Jena  
Germany

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E-Mail: [coatedsubstrate@schott.com](mailto:coatedsubstrate@schott.com)  
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### Distributor for US, Canada, Mexico

Microarray Solutions  
SCHOTT North America Inc.  
5530 Shepherdsville Road  
Louisville, KY 40228  
USA

Phone: +1-502-6957-4417  
Fax: +1-502-966-4976  
E-Mail: [coatedsubstrate@us.schott.com](mailto:coatedsubstrate@us.schott.com)  
[www.us.schott.com/nexterion](http://www.us.schott.com/nexterion)

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## 2 Composition / information on ingredients

CAS #	Component	Percent
151-21-3	sodium dodecyl sulfate	< 5%
proprietary	non-hazardous aqueous solution	> 89%
7558-79-4	sodium phosphate dibasic	< 5%
60-00-4	EDTA	< 1%

This product has been evaluated under the criteria specified in 29 CFR 1910.1200 (Hazard Communication). Other components of these products are considered non-hazardous under the criteria specified in 29 CFR 1910.1200.

## 3 Hazards identification

Appearance: Product is an aqueous, clear, odor-less and non-flammable liquid. Prolonged or repeated contact with this product may cause slight irritation to the skin, eyes, gastrointestinal and respiratory system.

Potential Health Effects:

Eye: May cause eye irritation.

Skin: may cause skin irritation.

Ingestion: May cause irritation to gastrointestinal tract when swallowed.

Inhalation: Inhalation of vapors or mist of the product may cause irritation to the respiratory system.

## 4 First Aid Measurements

Eyes: Flush eyes with plenty of water for at least 15 minutes, get medical aid at once.

Skin: Immediately flush skin with plenty of water. Remove contaminated clothing. get medical aid.

If inhaled: remove to fresh air. If not breathing, give artificial respiration. Get medical aid.

If swallowed: wash mouth out with water provided person is conscious. Get medical attention.

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## 5 Fire-fighting measures

General information: Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust.  
Extinguishing Media: Use dry chemical, carbon dioxide, water spray or foam.

## 6 Accidental Release Measures

Absorb the liquid and scrub the area with detergent and water.

Waste disposal method: Dispose in accordance with local, state and federal regulations.  
Hazard label information: Avoid contact with skin and eyes. Use with adequate ventilation.  
Wash thoroughly after handling.  
Use proper protective equipment as indicated in Section 8

EDTA:

US regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coats Guard National Response Center is (800) 424-8802.

sodium phosphate dibasic:

US regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coats Guard National Response Center is (800) 424-8802.

## 7 Handling and Storage

Handling: wash thoroughly after handling: avoid breathing dust, vapor, mist, or gas.  
Storage: Store capped at room temperature. Protect from heat and incompatibles.

## 8 Exposure controls/personal protection

**Engineering Controls:** Mechanical exhaust required. Safety shower and eye bath required.  
Airborne exposure Limits: Sodium phosphate dibasic, EDTA, SDS and aqueous solution: not listed under ACGIH, NIOSH and OSHA.

**Personal Protective Equipment:**

Eyes: Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

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Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure (lab coat).

Respirators: Not required for normal use. Firefighting: any self-contained apparatus with full face-piece operated in pressure-demand mode.

## 9 Physical and chemical properties

Form:	liquid
Color:	colorless
Odor:	none
Vapor pressure:	not determined
Boiling point:	not determined
Freezing point:	not determined
Density:	1 g/cm <sup>3</sup>
pH:	7.2
Vapor density:	not determined
Solubility (H <sub>2</sub> O)	not applicable
Molecular weight:	mixture

## 10 Chemical stability and reactivity

General information:

Chemical stability: stable under normal conditions.

Conditions to avoid: none reported

Incompatibilities with other materials: none reported

Hazardous decomposition products: sodium oxide, oxides of phosphorous.

hazardous Polymerization: will not occur

Component Information:

SDS:

Chemical stability: stable under normal conditions.

Conditions to avoid: heat, incompatibles

Incompatibilities with other materials: strong oxidizing agents, acids

Hazardous decomposition products: oxides of sulfur, sodium and carbon

Hazardous Polymerization: will not occur

sodium phosphate dibasic:

Chemical stability: stable under normal conditions.

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Conditions to avoid: incompatibles

Incompatibilities with other materials: acids, alkaloids, lead acetate, antipyrine, chloral hydrate, resorcinol and pyrogallol

Hazardous decomposition products: oxides of sodium and phosphorus

Hazardous Polymerization: will not occur

EDTA:

Chemical stability: stable under normal conditions.

Conditions to avoid: incompatibles

Incompatibilities with other materials: oxidizing agents

Hazardous decomposition products: carbon monoxide, carbon dioxide, nitrogen oxides

Hazardous Polymerization: will not occur

## 11 Toxicological information

General Information:

RTECS #: unlisted

LD50/LC50: not available

Carcinogenicity: not listed by ACGIH, IARC, NIOSH, NTP, OSHA

Epidemiology: no data available

Teratogenicity: no data available

Reproductive effects: no data available

Neurotoxicity: no data available

Mutagenicity: no data available

Other toxicological information: none

Component Information:

SDS:

Oral Rat LD50: 1288 mg/kg; Inhalation rat LC50: >3900 mg/kg;

Irritation data: skin human, standard Draize, 25 mg/24-hour, mild  
eye rabbit, standard Draize, 250 µg, mild

Investigated as a mutagen, reproductive effector. Has caused mutagenic and teratogenic effects in laboratory animals.

Cancer List

Ingredient		NTP Carcinogen	
		known	anticipated
Sodium Dodecyl Sulfate (151-21-3)	No	No	IARC category None

sodium phosphate dibasic:

Oral Rat LD50: 17 g/kg

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Irritation data: skin rabbit, standard Draize, 500 mg/24-hour, mild  
eye rabbit, standard Draize, 500 mg/24-hour, mild

### Cancer List

Ingredient	known	NTP Carcinogen	
		anticipated	IARC category
Sodium Phosphate dibasic (7558-79-4)	No	No	None

### EDTA:

Investigated as a mutagen, reproductive effector.

### Cancer List

Ingredient	known	NTP Carcinogen	
		anticipated	IARC category
Ethylenediamine Tetraacetic Acid (60-004)	No	No	None

## 12 Ecological information

### General information:

No information available.

### Component information:

### SDS:

No information available.

### sodium phosphate dibasic:

No information available.

### EDTA:

When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released into the water, it is not expected to evaporate significantly. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by photolysis.

### Environmental toxicity:

This material is not expected to be toxic to aquatic life. The LC50/96-hour values for fish are over 100 mg/l.

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## 13 Disposal Considerations

General product information: No further information.

Component waste number: No EPA Waste Numbers applicable for components.

Disposal instructions: Waste must be discarded in accordance with all federal, state, provincial, and local regulations.

## 14 Transport information

US DOT: Not subject to transport regulations.

Canada TDG: Not subject to transport regulations.

Shipping name: Not regulated as a hazardous material.

## 15 Regulatory information

General information: No information

Component information:

Chemical inventory status								
Ingredient	TSCA	EC	Japan	Australia	Korea	Canada		Phil.
						DSL	NDSL	
SDS CAS 151-21-3	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
sodium phosphate CAS 7558-79-4	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
EDTA CAS 60-00-4	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes

Federal, State and International Regulations							
Ingredient	SARA 302		SARA 313		CERCLA	RCRA 261.33	TSCA 8 (d)
	RQ	TPQ	List	Chemical Catg.			
sodium dodecyl sulfate CAS 151-21-3	No	No	No	No	No	No	No
sodium phosphate dibasic CAS 7558-79-4	No	No	No	No	5000	No	No
EDTA CAS 60-00-4	No	No	No	No	5000	No	No

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SDS:

Chemical weapons convention: No

TSCA 12 (b): No

CDTA: No

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No

Reactivity: No

Australien Hazchem Code: None allocated

Poison Schedule: None allocated

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

sodium phosphate dibasic:

Chemical weapons convention: No

TSCA 12 (b): No

CDTA: No

SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No

Reactivity: No

Australien Hazchem Code: None allocated

Poison Schedule: None allocated

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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Chemical weapons convention: No

TSCA 12 (b): No

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SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No

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## 16 Other Information

General information: No information

Component information:

### Chemical inventory status

Ingredient	TSCA	EC	Japan	Australia	Korea	Canada		Phil.
						DSL	NDSL	
SDS CAS 151-21-3	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
sodium phosphate CAS 7558-79-4	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
EDTA CAS 60-00-4	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes

### Federal, State and International Regulations

Ingredient	SARA 302		SARA 313		CERCLA	RCRA	TSCA
	RQ	TPQ	List	Chemical Catg.			
sodium dodecyl sulfate CAS 151-21-3	No	No	No	No	No	No	No
sodium phosphate dibasic CAS 7558-79-4	No	No	No	No	5000	No	No
EDTA CAS 60-00-4	No	No	No	No	5000	No	No

SDS:

Chemical weapons convention: No

TSCA 12 (b): No

CDTA: No

SARA 311/312: Acute: Yes Chronic: Yes

Fire: No

Pressure: No

Reactivity: No

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sodium phosphate dibasic:

Chemical weapons convention: No

TSCA 12 (b): No

CDTA: No

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SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No  
Reactivity: No

Australien Hazchem Code: None allocated

Poison Schedule: None allocated

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

EDTA:

Chemical weapons convention: No

TSCA 12 (b): No

CDTA: No

SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No  
Reactivity: No

Australien Hazchem Code: None allocated

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