

Due duration of the	. 2702150
Product code	: 2793150 . Vollow 150
GHS product identifier	: Yellow 150 : Yellow 150
Trade name	
Relevant identified uses of t	he substance or mixture and uses advised against
Identified uses	
Colorant; Printing ink related	material; Printing Ink.
Manufacturer / Distributor	: Michael Harding Art Formulas Ltd
	Unit K Spingvale Ind Est,
	Cwmbran, Torfaen, NP44 5BE Phone: +44(0)1633484700
	accounts@michaelharding.co.uk
Emergency telephone	
number (with hours of	: +44(0)1633484700 (Mon-Thur 08:00-16:30, Fri 08:00-15:30)
operation)	
Section 2. Hazard	s identification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard
	(29 CFR 1910.1200).
Classification of the substance or mixture	: CARCINOGENICITY - Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	•
	: May cause cancer.
Precautionary statements	. Dend label before were lifered and of more buildings of the discussion of the disc
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing.
Response	: IF exposed or concerned: Get medical attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	<ul> <li>Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.</li> </ul>

### Safety Data Sheet PY150



## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

### CAS number/other identifiers

Ingredient name	CAS number	%
nickel, 5,5'-azobis-2,4,6(1h,3h,5h)-pyrimidinetrione complexes	68511-62-6	50 - 80

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/e	-
Potential acute health effect	
Eye contact	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
ndication of immediate med	ical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.



## Section 4. First aid measures

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

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Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	<ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</li> </ul>
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

Personal precautions, protecti	ive equipment and emergency procedures		
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Pro adequate ventilation. Wear appropriate respirator when ventilation is inadequate. on appropriate personal protective equipment.	ovide	
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any informa Section 8 on suitable and unsuitable materials. See also the information in "For no emergency personnel".		
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drain and sewers. Inform the relevant authorities if the product has caused environment pollution (sewers, waterways, soil or air).		
Methods and materials for containment and cleaning up			
Small spill	: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacua dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.	um	
Large spill	: Move containers from spill area. Approach release from upwind. Prevent entry in sewers, water courses, basements or confined areas. Avoid dust generation. Do dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a cl labeled waste container. Avoid creating dusty conditions and prevent wind disperse Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emer contact information and Section 13 for waste disposal.	not losed, sal.	
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## Section 7. Handling and storage

Precautions	for safe	handling
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Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### **Control parameters**

### Occupational exposure limits

Ingredient name nickel, 5,5'-azobis-2,4,6(1h,3h,5h)-pyrimidinetrione complexes		Exposure limits	Exposure limits	
		OSHA PEL 1989 (United States, 3/1989). TWA: 1 mg/m <sup>3</sup> , (as Ni) 8 hours. OSHA PEL (United States, 6/2016). TWA: 1 mg/m <sup>3</sup> , (as Ni) 8 hours.		
Appropriate engineering controls	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.		g controls	
Environmental exposure controls	they comply with the requirements	process equipment should be checked to of environmental protection legislation. In agineering modifications to the process equ ons to acceptable levels.	some	
Individual protection measu	ires			
Hygiene measures	eating, smoking and using the lava Appropriate techniques should be u	oroughly after handling chemical products, tory and at the end of the working period. used to remove potentially contaminated cl e reusing. Ensure that eyewash stations a on location.	lothing.	
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.			
Skin protection				
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## Section 8. Exposure controls/personal protection

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Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

## Section 9. Physical and chemical properties

Appearance		
Physical state	: Solid. [Powder.]	
Color	: Yellow	
Odor	: Odorless.	
Odor threshold	: Not applicable.	
рН	: Not tested	
Melting point	: Not available.	
Boiling point	: Not available.	
Flash point	: Not applicable.	
Evaporation rate	: Not tested	
Flammability (solid, gas)	: Not available.	
Lower and upper explosive (flammable) limits	: Not tested	
Vapor pressure	: Not available.	
Vapor density	: Not tested	
Relative density	: 1.98	
Solubility	: Insoluble in the following materials: cold water and hot water.	
Partition coefficient: n- octanol/water	: Not applicable.	
Auto-ignition temperature	: Not applicable.	
Decomposition temperature	: Not applicable.	
Viscosity	: Not tested	
VOC		
VOC % by W/W	: 0.0	
VOC % by V/V	: 0.0	
VOC Lbs./Gallon	: 0.0	
VOC Lbs./Gallon without Water and exempt solvents	: 0.0	



## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

Information on toxicological	ef	fects		
Acute toxicity				
Conclusion/Summary	:	No knowr	n significant	effects or critical hazards.
Irritation/Corrosion				
Conclusion/Summary				
Skin	:	No knowr	n significant	effects or critical hazards.
Eyes	:	No knowr	n significant	effects or critical hazards.
Respiratory	:	No knowr	n significant	effects or critical hazards.
Sensitization				
<b>Conclusion/Summary</b>				
Skin	:	No knowr	n significant	effects or critical hazards.
Respiratory	:	No knowr	n significant	effects or critical hazards.
Mutagenicity				
<b>Conclusion/Summary</b>	: No known significant effects or critical hazards.			
Carcinogenicity				
Conclusion/Summary	: Contains material which may cause cancer.			
<b>Classification</b>				
Product/ingredient name		OSHA	IARC	NTP
			4	Kaava ta ha a human aanin

Product/ingredient name	OSHA	IARC	NTP
nickel, 5,5'-azobis-2,4,6(1h, 3h,5h)-pyrimidinetrione complexes	+	1	Known to be a human carcinogen.

Reproductive toxicity	
<b>Conclusion/Summary</b>	: No known significant effects or critical hazards.
Teratogenicity	
<b>Conclusion/Summary</b>	: No known significant effects or critical hazards.
Specific target organ toxic	city (single exposure)
Not available.	
<b>Specific target organ toxic</b> Not available.	city (repeated exposure)

## Aspiration hazard

Not available.

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Section 11. Toxic	ological information
Information on the likely routes of exposure	: Not available.
Potential acute health effect	ts
Eye contact	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the ph	nysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: No specific data.
Ingestion	: No specific data.
Delayed and immediate effe	ects and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health e	ffects
General	: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Numerical measures of tox	icity
Acute toxicity estimates	

# RouteATE valueOral7902.5 mg/kg

## Section 12. Ecological information

### Toxicity

Not available.



## Section 12. Ecological information

Persistence and degradability	
Not available.	
Bioaccumulative potential	
Not available.	
Mobility in soil	

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### Section 14. Transport information DOT TDG Mexico IMDG IATA Classification Classification Classification **UN number** Not regulated. Not regulated. Not regulated. **UN proper** shipping name Not regulated. Not regulated. Transport hazard class(es) Packing group Environmental No. No. No. No. No. hazards Additional information

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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## Section 15. Regulatory information

TSCA 8(b) inventory U.S. Federal regulations : Listed

: Clean Water Act (CWA) 307: nickel, 5,5'-azobis-2,4,6(1h,3h,5h)-pyrimidinetrione complexes

### <u>SARA 313</u>

	Product name	CAS number	%
Supplier notification	Nickel Compounds	68511-62-6	50 - 80

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### Toxics in Packaging : In compliance.

### (CONEG)

### State regulations

### California Prop. 65

**WARNING**: This product can expose you to nickel, 5,5'-azobis-2,4,6(1h,3h,5h)-pyrimidinetrione complexes, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	Cancer	Reproductive	J	Maximum acceptable dosage level	%
nickel, 5,5'-azobis-2,4,6(1h,3h,5h)- pyrimidinetrione complexes	Yes.	No.	-	-	50 - 80

Canada inventory

: All components are listed or exempted.

### International regulations

······································	
International lists	: Australia inventory (AICS): All components are listed or exempted.
	China inventory (IECSC): All components are listed or exempted.
	Japan inventory (ENCS): All components are listed or exempted.
	Korea inventory: All components are listed or exempted.
	Malaysia Inventory (EHS Register): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
	Philippines inventory (PICCS): All components are listed or exempted.
	Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.
	Turkey inventory: Not determined.
	Europe Inventory: Please contact your supplier to get the information.



## Section 16. Other information

### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

<u>History</u> Date of issue/Date of revision	: 11/15/2019
Date of previous issue	: 9/18/2018
Version	: 3.01
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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