

Safety Data Sheet

Moly Orange

Ref: SDS29/3516	Issued Date: October 2018	Revision: 3.0
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1. Identification

Product Identifier: 29/3516
Trade Name: Spectrasperse Pigment Dispersion – **Moly Orange**
Recommended Use: Industrial Colour Concentrate
Manufacturer: Spectrum Colour Technologies Ltd
Address: 992 Waimate Highway, Otaio, Timaru RD1, South Canterbury, 7971, New Zealand
Telephone No: +64 (03) 612 6113
Email: paul@spectrumcolour.co.nz

2. Hazard(s) Identification

Hazard Classification – HSNO and GHS classification of the substance / mixture

Classified as Hazardous according to the criteria of the New Zealand Hazardous Substances and New Organisms (HSNO) Act 2001 and the New Zealand Health and Safety at Work (Hazardous Substances) Regulations 2017.

Pictograms	
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Signal Word:	Danger
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HSNO	Statement
6.6B	Suspected human mutagens
6.7A	Known or presumed human carcinogens
6.9B(Rep)	Harmful to human target organs or systems
9.1A	Very ecotoxic in the aquatic environment

GHS	Class
Category 2	Germ cell mutagenicity
Category 1	Carcinogenicity
Category 2	Specific target organ toxicity (repeated exposure)
Category 1	Aquatic toxicity (Acute / Chronic)

Hazard Statement(s)

H341	Suspected of causing genetic defects
H350	May cause cancer
H373	May cause damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects

Prevention Precautionary Statement(s)

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P281	Use personal protective equipment as required
P260	Do not breathe fumes/vapours
P273	Avoid release to the environment

Response Precautionary Statement(s)


P308+313	IF exposed or concerned: Get medical advice/attention
P314	Get medical advice/attention if you feel unwell
P391	Collect spillage

Storage Precautionary Statement(s)

P405	Store locked up
	Use Good Handling and Storage Systems

Disposal Precautionary Statement(s)

P501	Dispose of contents/container in accordance with local, regional, national and international regulations
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Dangerous Goods for Transport		Classified as Dangerous Goods for transport according to the criteria of the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land. Class 9 - Miscellaneous hazardous substances - Environmentally hazardous and/or marine pollutant Refer to section 14 for further transport information.
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3. Composition / Information on Ingredients

Ingredients

Name	CAS	Proportion
Lead Chromate	12656-85-8	40-60%
Ingredients determined not to be hazardous	-	To balance

Note: It has been determined that hazards associated with the above raw materials are above the threshold level and therefore the final product is deemed hazardous according to the criteria of the New Zealand Hazardous Substances and New Organisms (HSNO) Act 2001 and the New Zealand Health and Safety at Work (Hazardous Substances) Regulations 2017.

4. First Aid Measures

Inhalation

Move to fresh air. Remove contaminated clothing. If symptoms develop and persist, seek medical attention.

Skin

Flush skin with water. Remove contaminated clothing and wash before re-use. If irritation occurs, seek medical advice.

Eye

Immediately rinse with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Remove contact lenses if able to do so and continue flushing eyes with running water. If symptoms persist, seek medical attention.

Ingestion

DO NOT induce vomiting. Rinse mouth with water. Give a glass of water to drink. If vomiting occurs give further water. If symptoms develop, seek medical attention.

Symptoms / Effects

No specific symptoms.

Medical Attention and Special Treatment:

Treat symptomatically.

NZ Poisons Centre 0800 POISON (0800 764 766)

5. Fire Fighting Measures

General Fire Hazards

This product is not flammable.

Suitable Extinguishing Media

Do not use water jet-stream. Use fire extinguishing media and methods suitable to surrounding conditions, but water fog / fine water spray, foam and dry agent are recommended.

Specific Hazards from Product

A component of this product may emit toxic and/or irritating fumes and gasses including: carbon monoxide, carbon dioxide, oxides of nitrogen and oxides of sulphur.

Precautions in connection with Fire

As in any fire, Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers.

6. Accidental Release Measures

Personal Precautions

Avoid contact with skin, eyes or clothing. Wear appropriate personal protective equipment and clothing, as described in section 8 Personal Protection, to minimise exposure. Increase ventilation.

Environmental Precautions

Keep spills (and as much as possible cleaning runoffs) from entry into the waterways.

Methods and Materials for Containment and Cleaning Up

If possible contain the spill. Place an inert absorbent material onto spillage. Collect the material and place into suitable labelled container. Dispose of waste according to federal, Environmental Protection Authority and state regulations.

7. Handling and Storage

Precautions for Safe Handling

Use in a well-ventilated area. Wear appropriate protection to avoid exposure. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Use good hygiene and safety practices.

Conditions for Safe Storage

Store in a cool, dry well-ventilated area away from heat and store out of direct sunlight. Store away from foodstuffs. Avoid extremes of temperatures. Keep containers closed when not in use and securely sealed and protected against physical damage. Refer to section 10.

8. Exposure Controls and Personal Protection

National Exposure Standards for Mixture

No exposure standards have been established for this product by the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour, however exposure limits for the hazardous component are as follows:

Substance	Regulations	Exposure Duration	Exposure Limit	Units
Lead chromate (as Cr)	As published by Dept of Labour NZ	WES-TWA	0.05	mg/m ³
Lead, inorganic dusts & fumes (as Pb)	As published by Dept of Labour NZ	WES-TWA	0.1	mg/m ³
Lead	As published by Dept of Labour NZ	WES-TWA	0.05	mg/m ³
Chromium (Cr)	As published by Dept of Labour NZ	WES-TWA	0.012	mg/m ³

WES-TWA (Workplace Exposure Standard – Time Weighted Average). The time-weighted average exposure standard designed to protect the worker for the effects of long-term exposure.

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. These 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 and SDS 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.

Engineering Controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the potential hazard. Use with good general ventilation. If mists or vapours are produced local exhaust ventilation should be used.



Eye Protection

Chemical safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken.

Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling and according to risk assessments undertaken.

Body Protection

Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated, and safety shoes. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used, suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision.

9. Physical and Chemical Properties

Appearance	Orange coloured liquid	Explosive limits	Not Available
Odour	Mild	Vapour pressure (kPa)	Not Available
Odour Threshold	Not Available	Solubility in water (g/L)	Insoluble
pH	Not Available	Vapour density (Air=1)	Not Available
Melting / Freezing point (°C)	Not Available	Relative density (Water=1)	~1.9
Initial boiling point and boiling range (°C)	Not Available	Partition coefficient n-octanol/water	Not Available
Flash point (°C)	Not Available	Auto-ignition temperature (°C)	Not Available
Evaporation rate	Not Available	Decomposition temperature	Not Available
Flammability	Not Available	Viscosity (cSt)	Not Available

10. Stability and Reactivity

Reactivity

No relevant information available.

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous polymerisation will not occur.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

Strong acids. Strong bases. Strong oxidising agents.

Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes.

11. Toxicological Information

Toxicology Information

No toxicology data available for this product. No adverse effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Inhalation

Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

Ingestion

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Skin

Causes mild skin irritation. May cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

Eye

Causes serious eye irritation. On eye contact: may cause tearing, stinging, blurred vision and redness.

Chronic Effects

Carcinogenicity - A component of this product is suspected of causing cancer. Classified as a suspected human carcinogen 6.7B

12. Ecological Information

Ecotoxicity

No ecological data is available for this material however it would be regarded as a long-term marine pollutant.

Persistence / Degradability

No relevant information available for this product, however an hazardous component of the product states: Not readily biodegradable.

Bioaccumulative potential

No relevant information available for this product, however an hazardous component of the product states: Risk of bioaccumulation in an aquatic species is high.

Mobility in the Soil

No relevant information available.

Other Adverse Effects / Environment Protection

Avoid contaminating waterways.

13. Disposal Considerations



Disposal Considerations

Dispose of waste product and contaminated packaging according to regional, national and Environmental Protection Authority regulations. Persons conducting disposal should ensure that appropriate personal protection is used.

14. Transport Information

Transport Information

In respect to: Land Transport NZ / Marine Transport IMDG / Air Transport IATA/ICAO

Dangerous Goods for Transport		<p>Classified as Dangerous Goods for transport according to the criteria of the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.</p> <p>Class 9 - Miscellaneous hazardous substances - Environmentally hazardous and/or marine pollutant</p>
		<p>Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.</p> <p>IMDG Marine Pollutant: Yes IMDG Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (LEAD CHROMATE) SOLUTION MARINE POLLUTANT</p>
		<p>Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.</p>

UN Number	Proper Shipping Name	Class	Packing Group	Hazchem Code
3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (LEAD CHROMATE) SOLUTION	9	III	3Z

Special Precautions for User:	None.
Transport in Bulk:	Consult IMO regulations before transporting ocean bulk. Transport in bulk according to MARPOL 73/78 and the IBC Code.
Info:	This information is not intended to convey all specific regulatory or operational requirements / information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. Regulatory Information

Regulatory Information

Classified as Hazardous according to the criteria of the New Zealand Hazardous Substances and New Organisms (HSNO) Act 2001 and the New Zealand Health and Safety at Work (Hazardous Substances) Regulations 2017.

EPA Group Standard	Surface Coatings and Colourants (Toxic [6.7]) Group Standard 2017
HSNO Approval Number	HSR002679

16. Other Information

Date of Preparation / Last Revision of SDS

Date of Issue	October 2018
Version	3.0
Reason for Issue	Updated supplier SDS
SDS Superseded	May 2018 v2.1

Contact Person / Point

For specialist advice in emergencies: 0800 POISON (0800 764 766) NZ Poisons and Hazardous Chemicals
0800 154 666 NZ Emergency Response
111 NZ Fire Service

NOTE: This SDS summarizes our best knowledge of the health and safety hazards of the manufactured product and how to safely handle and use this product in the workplace based on suppliers' raw material safety data sheets and current legislation. 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 its use in conjunction with other products.