

上海纳诺微新材料科技有限公司

Shanghai NNW New Materials Technology Co., Ltd.

Safety Data Sheet

Highlighter ink-dye

Version:1.1

Creation Date:2025/04/17

Revision Date:2025/04/17

Color: yellow

Country of Destination:EU

*Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878 and its subsequent amendments(EU) 2023/707&(EU) 2024/2865)

INTERACTION

Q-CONNECT®

MANUFACTURER

COMPANY : INTERACTION-CONNECT S.A.
 BRAND : Q-CONNECT
 ADDRESS: 296-298 Route de Longwy
 L-1940 Luxembourg, Luxembourg
 TEL.: +32 9 380 8248
 E-MAIL: info@interaction-connect.com
 WEBSITE: www.q-connect.com

SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name	Q-CONNECT Highlighter ink-dye (yellow) (KF11399-KF17782-KF01111-KF01116-KF01909-KF03774-KF16035-KF16041-KF16042-KF06660)
Synonyms	—
CAS NO.	—
ECNO.	—
UFI code	—

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	To write
Uses advised against	—

1.3 Details of the supplier of the Safety Data Sheet

Name of the company	Shanghai NNW New Materials Technology Co., Ltd.
Address of the company	ROOM 402, Building 17, Lane 268, Lingxin Road, Changning District Shanghai, CHINA
Post code	200335
Telephone number	021-64476059
Fax number	021-64476096
Email	sales@nnwchina.com

1.4 Emergency phone number

Emergency phone number	+8613311812200
------------------------	----------------

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation(EC) No 1272/2008	The product is not classified according to the CLP regulation.
---	--

2.2 Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable
Hazard statements	Not Applicable

2.3 Precautionary statements

Prevention	Not Applicable
Response	Not Applicable
Storage	Not Applicable
Disposal	Not Applicable

2.4 Other hazard

None of the ingredients ($\geq 0.1\%$) is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

SECTION 3 Composition/information on ingredients

3.1 Mixtures

► **Description:** Mixture of substances listed below with nonhazardous additions.

1. CAS No 2. EC No 3. Index No 4. REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Nanoform Particle Characteristics	SCL/M-Factor/ATF
1.56-81-5 2.200-289-5 3. Not Available 4. Not Available	15.0	Glycerol	Not Classified	Not Applicable	Not Applicable
1.6358-69-6 2.228-783-6 3. Not Available 4. Not Available	0.2-1.0	Solvent Green 7	Not Classified	Not Applicable	Not Applicable
1.7732-18-5 2.231-791-2 3. Not Available 4. Not Available	84-84.8	Water, distilled, conductivity or of similar purity	Not Classified	Not Applicable	Not Applicable

SECTION 4 First aid measures

4.1 Description of first aid measures

General advice	Seek medical attention if necessary. Show this Safety Data Sheet (SDS) to the physician present.
Eye contact	Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

5.2 Special hazards arising from the substrate or mixture

No further relevant information available.

5.3 Advice for firefighters

1	Wear fully protective suit and mouth respiratory protective device.
2	Prevent fire extinguishing water from contaminating surface water or the ground water system.
3	Fight fire from a safe distance, with adequate cover.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

1	Ensure adequate ventilation.
2	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
3	Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

6.2 Environmental precautions

1	Do not allow to enter sewers/surface or ground water.
2	Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

1	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
2	Dispose contaminated material as waste according to item 13.

SECTION 7 Handling and storage

7.1 Precautions for handling

► Protective measure

1	Ensure good ventilation/exhaustion at the workplace.
2	Keep receptacles tightly sealed.
3	Keep away from heat and direct sunlight.
4	Avoid contact with skin and eyes.
5	For the general occupational hygienic measures refer to section 8.

► Information about fire - and explosion protection

Normal measures for preventive fire protection

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms	Store in a cool location.
Information about storage in one common storage facility	Store away from foodstuffs.
Further information about storage conditions	Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s)

In addition to use mentioned in the first parts, unforeseen other specific end uses.

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
Glycerol	Inhalation 220 mg/m ³ (Local, Chronic) Inhalation 132 mg/m ³ (Local, Chronic) *	0.885 mg/L (Water (Fresh)) 0.088 mg/L (Water - Intermittent release) 8.85 mg/L (Water (Marine)) 3.3 mg/kg sediment dw (Sediment (Fresh Water)) 0.33 mg/kg sediment dw (Sediment (Marine)) 1000 mg/L (STP) 0.141 mg/kg soil dw (Soil)
Solvent Green 7	Inhalation 16.4 mg/m ³ (Local, Chronic) Dermal 0.03 mg/kg bw/day (Systemic, Chronic) Inhalation 2.9 mg/m ³ (Local, Chronic) * Dermal 0.0357 mg/kg bw/day (Systemic, Chronic) *	0.1 mg/L (Water (Fresh)) 1 mg/L (Water - Intermittent release) 0.01 mg/L (Water (Marine)) 2.06 mg/kg sediment dw (Sediment (Fresh Water)) 0.206 mg/kg sediment dw (Sediment (Marine)) 0.353 mg/kg soil dw (Soil)

* Values for General Population

8.1.1 Occupational Exposure Limits (OEL)

► Ingredient data

Ingredient	Country	Limit value - Eight hours	Limit value - Short term
Glycerol, mist	Belgium	10mg/m ³	Not data available
	VLEP (France)	10mg/m ³	Not data available
	WELs(UK)	10mg/m ³	Not data available
	Finland	20mg/m ³	Not data available
	AGS(Germany)	200mg/m ³ [1]	400mg/m ³ [1][2]
	DFG(Germany)	200mg/m ³ [1]	400mg/m ³ [1][2]
	Ireland	10mg/m ³	Not data available
	Poland	10mg/m ³	Not data available
	Spain	10mg/m ³	Not data available
	Switzerland	50mg/m ³ inhalable aerosol	100mg/m ³ inhalable aerosol

Remarks: 1. Inhalable fraction 2.15 minutes average value

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
Glycerol	45mg/m ³	180mg/m ³	1100mg/m ³

8.2 Engineering controls

General protective and hygienic measures	The usual precautionary measures are to be adhered to when handling chemicals.
--	--

8.3 Personal protection equipment

General requirement	 
Eye protection	Tightly fitting safety goggles (approved by EN166(EU) or NIOSH(US).
Hand protection	Wear protective gloves (such as butyl rubber, passing the tests according to EN 374(EU), USF739 or AS/NZS 2161.1 standard.
Respiratory protection	No special requirements.
Skin and body protection	No special requirements.
Other protection	No special equipment needed when handling small quantities.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Yellow	Viscosity	Dynamic	Not Available
Physical state	Liquid		Kinematic:	Not Available
Odour	Odourless	Vapour density (Air = 1)		Not Available
Odour threshold	Not Available	Density/Relative density		Not Available
pH (as supplied)	Not Available	Decomposition temperature		Not Available
Melting point/freezing point(°C)	Not Available	Particle Size		Not Available
Flashpoint(Closed cup, °C)	Not Available	Vapour pressure (kPa)		Not Available
Flammability	Not flammable liquid	Relative vapor density		Not Available
Evaporation rate	Not Available	Partition coefficient n-octanol/ water		Not Available
Upper Explosive Limit (%)	Not Available	Auto-ignition temperature(°C)		Not Available
Lower Explosive Limit (%)	Not Available	Explosive properties		Product does not present an explosion hazard
Self-igniting	Not Available	Oxidising properties		Not Available
Taste	Not Available	Surface Tension (dyn/cm or mN/m)		Not Available
Volatile Component (%vol)	Not Available	Gas group		Not Available

pH as a solution (1%)	Not Available	VOCg/L	Not Available
------------------------------	---------------	---------------	---------------

9.2 Other information

No further relevant information available

SECTION 10 Stability and reactivity

10.1 Stability and reactivity

Reactivity	No decomposition if used according to specifications.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	No dangerous reactions known.
Conditions to avoid	No further relevant information available.
Incompatible materials	No further relevant information available.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information

11.1 Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product.
Ingestion	The material has not been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

Highlighter ink-dye	TOXICITY Not data available	IRRITATION Not data available
Glycerol	TOXICITY Oral (rat) LD50: > 11500 mg/kg Inhalation (rat) LC50: > 5.85 mg/L 4h Dermal (guinea pig) LD50: 45 ml/kg	IRRITATION Skin (rabbit): non-irritating (Draize) Eye (rabbit): non-irritating (Draize)
Solvent Green 7	TOXICITY Oral (rat) LD50: 15000 mg/kg Dermal (guinea pig) LD50: 2000 mg/kg	IRRITATION Eye: no adverse effect observed (not irritating) (Draize) Skin: no adverse effect observed (not irritating) (Draize)

11.2 Carcinogenicity

Component	Cas No.	IARC
Glycerol	56-81-5	Not Listed
Solvent Green 7	6358-69-6	Not Listed
Water	7732-18-5	Not Listed

11.2.1 Endocrine Disruption Properties

None of the ingredients ($\geq 0.1\%$) is considered to have endocrine-disrupting properties with respect to humans, as none of them meet the criteria set out in section A of Regulation (EU) No 2017/2100.

11.3 Primary irritant effect

Carcinogenicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.

Skin sensitization	Based on available data, the classification criteria are not met.
Respiratory sensitization	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

SECTION 12 Ecological information

12.1 Toxicity

Highlighter ink-dye	Endpoint	Test Duration (hr)	Species	Value
	Not data available	Not data available	Not data available	Not data available
Glycerol	Endpoint	Test Duration (hr)	Species	Value
	LC50	96h	Fish	885mg/L
	EC50	24h	Crustacea	10000mg/L
	EC50	72h	Algae or other aquatic plants	2.9mg/L
Solvent Green 7	Endpoint	Test Duration (hr)	Species	Value
	NOEC	48h	Crustacea	100 mg/L
	LC50	96h	Fish	100 mg/L
	EC50	48h	Crustacea	100-500 mg/L
	EC50	168h	Aquatic plants other than algae	100 mg/L

12.2 Persistence and degradability

Component	Cas No.	Persistence (water/soil)
Glycerol	56-81-5	Readily biodegradable in water
Solvent Green 7	6358-69-6	Not ready biodegradable

12.3 Bioaccumulative potential

Component	Cas No.	Bioaccumulative potential	Remarks
Glycerol	56-81-5	Potential for a low bioaccumulation	Log Kow=-1.76
Solvent Green 7	6358-69-6	Potential for a low bioaccumulation	Log Kow=-3.97

12.4 Mobility in soil

Component	Cas No.	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Glycerol	56-81-5	Koc=23.74
Solvent Green 7	6358-69-6	Koc=3.024 - 3.313

12.5 Results ofPBT and vPvB assessment

PBT	Not Available
vPvB	Not Available

12.6 Endocrine Disruption Properties

None of the ingredients ($\geq 0.1\%$) is considered to have endocrine-disrupting properties with respect to non-target organisms, as none of them meet the criteria set out in section B of Regulation (EU) No 2017/2100.

12.7 Other adverse effects

No further relevant information available.

SECTION 13 Disposal considerations

13.1 Waste treatment methods

Product /Packaging disposal	Legislation addressing waste disposal requirements may differ by country, state and/or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. 1. Do not allow wash water from cleaning or process equipment to enter drains. 2. It may be necessary to collect all wash water for treatment before disposal. 3. Recycle wherever possible 4. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
Waste treatment options	Not Available
Sewage disposal options	Not Available

SECTION 14 Transport information

14.1 UN-Number

ADR/RID/ADN, IMDG, IATA	Not Available
--------------------------------	---------------

14.2 UN proper shipping name

ADR/RID/ADN, IMDG	Not Available
IATA	Not Available

14.3 Transport hazard class(es)

ADR/RID/ADN, IMDG, IATA	Not Available
Class	Not Available
Label	Not Available

14.4 Packing group

ADR/RID/ADN, IMDG, IATA	Not Available
--------------------------------	---------------

14.5 Environmental hazards

Not Applicable

14.6 Special precautions for user

Warning	Not Available
Hazard identification number (Kemler code)	Not Available
EMS Number:	Not Available
Stowage Category	Not Available

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not Applicable

14.8 Transport/Additional information

UN "Model Regulation"	Not Available
------------------------------	---------------

SECTION 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances -ANNEX I	None of the ingredients is listed
Other regulations, limitations and prohibitive regulations	
SVHC Candidate List of REACH Regulation Annex XIV Authorisation	None of the ingredients is listed
REACH Regulation Annex XVII Restriction	None of the ingredients is listed
REACH Regulation Annex XIV Authorization List	None of the ingredients is listed

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.3 International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS
Glycerol	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Water	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Solvent Green 7	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed

【EINECS】 European Inventory of Existing Commercial Chemical Substances

【TSCA】 United States Toxic Substances Control Act Inventory

【DSL】 Canadian Domestic Substances List

【IECSC】 China Inventory of Existing Chemical Substances

【NZIoC】 New Zealand Inventory of Chemicals

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances

【KECI】 Existing and Evaluated Chemical Substances

【AICS】 Australia Inventory of Chemical Substances

SECTION 16 Other information

16.1 Information on revision

Creation Date	2025/04/17
Revision Date	2025/04/17
Reason for revision	—

16.2 Abbreviations and acronyms

SCL:Specific Concentration limits

ATE:Acute Toxicity Estimates

Cas:Chemical Abstracts Service

PC—TWA:Permissible Concentration-Time Weighted Average

PC—STEL:Permissible Concentration-Short Term Exposure Limit

IARC:International Agencyfor Research on Cancer

STEL:Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit

ADR: Accord européen sur le transport des marchandises dangereusespar Route (European Agreement concerning the International Carriage ofDangerous Goods by Road)

IMDG: International Maritime Codefor Dangerous Goods

IATA:International Air Transport Association

GHS: Globally Harmonised System ofClassification and Labelling ofChemicals

EINECS: European Inventory ofExisting Commercial Chemical Substances

NOEC:No Observed Effect Concentration

BCF:BioConcentration Factors

ELINCS:European List ofNotified Chemical Substances

DNEL:Derived No-Effect Level (REACH)

PNEC:Predicted No-Effect Concentration (REACH)

LC50:Lethal concentration, 50 percent

LD50:Lethal dose, 50 percent

PBT:Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

16.3 Disclaimer

16.4 Further information

The contents andformat ofthis SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008 and (EU)2024/2865).

DISCLAIMER OF LIABILITY:

This Safety Data Sheet (SDS) was prepared according to REACH Regulation The data included was derived from international authoritative data base and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.