

1. Product and company identification

Product name 2711A
Product code Part#: 130255/41990716
Supplier Olympus Australia Pty Ltd
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Recommended use and Limitations on use

Recommended use Test sample.

2. Hazards identification

GHS classification

Physical hazards	Not classified.	
Health hazards	Carcinogenicity	Category 1B
	Reproductive toxicity	Category 1A
	Specific target organ toxicity following repeated exposure	Category 2 (Blood, Kidney, Liver, Nervous system)
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3

Label elements

Symbols



Signal word

Danger

Hazard statement

May cause cancer. May damage fertility or the unborn child. May cause damage to organs (Blood, Kidney, Liver, Nervous system) through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Avoid release to the environment. Use personal protective equipment as required.
Response	IF exposed or concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients

Substance or mixture Mixture

Chemical property	CAS Number	Concentration (%)
Lead compounds	-	< 1

4. First aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth thoroughly. Get medical attention if symptoms occur.

Potential delayed effects	Dusts may irritate the respiratory tract, skin and eyes. Prolonged exposure may cause chronic effects.
Personal protection for first-aid responders	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
Notes to physician	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Fire-fighting measures

Extinguishing media	Use extinguishing agent suitable for type of surrounding fire.
Extinguishing media to avoid	None known.
HAZCHEM Code Number	None.
Specific hazards during fire fighting	During fire, gases hazardous to health may be formed.
Special fire fighting procedures	Use water spray to cool unopened containers.
Protection of fire-fighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Hazards from combustion products	None.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep upwind. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Local authorities should be advised if significant spillages cannot be contained. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
Spill cleanup methods	Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Handling

Precautions	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimise dust generation and accumulation. Do not breathe dust. Pregnant or breastfeeding women must not handle this product. Avoid release to the environment.
Safe handling advice	Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wash thoroughly after handling.
Prevention of fire and explosion	Provide adequate ventilation.
Local and general ventilation	Provide appropriate exhaust ventilation at places where dust is formed.

Storage

Suitable storage conditions	Store locked up. Keep container tightly closed. Store in a well-ventilated place.
Incompatible materials	None known.
Safe packaging materials	Store in original tightly closed container.

8. Exposure controls/personal protection

Workplace exposure limits

New Zealand. WES. (Workplace Exposure Standards)

Components	Type	Value	Form
Lead compounds (CAS -)	TWA	0.1 mg/m3	Dust and fume.

US. ACGIH Threshold Limit Values

Components	Type	Value
Lead compounds (CAS -)	TWA	0.05 mg/m3

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value	Form
Lead compounds (CAS -)	TWA	0.15 mg/m3	Dust and fume.

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value	Form
Lead compounds (CAS -)	TWA	0.15 mg/m ³	Dust and fume.

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling time
Lead compounds (CAS -)	300 µg/l	Lead	Blood	*

* - For sampling details, please see the source document.

Engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection

Wear respirator with dust filter.

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Skin protection

Wear suitable protective clothing.

Eye/face protection

Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.

Radioactive or thermal hazards

Follow standard monitoring procedures.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.

9. Physical and chemical properties

Appearance

Physical state

Solid.

Form

Powder.

Colour

Grey.

Odour

Not available.

Odour threshold

Not available.

pH

Not applicable.

Melting point/freezing point

Not available.

Boiling point, initial boiling point, and boiling range

Not available.

Flash point

Not available.

Auto-ignition temperature

Not available.

Flammability (solid, gas)

Non flammable.

Flammability limit - lower (%)

Not available.

Flammability limit - upper (%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit – upper (%)

Not available.

Vapour pressure

Not available.

Vapour density

Not available.

Evaporation rate

Not available.

Relative density

Not available.

Density

Not available.

Solubility(ies)

Solubility (water)

Insoluble in water.

Partition coefficient (n-octanol/water)

Not available.

Decomposition temperature

Not available.

Other data

Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Stability	Material is stable under normal conditions.
Conditions to avoid	Avoid dust formation.
Incompatible materials	Strong oxidising agents. Halogens. Peroxides. Acids.
Hazardous decomposition products	Lead oxides.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. Dust may irritate respiratory system.
Skin contact	Dust or powder may irritate the skin.
Eye contact	Dust may irritate the eyes.
Acute toxicity	May cause discomfort if swallowed.
Routes of exposure	Inhalation. Skin contact. Eye contact.
Symptoms	Dusts may irritate the respiratory tract, skin and eyes.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory sensitizer	Not a respiratory sensitiser.
Skin sensitizer	This product is not expected to cause skin sensitisation.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Lead compounds (CAS -) 2A Probably carcinogenic to humans.

Toxic to reproduction	May damage fertility or the unborn child.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	May cause damage to organs (Blood, Kidney, Liver, Nervous system) through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.
Relevant negative data	Not available.

12. Ecological information

Ecotoxicity	Harmful to aquatic life with long lasting effects.
Persistence and degradability	No data available.
Bioaccumulation	No data available.
Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.
Mobility	No data available.
Other hazardous effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

14. Transport information

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

Applicable regulations HSNO: 6.7A, 6.8A, 6.9B, 9.1C, 9.1D
HSNO - Laboratory Chemicals and Reagent Kits Group Standard 2006 [HSR002596]

16. Other information

References Not available.

Issued by

Company name Olympus

Prepared by

Title Olympus

Disclaimer

Olympus cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

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