Safety Data Sheet

according to Regulation (EC) No 1907/2006, Article 31,
as modified by Regulation (EU) No 2015/830
Edition 2 Revision N° 3
Revision: 6/3/2018, Printing date : 6/3/2018

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

1.1. Product identifier

Mixture identification:
Trade name: J-NEXT SUBLY YELLOW
Trade code: JXS65300Y1.0LW

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

Recommended use:
Digital printing ink
Uses advised against:
All those who are not listed in the recommended uses

1.3. Details of the supplier of the safety data sheet

Company:
JK Group S.p.A. a socio unico
Via per Montorfano, 68-70
22032 Albese con Cassano (CO), IT
Ph. +39 031 428102
Fax +39 031 4290102
Competent person responsible for the safety data sheet:
info@j-teck3.com

1.4. Emergency telephone number

CAV Pavia - Università degli Studi di Pavia, IRCCS Fondazione Maugeri
Via Salvatore Maugeri 10, 27100 Pavia
Tel. +39 0382-24444 (24/24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)
Warning, Skin Sens. 1B, May cause an allergic skin reaction.
Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements

Hazard pictograms:

Warning
Hazard statements:
H317 May cause an allergic skin reaction.
Precautionary statements:
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
Special Provisions:
None
Contains
Disperse Yellow 54, 3-hydroxy-2-(3-hydroxy-2-quinolyl)-1H-inden-1-one
Special provisions according to Annex XVII of REACH and subsequent amendments:
None

2.3. Other hazards
vPvB Substances: None - PBT Substances: None
Other Hazards:
No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances
N.A.
3.2. Mixtures
Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
1% <= x < 3%	Disperse Yellow 54, 3-hydroxy-2-(3-hydroxy-2-quinolyl)-1H-inden-1-one	CAS: 17772-51-9 EC: 241-753-7 REACH No.: 01-2120086353-55-XXXX	3.4.2/1B Skin Sens. 1B H317

Note: Upper limit is not included into the range. The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4: First aid measures

4.1. Description of first aid measures
In case of skin contact:
Remove contaminated clothing immediatley and dispose off safely.
In case of eyes contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
In case of Ingestion:
Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.
4.2. Most important symptoms and effects, both acute and delayed
None
4.3. Indication of any immediate medical attention and special treatment needed
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Water.
Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhaltion of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
Adopt good working practices, so that the product is not released into the environment.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.

7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No occupational exposure limit available
DNEL Exposure Limit Values
N.A.
PNEC Exposure Limit Values
N.A.
8.2. Exposure controls
Eye protection:
Safety glasses for protection against chemicals (EN166).
Protection for skin:
Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
Protection for hands:
Wear suitable gloves tested to EN374.
Respiratory protection:
Not needed for normal use.
Thermal Hazards:
None
Environmental exposure controls:
None
Appropriate engineering controls:
None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Appearance:	liquid	--	--
Colour:	yellow	--	--
Odour:	mild	--	--
Odour threshold:	not available	--	--
pH:	7-9	--	@ 25°C
Melting point / freezing point:	not available	--	--
Initial boiling point and boiling range:	> 100 °C / 212 °F	--	--
Flash point:	> 130 °C / > 266 °F	--	--

Evaporation rate:	not available	--	--
Solid/gas flammability:	not applicable	--	Not applicable, it's a liquid
Upper/lower flammability or explosive limits:	not available	--	--
Vapour pressure:	not available	--	--
Vapour density:	not available	--	--
Relative density:	1.080	--	@ 25°C
Solubility in water:	soluble	--	--
Solubility in oil:	not available	--	--
Partition coefficient (n-octanol/water):	not available	--	--
Auto-ignition temperature:	not available	--	--
Decomposition temperature:	not available	--	--
Viscosity:	2 - 7 cPs	--	@ 25°C
Explosive properties:	not applicable	Regulation (EC) No 1907/ 2006, Annex VII, Column 2, point 7.11	no chemical groups associated with explosive properties
Oxidizing properties:	not applicable	Regulation (EC) No 1907/ 2006, Annex VII, Column 2, point 7.13	the product is incapable of reacting exothermically with combustible materials

9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	miscible	--	--
Fat Solubility:	not available	--	--
Conductivity:	not available	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions
10.2. Chemical stability
Stable under normal conditions
10.3. Possibility of hazardous reactions
None
10.4. Conditions to avoid
Stable under normal conditions.
10.5. Incompatible materials
None in particular.
10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological information of the product:
J-NEXT SUBLY YELLOW
a) acute toxicity
Not classified
Based on calculation method, the classification criteria are not met
b) skin corrosion/irritation
Not classified
Based on calculation method, the classification criteria are not met
c) serious eye damage/irritation
Not classified
Based on calculation method, the classification criteria are not met
d) respiratory or skin sensitisation
The product is classified: Skin Sens. 1B H317
e) germ cell mutagenicity
Not classified
Based on calculation method, the classification criteria are not met
f) carcinogenicity
Not classified
Based on calculation method, the classification criteria are not met
g) reproductive toxicity
Not classified
Based on calculation method, the classification criteria are not met
h) STOT-single exposure
Not classified
Based on calculation method, the classification criteria are not met
i) STOT-repeated exposure
Not classified
Based on calculation method, the classification criteria are not met
j) aspiration hazard
Not classified
Based on calculation method, the classification criteria are not met
Toxicological information of the main substances found in the product:
Disperse Yellow 54, 3-hydroxy-2-(3-hydroxy-2-quinolyl)-1H-inden-1-one - CAS: 17772-51-9
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg

b) skin corrosion/irritation:
Test: Skin Irritant - Route: Skin - Species: Rat > 5000 mg/kg - Notes: OECD 404
Test: Skin Irritant - Route: Skin - Species: Mouse Positive
c) serious eye damage/irritation:
Test: Eye Irritant - Route: OCULARE - Species: Rabbit Negative - Notes: OECD 405
e) germ cell mutagenicity:
Test: Mutagenesis Negative - Notes: Ames test
Test: Mutagenesis Negative - Notes: OECD 476 - In vitro
Test: Mutagenesis Negative - Notes: OECD 487 - In vitro
i) STOT-repeated exposure:
Test: NOAEL - Route: Oral - Species: Rat 1000 mg/kg bw/day

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological information of the product:
J-NEXT SUBLY YELLOW
Not classified for environmental hazards
Based on calculation method, the classification criteria are not met
Ecotoxicological information of the main substances found in the product:
Disperse Yellow 54, 3-hydroxy-2-(3-hydroxy-2-quinolyl)-1H-inden-1-one - CAS: 17772-51-9
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 180 mg/l - Duration h: 96 - Notes: Pimephales promelas
Endpoint: NOEC - Species: Daphnia > 0.07 mg/l - Duration h: 504 - Notes: Daphnia Magna - OECD 211 (mortalità)
Endpoint: NOEC - Species: Daphnia > 0.07 mg/l - Duration h: 504 - Notes: Daphnia Magna - OECD 211 (mortalità)
Endpoint: EC50 - Species: Algae > 0.412 mg/l - Duration h: 72 - Notes: Desmodesmus subspicatus - OECD 201
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Algae > 0.412 mg/kg - Duration h: 72 - Notes: Desmodesmus subspicatus - OECD 201
f) Effects in sewage plants:
Endpoint: EC50 - Species: Active sludges > 1000 mg/l - Duration h: 3

12.2. Persistence and degradability

Disperse Yellow 54, 3-hydroxy-2-(3-hydroxy-2-quinolyl)-1H-inden-1-one - CAS: 17772-51-9
Biodegradability: Non-readily biodegradable - Test: jk01 - Duration h: JK01 - %: 0 - Notes: N.A.

12.3. Bioaccumulative potential

Disperse Yellow 54, 3-hydroxy-2-(3-hydroxy-2-quinolyl)-1H-inden-1-one - CAS: 17772-51-9
Bioaccumulation: Bioaccumulative - Test: Kow - Partition coefficient 4.8 - Duration h: N.A. - Notes: N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.
Dispose of waste product or used containers according to local regulations.
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number

ADR-UN number:	not applicable
IATA-Un number:	not applicable
IMDG-Un number:	not applicable

14.2. UN proper shipping name

ADR-Shipping Name:	not applicable
IATA-Shipping Name:	not applicable
IATA-Technical name:	not applicable
IMDG-Shipping Name:	not applicable
IMDG-Technical name:	not applicable

14.3. Transport hazard class(es)

ADR-Class:	N.A.
ADR-Label:	not applicable
IATA-Class:	not applicable
IATA-Label:	not applicable
IMDG-Class:	not applicable
IMDG-Label:	not applicable

14.4. Packing group

ADR-Packing Group:	not applicable
IMDG-Packing group:	not applicable

14.5. Environmental hazards

ADR-Enviromental Pollutant:	No
IMDG-Marine pollutant:	No

14.6. Special precautions for user

ADR-Tunnel Restriction Code:	not applicable
Rail (RID):	not applicable
IATA-Cargo Aircraft:	not applicable

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

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

No restriction.

Volatile Organic compounds - VOCs = 0.13 %
Volatile Organic compounds - VOCs = 1.30 g/Kg
Volatile CMR substances = 0.00 %
Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %
Organic Carbon - C = 0.00

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H317 May cause an allergic skin reaction.

Hazard class and hazard category	Code	Description
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B

This safety data sheet has been completely updated in compliance to Regulation 2015/830.
Paragraphs modified from the previous revision:

SECTION 9: Physical and chemical properties
SECTION 12: Ecological information
SECTION 15: Regulatory information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Sens. 1B, H317	Calculation method

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.