



Kraftkolour
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THOMASTOWN Vic 3074
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Safety Data Sheet

OPULENCE HEAT SET SILK DYES

1. IDENTIFICATION OF THE CHEMICAL / MIXTURE AND THE SUPPLIER

Product Name: OPULENCE HEAT SET DYES
Other Names: Not applicable.
Recommended Use: Textile printing auxiliary.
Supplier:
Company: Craft Explosion P/L t/a Kraftkolour
Street Address: Factory 2, 99 Heyington Ave,
THOMASTOWN VIC 3074 Australia.
ABN: 18 657 252 072
Telephone: +61 (0)3 9465 4865
Facsimile: -
E-mail: info@kraftkolour.com.au

Emergency Numbers: Transport & Spill emergencies only)
(Mon – Fri, 8am – 5pm) +61 (0)3 9465-4865
(After hours) - POISON INFORMATION 13 11 26

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS CHEMICAL / NON-DANGEROUS GOODS
according to criteria of Safe Work Australia / ADG Code

GHS

● CLASSIFICATION

Hazard Class/Category: None allocated.

● LABEL ELEMENTS

Symbols: None allocated.

Signal Word: None allocated.

Hazard Statements: None allocated.

Precautionary Statements:

Prevention – None allocated.

Response – None allocated.

Storage – None allocated.

Disposal – None allocated.

● OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION:

Contains <0.15% of 1,2 Benzisothiazol-3(2H)-one (CAS 2634-33-5) which may cause skin sensitization in susceptible individuals.

ADG 7

Class:	None allocated.
Subsidiary Risk 1:	None allocated.
Packing Group:	None allocated.
IERG:	None allocated.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterisation: complex blend of binders and additives.

Chemical Identity of Ingredients	CAS No.	Proportion
• 1,2 Benzisothiazol-3(2H)-one	2634-33-5	< 0.05%
• Ethanol, 2,2'-oxybis-	111-46-6	< 0.3%
• Formaldehyde (residual)	50 -00-0	< 0.003%
• Ingredients determined NOT to be hazardous	-	to 100%
RESIN BINDER	<30%	
THICKENER	<1%	
EMULSIFIERS	<5%	
SOFTENER	<5%	
PIGMENT COLOURS, Various	2-26%	
pH CONTROL AGENT	<1%	

Proportion (% weight per weight): VHIGH >60, HIGH 30–60, MED 10–<30, LOW 1–9, VLOW <1

4. FIRST AID MEASURES**• DESCRIPTION OF NECESSARY MEASURES ACCORDING TO ROUTES OF EXPOSURE**

First aid responders should consider the use of PPE described in Section 8 to ensure that they do not become a casualty.

Scheduled Poisons: Poison Information Centres in each state capitol city can provide additional assistance.

Telephone: AUSTRALIA - 13 11 26.

Inhalation: If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air.
Seek medical attention if effects persist.

Skin Contact: Remove all contaminated clothing immediately (launder before re-use). Thoroughly wash contaminated skin with plenty of water and soap, or other non-irritating cleansing agents. Seek medical attention if irritation develops.

Eye Contact: Contamination of the eyes must be treated by thorough irrigation with water for at least 15 minutes, with the eyelids held open.
A doctor (or eye specialist) should be consulted if irritation develops.

Ingestion: Rinse mouth immediately and then drink plenty of water.
Seek medical attention if you feel unwell.

First Aid Facilities: No specific requirements.

• SYMPTOMS CAUSED BY EXPOSURE

Inhalation: Breathing vapours/fumes may cause coughing and transient shortness of breath.

Skin Contact: May cause temporary itching and dryness of skin.

Eye Contact: May cause temporary discomfort and redness.

Ingestion: May cause gastro-intestinal discomfort, nausea, vomiting.

• MEDICAL ATTENTION AND SPECIAL TREATMENT

Treat symptomatically; no special treatment or antidote.

5. FIRE-FIGHTING MEASURES**• SUITABLE EXTINGUISHING EQUIPMENT**

Water spray, Foam, Dry powder, CO2.

• SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

None known.

• SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Hazchem Code: None assigned.

Fire-fighters should wear protective boots, overalls, gloves and goggles.

Fire-fighters are advised to wear self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

● PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Persons responding to accidental release or spills of this product are advised to wear PPE as given in Section 8.

CAUTION! Slippery when spilt. Prevent entry by non-essential personnel to area.

● ENVIRONMENTAL PRECAUTIONS

Do not allow product to enter drains or waterways. Advise authorities if such an event occurs.

● METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Contain the spill, using bunding if required. Cover/plug drains if necessary. For large spills, pump off if possible. Place inert absorbent (sand, dirt or vermiculite) on the spilled product.

Transfer to suitable, labelled, sealable containers by mechanical means (eg: shovel).

Wash away residue with water. Do not flush into drains or waterways.

Dispose of collected product in accordance with instructions in section 13. Do not use sewer for disposal.

7. HANDLING AND STORAGE

● PRECAUTIONS FOR SAFE HANDLING

Wash hands after use and before eating, drinking, smoking or using toilet.

Remove contaminated clothing & protective equipment before entering eating areas. Observe the usual precautionary measures required for the safe handling of liquid chemicals.

Wear personal protective equipment as given in Section 8 of this SDS. Avoid inhalation of vapours/fumes/mists.

● CONDITIONS FOR SAFE STORAGE

Keep containers tightly closed and in a cool place. Protect from extremes of temperature. Store between 5°C and 30°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

● CONTROL PARAMETERS

Avoid breathing vapours or aerosols.

○ Exposure Standards

Occupational Exposure Limits For This Chemical	TWA		STEL		BLV	Notices
	ppm	mg/m ³	ppm	mg/m ³		
No exposure standards allocated.	X	X	X	X	X	X

Occupational Exposure Limits For Ingredients	TWA		STEL		BLV	Notices
	ppm	mg/m ³	ppm	mg/m ³		
● Ethanol, 2,2'-oxybis- (CAS 111-46-6)	23	100	X	X	X	X
● Formaldehyde (CAS 50-00-0)	1	1.2	2	2.5	X	Carc. Cat 2. Sen.

Carc. Cat 2. = Carcinogen Category 2.

X = No data available

Sen. = Sensitiser.

TWA – the Time Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL - (Short Term Exposure Limit) – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal, eight-hour, working day. According to current knowledge, these concentrations should neither impair the health of, nor cause undue discomfort to nearly all workers.

BLV - Biological Limit Value.

'Sk' notice – Absorption through the skin may be a significant source of exposure.

The exposure standard is invalidated if such contact should occur.

These exposure standards are guides to be used in the control of occupational health hazards.

All atmospheric contamination should be kept to as low a level as is workable. Exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

○ Biological Monitoring

No biological monitoring required.

● ENGINEERING CONTROLS

Maintain air concentration below occupational exposure standards, using engineering controls if necessary.

Good general ventilation should be sufficient to control airborne exposure.

Provide local exhaust ventilation if general ventilation is insufficient.

Engineering controls, such as provision of local exhaust ventilation or containment, should always be implemented before personal protective equipment is necessary.

● PERSONAL PROTECTIVE EQUIPMENT

Eye / Face Protection: Wear safety glasses with side shields or chemical goggles.



Final choice of appropriate eye/face protection will vary according to individual circumstances.

Eye protection devices should conform to AS/NZS 1337 - Eye Protectors for Industrial Applications.

Respiratory Protection: None required under normal conditions of use.

Wear an approved respirator if engineering controls are not effective in controlling airborne exposure.

For guidance on the selection, use and maintenance of Respiratory Protection Devices, refer to AS/NZS 1715 & AS/NZS 1716.

Gloves:



Impermeable protective gloves must be chosen according to the function of the work station: other chemicals which may be handled, physical protection necessary (resistance to cutting, puncture, heat), dexterity required. Gloves must be inspected prior to use.

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. The selection of gloves must take into account the extent and duration of use at the workstation. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Hand protection should conform to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Clothing:



Choose body protection according to the amount and concentration of the hazardous chemical at the work place. Consideration must be given to durability as well as permeation resistance. Launder contaminated clothing before reuse.

Clothing should comply with AS3765 Clothing for Protection Against Hazardous Chemicals. Footwear should conform to AS/NZS 2210.1: 2010 Safety, protective and occupational footwear-Guide to selection, care and use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	white, viscous paste
Odour:	mild odour
Odour Threshold:	Not available.
pH:	9 - 10 (undiluted).
Freezing Point:	Not available.
Boiling Point /Boiling Range:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability:	Not flammable.
Flammability Limits:	Not applicable.
Vapour Pressure:	Not available.
Vapour Density:	Not available.
Density:	Not available.
Solubility:	Not available.
Partition Co-efficient:	n-octanol / water; Not available.
Ignition Temperature:	Not available.
Auto-Ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Viscosity:	4500 ± 500 cPs.
Particle Characteristics:	Not applicable.

10. STABILITY AND REACTIVITY

Reactivity:	Will not react or polymerise if stored and handled according to instructions.
Chemical Stability:	Stable under normal ambient and anticipated storage and handling conditions. No thermal decomposition when stored and handled correctly.
Possibility of Hazardous Reactions:	Will not react or polymerise if stored and handled according to instructions.
Conditions to Avoid:	None known.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	No hazardous decomposition products if stored & handled as instructed.

11. TOXICOLOGICAL INFORMATION

• TOXICOLOGY

Acute Toxicity –

Oral

Product : ORAL LD50 (rat) > 4,000 mg/kg.

Inhalation

Product : No data available.

Ingredients: No data available.

Dermal

Product : No data available.

Ingredients: No data available.

Skin Corrosion/Irritation –

Product : Not a skin irritant.

Serious Eye Damage/Irritation –

Product : Not an eye irritant.

Respiratory or Skin Sensitisation –

Product : Not a skin sensitiser.

Ingredients: Contains 1,2 Benzisothiazol-3(2H)-one (<0.15%) and Formaldehyde (residual <0.003%), each of which may cause skin sensitisation in susceptible individuals.

Germ Cell Mutagenicity –

Product : No data available.

Ingredients: No data available.

Carcinogenicity –

Product : No data available.

Ingredients: No data available.

Reproductive Toxicity –

Product : No data available.

Ingredients: No data available.

STOT; Single Exposure –

Product : No data available.

Ingredients: No data available.

STOT; Repeated Exposure –

Product : No data available.

Ingredients: No data available.

Aspiration Hazard –

Product : No data available.

Ingredients: No data available.

Other Data –

The product has not been tested.

Data Statements are calculated/derived from the toxicological properties of the ingredients.

- **HEALTH EFFECTS - ACUTE**

- Inhalation:** No data available.
- Skin Contact:** Non-Irritant. May cause temporary redness / mild irritation.
- Eye Contact:** Non-Irritant. May cause temporary redness / mild irritation.
- Ingestion:** May cause irritation to gastro-intestinal tract resulting in nausea and vomiting.

- **HEALTH EFFECTS - CHRONIC**

- Inhalation:** No data available.
- Skin Contact:** No data available.
- Eye Contact:** No data available.
- Ingestion:** No data available.

12. ECOLOGICAL INFORMATION

- **ECOTOXICITY**

- Fish Toxicity:** LC50 (96 hours) > 400mg/l.
- Invertebrate Toxicity:** LC50 (48 hours) > 100mg/l.
- Algae Toxicity:** No data available.
- Bacteria Toxicity:** No data available.

- **PERSISTENCE AND DEGRADABILITY**

Biodegradation is calculated at >90%; product is easily eliminated and is biodegradable.

- **BIOACCUMULATIVE POTENTIAL**

No data available.

- **MOBILITY IN SOIL**

No data available.

- **OTHER ADVERSE EFFECTS**

No data available.

- **OTHER DATA**

The product will not add to the AOX-value of the sewage.

The product does not contain heavy metals in concentrations of concern for waste water.

The product has not been tested.

Data/statements are calculated/derived from the ecotoxicological properties of the ingredients.

13. DISPOSAL CONSIDERATIONS

- **DISPOSAL METHODS**

All persons conducting reclamation, recycling or disposal activities with this material should refer to Section 8 of this SDS for information on exposure controls and required PPE.

Containers for disposal should be constructed of similar material to the original containers, if possible.

Use metal, polypropylene or polyethylene containers if unsure.

Do not use un-lined metal containers if material is corrosive to metals.

Consult Sections 7, 10 and 14 for further information in order to determine suitable containers.

If utilisation or recycling of product is not possible, it should be disposed of, in accordance with local regulations and laws, e.g. at an authorised incineration plant or special waste disposal site. Do not use sewer for disposal.

- **CONTAMINATED PACKAGING**

Contaminated packaging should be emptied as much as possible and may be re-used after appropriate cleaning with water and soap/detergent. Packaging that cannot be cleaned should be disposed of as for the product.

- **ENVIRONMENTAL REGULATIONS**

No data available.

14. TRANSPORT INFORMATION

- **ROAD & RAIL : ADG 7** Not Classified as Dangerous Goods.

Proper Shipping Name: Not Applicable.

UN Number:	DG Class:	Subsidiary Risk:	PG:	IERG:	Hazchem:
N/A	N/A	N/A	N/A	N/A	N/A

Environmental Hazards: None known.

Segregation of DGs: Not Applicable

Special Precautions: None known.

- **MARINE TRANSPORT : IMDG** Not Classified as Dangerous Goods.

Proper Shipping Name: Not Applicable.

UN Number:	DG Class:	Subsidiary Risk:	PG:	IERG:	Marine Pollutant:
N/A	N/A	N/A	N/A	N/A	NO

Environmental Hazards: None known.

Segregation of DGs: Not Applicable

EmS Guide: No codes allocated.

- **AIR TRANSPORT : IATA-DGR** Not Classified as Dangerous Goods.

Proper Shipping Name: Not Applicable.

UN Number:	DG Class:	Subsidiary Risk:	PG:	IERG:
N/A	N/A	N/A	N/A	N/A

Environmental Hazards: None known.

Segregation of DGs: Not

Applicable Special Precautions:

None

known.

15. REGULATORY INFORMATION

- All the constituents of this chemical are listed on the Australian Inventory of Chemical Substances (AICS).
- Poisons Schedule (SUSDP): Not a scheduled poison.

16. OTHER INFORMATION

Prepared in accordance with:

- Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice [SWA: February 2016].

Date of Revision: 20/05/2022

Literary References / Data Sources:

SDS for ingredients.

HCIS.

CLID.

Legend to Abbreviations and Acronyms:

(Additional descriptions may be given at the end of the list.)

<	less than
>	greater than
ACGIH	American Conference of Governmental Industrial Hygienists.
ADG	(ADG Code) Australian Code for the Transport of Dangerous Goods by Road and Rail.
AICS	Australian Inventory of Chemical Substances
AOX	Adsorbable Organic Halides
approx.	approximately
AS	Australian Standard
Aus. / Aust.	Australia
BLV	Biological Limit Value
BOD	Biological Oxygen Demand
CAS Number	Chemical Abstracts Service number; a unique identifier assigned to chemicals by this organisation
CCID	Chemical Classification Information Database (HSNO – NZ)
CLID	Classification and Labelling Inventory Database (European Chemicals Agency)
cm ³	cubic centimetres
CO ₂	Carbon Dioxide
COD	Chemical Oxygen Demand
cPs	centipoise (measure of viscosity)
DG	Dangerous Goods
DOC	Dissolved Organic Carbon
EC ₅₀	Effective Concentration 50%: amount of a chemical in water, which causes a biological effect in 50% of a group of test animals
EC# / EC No	EC# and EC No refer to the unique seven-digit code allocated by the Commission of the European Communities. EINECS and ELINCS are older designations for EC#. Similar in function to, & often cross-referenced to, CAS Number.
ERMA	Environmental Risk Management Authority; New Zealand.
EU	European Union
g	gram
g/cc	grams per cubic centimetre
g/l	grams per litre
GHS	Globally Harmonised System
GHS	Classification according to Globally Harmonised System
HCIS	Hazardous Chemical Information Service – Australia (supercedes HSIS)
HSNO	Hazardous Substances and New Organisms Act; New Zealand.
HSNO	Classification according to HSNO
IATA-DGR	International Air Transport Association - Dangerous Goods Regulations
ICAO-TI	International Civil Aviation Organisation - Technical Instructions on Safe Transport of Dangerous Goods by Air.
IC ₅₀	Inhibition Concentration 50%: amount of a chemical in water, which inhibits growth (or other parameter) of 50% of a population of test organisms.
IERG	Initial Emergency Response Guide (detailed in SAA/SNZ HB76:1997 Dangerous Goods – Initial Emergency Response Guide).
IMDG	International Maritime Dangerous Goods Code.
IUCLID	International Uniform Chemical Information Database
kg	kilogram
kg/m ³	kilograms per cubic metre
LC ₅₀	LC stands for "Lethal Concentration". LC ₅₀ is the concentration of a chemical in air which causes the death of 50% (1/2) of a group of test animals. The chemical is inhaled over a set period of time, usually 1 or 4 hours.
LD ₅₀	LD = "Lethal Dose". LD ₅₀ is the amount of chemical, given all at once, which causes the death of 50% (1/2) of a group of test animals.
LTR – DG	Land Transport Rule – Dangerous Goods (N.Z.)
M - F	Monday - Friday
mg	milligram
mg/g	milligrams per gram
mg/kg	milligrams per kilogram
mg/l	milligrams per litre
mg/m ³	milligrams per cubic metre
ml	millilitre
mm	millimetre
mPa.s	milliPascal seconds (a measure of viscosity)
N/A	Not Allocated; Not Available; Not Applicable.
NICNAS	National Industrial Chemicals Notification and Assessment Scheme (Australia)
NZ	New Zealand
NZIoC	New Zealand Inventory of Chemicals
NZS	New Zealand Standard
PBT	persistent/bioaccumulative/toxic (REACH)
PG	Packing Group
PPE	Personal Protective Equipment
ppm	parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (EU)
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons (Australia)

SWA	Safe Work Australia
TLV	Threshold Limit Value
UN (No.)	United Nations (number)
vPvB	very persistent/very bioaccumulative (REACH)
w/v	Weight by volume
w/w	Weight by weight

Reason for issue: Format change and update

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. Craft Explosion P/L cannot anticipate or control the conditions under which this information may be used. Each user should review the information in the specific context of the intended application. Craft Explosion P/L will not be responsible for damages of any nature resulting from the use of or reliance upon this information. No expressed or implied warranties are given other than those implied by Commonwealth, State or Territory Legislation.

Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission, recommendation or authorization, given or implied, to practise any patented invention without a valid license.

Craft Explosion P/L shall not be responsible for any damage or injury resulting from: abnormal use of the chemical; any failure to adhere to recommendations; any hazards inherent in the nature of the chemical. Craft Explosion P/L expressly disclaims that the SDS is a representation or guarantee of the chemical specifications for the product.

ISSUE DATE: 20th May 2022