

Material Safety Data Sheet



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: 371-LINE METALSHIELD QD ENAMEL TOPCOAT (LEAD FREE)

Recommended Use: Industrial paint. Applied by spray.

Supplier: Dulux Australia
ABN: 004 117 828
Street Address: McNaughton Road,
Clayton South, Victoria
Australia

Telephone Number: +61 3 9263 5678
Facsimile: +61 3 9543 4346

Emergency Telephone: 1 800 033 111 (ALL HOURS)

2. HAZARDS IDENTIFICATION

This material is hazardous according to criteria of NOHSC; HAZARDOUS SUBSTANCE.

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

Risk Phrases: Highly Flammable. Harmful by inhalation and in contact with skin. Irritating to skin.

Safety Phrases: Keep away from sources of ignition - No Smoking. Avoid contact with eyes. Do not empty into drains. In case of insufficient ventilation, wear suitable respiratory equipment.

Poisons Schedule: None allocated.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components / CAS Number	Proportion	Risk Phrases
Synthetic polymer(s)	30-60%	-
-		
Pigments	10-<30%	-
-		
Xylene 1330-20-7	10-<30%	R10 R20/21 R38
Solvent naphtha (petroleum), light arom. 64742-95-6	10-<30%	R65
Toluene 108-88-3	10-<30%	R11, R20

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Hydrocarbon liquid, aliphatic petroleum distillates 64742-88-7	10-<30%	R65
Mineral turpentine	1-<10%	R10, R38, R65
-		
White spirit (Stoddard solvent) 8052-41-3	1-<10%	R65
Solvent naphtha (petroleum), light aliph. 64742-89-8	1-<10%	R65
Additives	to 100%	-
-		

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (Phone eg. Australia 131 126; New Zealand 0 800 764766) or a doctor.

Inhalation: Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discoloration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice.

Skin Contact: If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye Contact: If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

Medical attention and special treatment: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazards from combustion products: Highly flammable liquid. On burning will emit toxic fumes.

Precautions for fire fighters and special protective equipment: Keep containers cool with water spray. If safe to do so, remove containers from path of fire. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Suitable Extinguishing Media: Foam, dry agent (carbon dioxide, dry chemical powder).

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Hazchem Code: 3[Y]E

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures: If contamination of sewers or waterways has occurred advise local emergency services.

Methods and materials for containment and clean up: Shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

7. HANDLING AND STORAGE

Conditions for safe storage: Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

Precautions for safe handling: Avoid skin and eye contact and breathing in vapour, mists and aerosols. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke. May form flammable vapour mixtures with air. Take precautionary measures against static discharges. Vapour may travel a considerable distance to source of ignition and flash back.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:
No value assigned for this specific material by the National Occupational Health and Safety Commission. However, Exposure Standard(s) for constituent(s):

- Mineral turpentine: 8hr TWA = 480 mg/m³
- Toluene: 8hr TWA = 191 mg/m³ (50 ppm), 15 min STEL = 574 mg/m³ (150 ppm), Sk
- White spirits: 8hr TWA = 790 mg/m³
- Xylene (o-, m-, p- isomers): 8hr TWA = 350 mg/m³ (80 ppm), 15 min STEL = 655 mg/m³ (150 ppm)

As published by the National Occupational Health and Safety Commission.

No Exposure Standards assigned to other constituents.

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 work day. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

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'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. 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.

Engineering controls:

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

Personal Protective Equipment:

The selection of PPE is dependant on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Orica Personal Protection Guide No. 1, 1998: G - OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, RESPIRATOR.

Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Viscous liquid
Colour:	Coloured
Odour:	Solvent
Solubility:	Soluble in organic solvents. Insoluble in water.
Specific Gravity:	1-1.2 @20°C
Relative Vapour Density (air=1):	>1
Vapour Pressure (20 °C):	N Av
Flash Point (°C):	-1
Flammability Limits (%):	N Av
Autoignition Temperature (°C):	N Av
% Volatile by Volume:	N Av
Solubility in water (g/L):	Negligible
Melting Point/Range (°C):	N App
Boiling Point/Range (°C):	N Av
Decomposition Point (°C):	N Av
pH:	N App
Viscosity:	N Av
Evaporation Rate:	N Av

10. STABILITY AND REACTIVITY

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Chemical stability: Stable under normal conditions of use.

Conditions to avoid: Avoid exposure to heat, sources of ignition, and open flame.

Incompatible materials: Incompatible with oxidising agents.

Hazardous decomposition products: Oxides of carbon.

Hazardous reactions: None known.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is showing signs of central system depression (like those of drunkenness) there is greater likelihood of the patient breathing in vomit and causing damage to the lungs. Breathing in vomit may lead to aspiration pneumonia (inflammation of the lung).

Eye contact: May be an eye irritant.

Skin contact: Contact with skin will result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Inhalation: Material may be irritant to the mucous membranes of the respiratory tract (airways). Breathing in vapour can result in headaches, dizziness, drowsiness, and possible nausea. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Long Term Effects:

No information available for the product. For Toluene (1) : Evidence indicates that repeated or prolonged exposure to this chemical could result in effects on the central nervous system.

Toxicological Data:

No LD50 data available for the product. The toxicity of the product may be attributed to the solvents it contains. Additive effects may occur with mixtures of solvents. Similar effects can occur where the consumption of alcohol is also involved. For the constituent Toluene (1):

Oral LD50 (rat): 636 mg/kg
Dermal LD50 (rabbit): 14100 uL/kg
SKIN: Moderate irritant (rabbit).
EYES: Moderate irritant (rabbit).

12. ECOLOGICAL INFORMATION

Ecotoxicity Avoid contaminating waterways.

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13. DISPOSAL CONSIDERATIONS

Disposal methods: Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Advise flammable nature. Normally suitable for incineration by an approved agent.

Avoid spontaneous combustion of contaminated rags and other easily ignitable accumulations (such as spray booth residues) by immediate immersion in water. Emptied containers may retain residues of product. Do not cut, puncture or weld on or near the container.

14. TRANSPORT INFORMATION

Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

UN No: 1263
Class-primary: 3 Flammable Liquid
Packing Group: II
Proper Shipping Name: PAINT

Hazchem Code: 3[Y]E

Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN No: 1263
Class-primary: 3 Flammable Liquid
Packing Group: II
Proper Shipping Name: PAINT

Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No: 1263
Class-primary: 3 Flammable Liquid
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15. REGULATORY INFORMATION

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Classification: This material is hazardous according to criteria of NOHSC; HAZARDOUS SUBSTANCE.
Xn: Harmful
Xi: Irritant

Risk Phrase(s): R11: Highly Flammable.
R20/21: Harmful by inhalation and in contact with skin.
R38: Irritating to skin.

Safety Phrase(s): S16: Keep away from sources of ignition - No smoking.
S25: Avoid contact with eyes.
S29: Do not empty into drains.
S38: In case of insufficient ventilation, wear suitable respiratory equipment.

Poisons Schedule: None allocated.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

(1) Material Safety Data Sheet - Orica Australia Pty Ltd; 07/ 2004.

This material safety data sheet has been prepared by SH&E Shared Services, Orica.

Reason(s) for Issue:
Format change
Change in Exposure Controls

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Orica Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Orica representative or Orica Limited at the contact details on page 1.

Orica Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

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