

Safety Data Sheet (SDS) Report

SDS Number: 240722008SHF02

Applicant: NANHAI DISPLAY LIMITED
Rooms 1318-19, Hollywood Plaza,
610 Nathan Road, Mongkok, Kowloon, HK

Issue Date: 2024-08-05

Sample Description:

The sample information was submitted and identified on client's behalf to be:

Product Name	:	Nano Cloaking Film
Physical State	:	Solid
Data Received	:	Jul 22, 2024
Data Reviewed	:	Aug 05, 2024

Service Requested:

Based on the information provided by the applicant, the Safety Data Sheet (SDS) was generated in accordance with WHS and ADG requirements, for details please refer to attached pages.

Authorized By:

On Behalf Of Regulatory Affairs in Intertek Testing Services Ltd., Shanghai



Anna Wang
Technical Manager

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Nano Cloaking Film

Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

Issue date: 2024.08.05 Revision date: 2024.08.05 Version No: 1.0 SDS Number: 240722008SHF02

SECTION 1: Product identifier

1.1. GHS Product identifier

Product form : Mixture
Product name : Nano Cloaking Film
Other identification : Product Identifier: T0F2; Product Code: B880528251

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Optical Film.

1.4. Details of manufacturer or importer

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999077
T: 86-15902199714, 86-18916202964
joe@nhdfilm.com

1.5. Emergency phone number

Association/Organisation: Poisons Information Centre
Emergency phone numbers: 13 11 26
Other emergency phone numbers: Not available

SECTION 2: Hazard identification

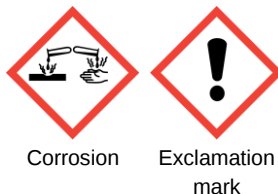
2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Skin corrosion/irritation, Category 1A	H314
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335

2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU) :



Signal word (GHS AU) : Danger

Hazard statements (GHS AU) : H314 - Causes severe skin burns and eye damage
H335 - May cause respiratory irritation

Precautionary statements (GHS AU) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P363 - Wash contaminated clothing before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

Name	CAS-No.	%
Poly(oxy-1,2-ethanediylloxycarbonyl-1,4-phenylenecarbonyl)	25038-59-9	46 – 54
Polyvinyl alcohol	9002-89-5	21 – 25
Cellulose, triacetate	9012-09-3	14 – 17
Acrylic acid	79-10-7	8 – 10

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
Acrylic acid	CAS-No.: 79-10-7	(1 ≤ C < 100) STOT SE 3; H335

SECTION 4: First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Symptoms caused by exposure

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

4.3. Medical attention and special treatment

Note to physician :	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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5.2. Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
General measures	: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Do not enter fire area without proper protective equipment, including respiratory protection.
Protective equipment for firefighters	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Hazchem Code	: 2X

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate unnecessary personnel.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

For containment	: Using a clean shovel, put the material in a dry container and cover without compressing it.
Methods for cleaning up	: Mechanically recover the product.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling	: Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Packaging materials	: PE/PVC Store always product in container of same material as original container.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

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Acrylic acid (79-10-7)	
Australia - Occupational Exposure Limits	
Local name	Acrylic acid
OES TWA	5.9 mg/m ³
	2 ppm
Remark (AU)	Sk - Absorption through the skin may be a significant source of exposure.
Regulatory reference	Workplace exposure standards for airborne contaminants (2022)

8.2. Biological Monitoring

No additional information available

8.3. Engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment : Wear recommended personal protective equipment.
Hand protection : Protective gloves
Eye protection : Safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment (EN 136/140/145)
Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

Physical state : Solid, Roll type
Appearance : Grey, Transparent solid, roll type
Colour : Grey, Transparent
Odour : No data available
Odour threshold : No data available
pH : No data available
pH solution : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point / Freezing point : Freezing point: Not applicable
Boiling point : No data available
Flash point : 79°C
Decomposition temperature : 80°C
Auto-ignition temperature : Not applicable
Flammability : Not flammable
Vapour pressure : No data available
Relative density : No data available
Density : 1.3 g/cm³
Solubility : No data available
Partition coefficient n-octanol/water (Log Pow) : No data available
Viscosity, kinematic : Not applicable
Explosive properties : No data available
Explosive limits : Not applicable
Minimum ignition energy : No data available
Fat solubility : No data available

SECTION 10: Stability and reactivity

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.
Conditions to avoid : None under recommended storage and handling conditions (see section 7).

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Incompatible materials	: No additional information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Acute toxicity (oral)	: Based on available data, the hazard classification criteria are not met.
Acute toxicity (dermal)	: Based on available data, the hazard classification criteria are not met.
Acute toxicity (inhalation)	: Based on available data, the hazard classification criteria are not met.

Polyvinyl alcohol (9002-89-5)

LD50 oral rat	23854 mg/kg (Source: NLM_CIP)
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Acrylic acid (79-10-7)

LD50 oral rat	1000 - 2000 mg/kg
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Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Based on available data, the hazard classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the hazard classification criteria are not met.
Carcinogenicity	: Based on available data, the hazard classification criteria are not met.
Reproductive toxicity	: Based on available data, the hazard classification criteria are not met.
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Based on available data, the hazard classification criteria are not met.
Aspiration hazard	: Based on available data, the hazard classification criteria are not met.

SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute)	: Based on available data, the hazard classification criteria are not met.
Hazardous to the aquatic environment, long-term (chronic)	: Based on available data, the hazard classification criteria are not met.

Acrylic acid (79-10-7)

LC50 - Fish [1]	222 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static] Source: IUCLID)
EC50 - Crustacea [1]	95 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Other aquatic organisms [1]	95 mg/l Test organisms (species):
EC50 - Other aquatic organisms [2]	0.06 mg/l
Partition coefficient n-octanol/water (Log Pow)	0.46 (at 25 °C)

12.2. Persistence and degradability

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Persistence and degradability	No additional information available
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12.3. Bioaccumulative potential

Acrylic acid (79-10-7)

Partition coefficient n-octanol/water (Log Pow)	0.46 (at 25 °C)
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12.4. Mobility in soil

Acrylic acid (79-10-7)

Mobility in soil	6 – 137 Source: ECHA
Partition coefficient n-octanol/water (Log Pow)	0.46 (at 25 °C)

12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

SECTION 13: Disposal considerations

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.

SECTION 14: Transport information

In accordance with ADG / IMDG / IATA

ADG	IMDG	IATA
14.1. UN number		
3547	3547	3547
14.2. UN Proper Shipping Name		
ARTICLES CONTAINING CORROSIVE SUBSTANCE, N.O.S.	ARTICLES CONTAINING CORROSIVE SUBSTANCE, N.O.S.	Articles containing corrosive substance, n.o.s.
14.3. Transport hazard class(es)		
8	8	8
		Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No

14.6. Special precautions for user

Specific storage requirement	: No data available
Shock sensitivity	: No data available

14.7. Additional information

Other information	: No supplementary information available
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Transport by road and rail

UN-No. (ADG)	: 3547
Special provision (ADG)	: 274, 391
Limited quantities (ADG)	: 0
Excepted quantities (ADG)	: E0
Packing instructions (ADG)	: P006, LP03

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Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

Transport by sea

UN-No. (IMDG)	: 3547
Special provisions (IMDG)	: 274, 391
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P006, LP03
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.

Air transport

UN-No. (IATA)	: 3547
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: Forbidden
PCA max net quantity (IATA)	: Forbidden
CAO packing instructions (IATA)	: Forbidden
CAO max net quantity (IATA)	: Forbidden
Special provisions (IATA)	: A2
ERG code (IATA)	: 8L

14.8. Hazchem or Emergency Action Code

Hazchem Code	: 2X
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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations

Australian Industrial Chemicals Introduction Scheme (AICIS)

Australian Inventory of Industrial Chemicals (AICIS) : All the chemicals contained in this product are listed introductions
Inventory) status

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

No additional information available

Australian Pesticides and Veterinary Medicines Authority (APVMA)

No additional information available

15.2. International agreements

No additional information available

SECTION 16: Other information

Issue date	: 2024.08.05
Revision date	: 2024.08.05

Safety Data Sheet (SDS), Australia

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.