Issue date: 15-April-2016 Revision date: -Supersedes date: -Version number: 01

SAFETY DATA SHEET



1. Identification of the product

GHS product identifier	2711A			
Other means of identification				
Product code	Part#: 130255/41990716			
Recommended use of the chemical and restrictions on use				
Recommended use	Test sample.			
Recommended restrictions	None known.			
Suppliers details				
Supplier	Olympus			
Address	48 Woerd Ave. Waltham, MA 02453, USA			
Telephone	+1 781-419-3900			
Emergency telephone number	CHEMTREC			
	US: 1 900 424 0200 International: 1 702 527 2897			

US: 1-800-424-9300, International: +1 703-527-3887

2. Hazard identification

Classification of the substance or mixture

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

GHS label elements, including precautionary statements



Signal word	Danger
Hazard stateme	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	tement
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.
Other hazards which result in classificat	
Supplemental infor	tion None.

3. Composition/information on ingredients

Mixtures

Chemical identity	Common name(s), synonym(s)	CAS number and other unique identifiers	Concentration
Lead compounds		-	< 1
I. First-aid measures			
Description of necessary first-a	id measures		
Inhalation	Move to fresh air. Call a physician if sympto	oms 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.		
lost important ymptoms/effects, acute and elayed	Dusts may irritate the respiratory tract, skin and eyes. Prolonged exposure may cause chronic effects.		
ndication of immediate nedical attention and special reatment needed	Provide general supportive measures and t Symptoms may be delayed.	reat symptomatically. Keep victir	n under observatio
General information	IF exposed or concerned: Get medical advi of the material(s) involved, and take precau sheet to the doctor in attendance.		
5. Fire-fighting measures			
uitable extinguishing media	Use extinguishing agent suitable for type of	surrounding fire.	
Insuitable extinguishing nedia	None known.		
pecific hazards arising from he chemical	During fire, gases hazardous to health may	be formed.	
pecial protective actions for refighters	Self-contained breathing apparatus and full	protective clothing must be worr	n in case of fire.
ire fighting quipment/instructions	Use water spray to cool unopened containe	ers.	
pecific methods	Use standard firefighting procedures and co	onsider the hazards of other invo	lved materials.
eneral fire hazards	No unusual fire or explosion hazards noted		

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel	Keep unnecessary personnel away. Keep upwind. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Local authorities should be advised if significant spillages cannot be contained. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in 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.
Methods and materials for containment and cleaning up	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	

Precautions to ensure safe handling
 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Should be handled in closed systems, if possible. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Wash thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
 Conditions for safe storage, including any incompatibilities

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Dominican Republic. OELs (Regulation of Safety and Health in the Workplace - Decree No. 522-06 and Resolution No. 04-2007 of January 30, 2007) updated with ACGIH

Components		Туре	v	alue
Lead compounds (CAS -)		TWA	0	.05 mg/m3
US. ACGIH Threshold Lin	nit Values			
Components		Туре	v	alue
Lead compounds (CAS -)		TWA	0	.05 mg/m3
iological limit values				
ACGIH Biological Exposu	re Indices			
Components	Value	Determinant	Specimen	Sampling Time
Lead compounds (CAS -)	300 µg/l	Lead	Blood	*
* - For sampling details, ple	ase see the sourc	e document.		
ontrol banding approach	Not available.			
dividual protection measure	engineering n Occupational es, such as perso	neasures are not suffic Exposure Limit (OEL),	ient to maintain co suitable respirato	irborne levels to an acceptable level. If oncentrations of dust particulates below th ory protection must be worn.
Eve/face protection	Wear safety of	plasses with side shield		ve wash fountain is recommended.
Eye/face protection	Wear safety ç	plasses with side shield		ve wash fountain is recommended.
-			ls (or goggles). Ey	ve wash fountain is recommended. gloves can be recommended by the glove
Eye/face protection Skin protection	Wear appropr supplier.		ls (or goggles). Ey	
Eye/face protection Skin protection Hand protection	Wear appropr supplier. Wear suitable	riate chemical resistan	ls (or goggles). Ey	
Eye/face protection Skin protection Hand protection Other	Wear appropr supplier. Wear suitable Wear respirat	riate chemical resistant protective clothing.	ls (or goggles). Ey gloves. Suitable	gloves can be recommended by the glove

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Powder.
Color	Gray.
Odor	Not available.
Odor threshold	Not available.
рН	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Non flammable.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.

Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

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

11. Toxicological information

Information on likely routes of exposure

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.		
Ingestion	Expected to be a low ingestion hazard.		
Symptoms	Dusts may irritate the respiratory tract, skin and eyes.		
Information on toxicological effect	ts		
Acute toxicity	May cause discomfort if swallowed.		
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.		
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.		
Respiratory or skin sensitization			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate proc mutagenic or genotoxic.	duct or any components present at greater than 0.1% are	
Carcinogenicity	May cause cancer.		
ACGIH Carcinogens			
Lead compounds (CAS -)		3 Confirmed animal carcinogen with unknown relevance to umans.	
IARC Monographs. Overall E	valuation of Carcinogenicity		
Lead compounds (CAS -)	2	A Probably carcinogenic to humans.	
Reproductive toxicity	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.
Other information	Not available.

12. Ecological information

Ecotoxicity	Harmful to aquatic life with long lasting effects.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse 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	
Disposal instructions	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.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

ANTT

Not regulated as dangerous goods.

DOT

Not regulated as dangerous goods.

SCT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

2711A

Not regulated as dangerous goods.

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

15. Regulatory information

International regulations

Montreal Protocol Not applicable. Stockholm Convention Not applicable. Rotterdam Convention Not applicable. Kyoto protocol Not applicable. Basel Convention Not applicable.

International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No
*A "Vaa" indicates this product of	α	

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information	
Revision date	-
List of abbreviations	Not available.
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.