

Safety Data Sheet

Safety Data Sheet dated 20/8/2018, version 1

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: J-ECO SUBLY NANO MAGENTA

Other means of identification:

Trade code: NS60200M1.0LW

Recommended use of the chemical and restrictions on use

Recommended use:

Digital printing ink

Restrictions on use:

All those who are not listed in the recommended uses

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company:

JK Group USA, Inc.

106 Industrial Park Dr.

Soddy-Daisy, TN 37379

Phone +1 (423) 486-9376

Fax +1 (423) 486-9387

Competent person responsible for the safety data sheet:

safety@j-k-group.com

Emergency phone number

CAV Pavia

Istituti Clinici Scientifici Maugeri Spa SB

Via Salvatore Maugeri 4 - 27100 PAVIA

Tel. +39 0382-24444 (24/24h)

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

⚠ Warning, Skin Sens. 1A, May cause an allergic skin reaction.

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.

P272 Contaminated work clothing should not be allowed out of the workplace.

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.

P363 Wash contaminated clothing before reuse.

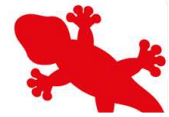
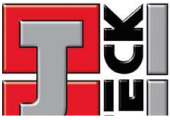
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None



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Ingredient(s) with unknown acute toxicity:
None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

5% \leq x < 7% Lignosulfonic acid

CAS: 105859-97-0, EC: 600-691-4

⚠ A.3/2A Eye Irrit. 2A H319

3% \leq x < 5% Disperse Red 60: 1-amino-4-hydroxy-2-phenoxyanthraquinone

REACH No.: 01-2120094712-53-0005, CAS: 17418-58-5, EC: 241-442-6

⚠ A.4.2/1A Skin Sens. 1A H317

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately 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.

Most important symptoms/effects, acute and delayed

None

Indication of 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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties: not applicable

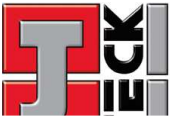
Oxidizing properties: not applicable

Special protective equipment and precautions for fire-fighters

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.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Remove persons to safety.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

Methods and materials for containment and cleaning up

Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not use on extensive surface areas in premises where there are occupants.

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.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

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.

Storage temperature:

Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No occupational exposure limit available

DNEL Exposure Limit Values

Disperse Red 60: 1-amino-4-hydroxy-2-phenoxyanthraquinone - CAS: 17418-58-5

Worker Industry: 3.53 mg/m³ - Worker Professional: 3.53 mg/m³ - Exposure: Human

Inhalation - Frequency: Short Term, systemic effects

Consumer: 0.5 03 - Exposure: Human Oral - Frequency: Long Term (repeated)

Consumer: 0.87 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term (repeated)

PNEC Exposure Limit Values

Disperse Red 60: 1-amino-4-hydroxy-2-phenoxyanthraquinone - CAS: 17418-58-5

Target: Fresh Water - Value: 0.1 mg/l

Target: Marine water - Value: 0.01 mg/l

Target: Freshwater sediments - Value: 217 05

Target: Marine water sediments - Value: 21.7 05

Target: Microorganisms in sewage treatments - Value: 10 mg/l

Appropriate engineering controls:

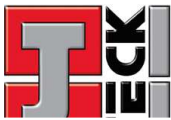
None

Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:



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Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

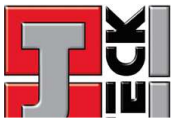
Not needed for normal use.

Thermal Hazards:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Value	Method:	Notes
Appearance:	liquid	--	--
Colour:	red	--	--
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:	> 266 °F	--	--
Evaporation rate:	not available	--	--
Solid/gas flammability:	not applicable	--	--
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 - 8 cPs	--	@ 25°C
Miscibility:	miscible	--	--



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Fat Solubility:	not available	--	--
Conductivity:	not available	--	--
Substance Groups relevant properties	not available	--	--

10. STABILITY AND REACTIVITY

Reactivity
Stable under normal conditions

Chemical stability
Stable under normal conditions

Possibility of hazardous reactions
None

Conditions to avoid
Stable under normal conditions.

Incompatible materials
None in particular.

Hazardous decomposition products
None.

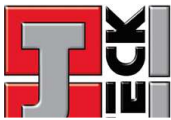
11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Toxicological information of the product:
J-ECO SUBLY NANO MAGENTA

- 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. 1A 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:

J-ECO SUBLY NANO MAGENTA



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Lignosulfonic acid - CAS: 105859-97-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 10000 mg/kg

Disperse Red 60: 1-amino-4-hydroxy-2-phenoxyanthraquinone - CAS: 17418-58-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2772 mg/kg bw/day - Source: Registrant's Study Report - Notes: equivalent/smilar to OECD 401

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Negative

c) serious eye damage/irritation:

Test: Eye Irritant - Route: OCULARE - Species: Rabbit Negative

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: Guinea Pig Positive - Source: Registrant's Study Report - Notes: OECD 406 - in vivo

e) germ cell mutagenicity:

Test: Mutagenesis - Route: Oral Negative - Source: Registrant's Study Report - Notes: OECD 471 (in vivo) / OECD473 (in vitro)

g) reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rat Negative 1000 mg/kg bw/day - Source: Registrant's Study Report - Notes: OECD 422

i) STOT-repeated exposure:

Test: NOAEL - Route: Oral - Species: Rat Negative 300 mg/kg bw/day - Source: Registrant's Study Report - Notes: OECD 422

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

None.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

J-ECO SUBLY NANO MAGENTA

Not classified for environmental hazards

Based on calculation method, the classification criteria are not met

Lignosulfonic acid - CAS: 105859-97-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 615 mg/l - Duration h: 96 - Notes: Pimephales promelas

Disperse Red 60: 1-amino-4-hydroxy-2-phenoxyanthraquinone - CAS: 17418-58-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 162 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss - equivalent/similar to OECD 203

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: Daphnia Magna - OECD 202

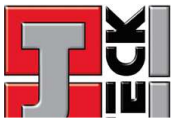
Endpoint: EC5 - Species: Daphnia = 100 mg/l - Duration h: 48 - Notes: Daphnia Magna - OECD 202

Endpoint: EC50 - Species: Algae 100 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata - OECD 201

f) Effects in sewage plants:

Endpoint: EC50 - Species: Active sludges > 1000 mg/l - Notes: active sludges - OECD 209

Persistence and degradability



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Lignosulfonic acid - CAS: 105859-97-0

Biodegradability: Non-readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.

Disperse Red 60: 1-amino-4-hydroxy-2-phenoxyanthraquinone - CAS: 17418-58-5

Biodegradability: Non-readily biodegradable - Test: BOD5/DOC - Duration h: .20D - %: 0.01 - Notes: N.A.

Bioaccumulative potential

Disperse Red 60: 1-amino-4-hydroxy-2-phenoxyanthraquinone - CAS: 17418-58-5

Bioaccumulation: N.A. Test: BCF - Bioconcentration factor 6.33 - Duration h: N.A. - Notes: aquatic environment - estimated with EUSES 2.1.2

Bioaccumulation: N.A. Test: BCF - Bioconcentration factor 1.54 - Duration h: N.A. - Notes: soil - estimated with EUSES 2.1.2

Mobility in soil

N.A.

Other adverse effects

None

13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

UN number

ADR-UN number: not applicable

IATA-Un number: not applicable

IMDG-Un number: not applicable

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

Transport hazard class(es)

ADR-Class: not applicable

ADR-Label: not applicable

IATA-Class: not applicable

IATA-Label: not applicable

IMDG-Class: not applicable

IMDG-Label: not applicable

Packing group

ADR-Packing Group: not applicable

IMDG-Packing group: not applicable

Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

ADR-Tunnel Restriction Code: not applicable

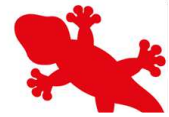
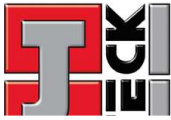
Rail (RID): not applicable

IATA-Cargo Aircraft: not applicable

Special precautions

N.A.

15. REGULATORY INFORMATION



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USA - Federal regulations	
TSCA - Toxic Substances Control Act	
TSCA inventory: all the components are listed on the TSCA inventory	
SARA - Superfund Amendments and Reauthorization Act	
Section 302 - Extremely Hazardous Substances:	
Name	CAS
Formaldehyde	50-00-0
Section 304 - Hazardous substances:	
Name	CAS
Formaldehyde	50-00-0
Section 313 - Toxic chemical list:	
Name	CAS
Formaldehyde	50-00-0
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act	
Name	CAS
Formaldehyde	50-00-0
CAA - Clean Air Act	
CAA listed substances:	
No substances listed	
CWA - Clean Water Act	
CWA listed substances:	
No substances listed	
USA - State specific regulations	
California Proposition 65	
Substance(s) listed under California Proposition 65:	
- Listed as carcinogen	
Name	CAS
Formaldehyde	50-00-0
- Listed as reproductive toxicant	
No substances listed	
Massachusetts Right to know	
Substance(s) listed under Massachusetts Right to know:	
Name	CAS
Glycerol	56-81-5
Formaldehyde	50-00-0
New Jersey Right to know	
Substance(s) listed under New Jersey Right to know:	
Name	CAS
Glycerol	56-81-5
Formaldehyde	50-00-0
Pennsylvania Right to know	
Substance(s) listed under Pennsylvania Right to know:	
Name	CAS
Glycerol	56-81-5
2,2' -oxybisethanol; diethylene glycol	111-46-6
Formaldehyde	50-00-0
16. OTHER INFORMATION	
Full text of phrases referred to in Section 3:	



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H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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Disclaimer:

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. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet 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.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
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.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration.
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