OLYMPUS

SAFETY DATA SHEET

1. Identification

Name of the substance or

2711A

mixture (trade name) **Product code**

Part#: 130255/41990716

Major recommended uses for

Test sample.

the substance or mixture

Specific restrictions for use of

Not available.

the substance or mixture

Manufacturer/Importer/Distributor information

Manufacturer

Olympus Supplier

48 Woerd Ave. Waltham, MA 02453, USA **Address**

Telephone +1 781-419-3900 CHEMTREC **Emergency telephone**

number

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

2. Hazards 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 Category 2 (Blood, Kidney, Liver, Nervous

exposure

system)

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Category 3

Environmental hazards Hazardous to the aquatic environment, acute

Category 3

Hazardous to the aquatic environment, long-term hazard

GHS labeling elements, including precautionary statements

Hazard symbol(s)



Signal word

May cause cancer. May damage fertility or the unborn child. May cause damage to organs (Blood, Hazard statement(s)

Kidney, Liver, Nervous system) through prolonged or repeated exposure. Harmful to aquatic life

with long lasting effects.

Precautionary statement(s)

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. Wear protective

gloves/protective clothing/eye protection/face protection.

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 do not result in classification

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixture

Common chemical name or technical name	CAS number	Concentration or concentration range
Lead compounds	-	< 1

4. First-aid measures

First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation

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.

Rinse mouth thoroughly. Get medical attention if symptoms occur. Ingestion

Most important

symptoms/effects, acute and

delayed

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

Dusts may irritate the respiratory tract, skin and eyes. Prolonged exposure may cause chronic

sheet to the doctor in attendance.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Notes to physician

Use extinguishing agent suitable for type of surrounding fire.

Symptoms may be delayed.

effects.

5. Fire-fighting measures

Means of fire extinguishing

Suitable extinguishing

media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special fire fighting

procedures

Use water spray to cool unopened containers.

Protective measures taken by

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

firefighting crews

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

None known.

6. Control measures for spills and leaks

Personal precautions, protective equipment and emergency procedures

To be taken by those who are not involved in rendering emergency

services To be taken by those who

are involved in rendering emergency services

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.

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 for 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 Store in a well-ventilated place. Store locked up. Store in original tightly closed container.

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8. Exposure controls/personal protection

Control parameters

Product name: 2711A

Follow standard monitoring procedures.

Occupational exposure limits

US. ACGIH Threshold Limit Values

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

Argentina. OELs. Law 19587 (Establishing the Conditions for Health and Safety in the Workplace) and Decree 351/79 Article 61, Annex III, as amended

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

Chile. OELs. Decree No. 594, arts. 61 & 66: Regulating Basic Health and Environmental Conditions in the Workplace and Setting Permissible Levels of Exposure to Chemical and Physical Agents

Components	Туре	Value	Form	
Lead compounds (CAS -)	TWA	0.04 mg/m3	Dust and fume.	

Ecuador. OELs (INEN 2266:2013, 2013-01 2nd rev.: Transport, storage and handling of hazardous materials. Requirements. 1st ed., 1/29, 2013)

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

Paraguay. Decree No. 14.390/92 that approves the General Technical Regulation of Safety, Hygiene and Medicine in the Workplace

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

Peru. OELs. Decreto Supremo 015-2005-SA (Reglamento sobre Valores Límites Permisibles para Agentes Químicos en el Ambiente de Trabajo)

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

Venezuela. OELs. (COVENIN 2253: Permissible Environmental Concentration Limits for Chemical Substances in **Workplaces and Biological Exposure Indices)**

Components	Туре	Value
Lead compounds (CAS -)	TWA	0.05 ppm

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.

Argentina. Biological Exposure Indexes (BEIs) (Decree 351/1979)

Components	Value	Determinant	Specimen	Sampling Time
Lead compounds (CAS -)	30 μg/dl	Plomo	Blood	*

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

Venezuela. Biological Exposure Indices (IBEs), Table 2, COVENIN 2253

Components	Value	Determinant	Specimen	Sampling Time
Lead compounds (CAS -)	30 μg/dl	Plomo	Blood	*

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

Appropriate 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 Occupational Exposure Limit (OEL), suitable respiratory protection must be worn.

Personal protective measures

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

Skin protection

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

supplier.

Other Wear suitable protective clothing. Respiratory protection Wear respirator with dust filter.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Always observe good personal hygiene measures, such as washing after handling the material Hygiene measures

> 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. Color Gray.

Odor Not available. Not available. **Odor threshold** Not applicable. pН Not available. Melting point/freezing point Initial boiling point and boiling Not available.

temperature range

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Non flammable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%) (%)

Not available.

Not available. **Explosive limit - lower (%)** Explosive limit - upper (%) Not available. Vapor pressure Not available. Not available. Vapor density

Relative density Not available. Solubility(ies) Insoluble in water. Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. **Viscosity** Not available.

Other physical and chemical parameters

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

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.

Dust may irritate the eyes. Eye contact

Ingestion Expected to be a low ingestion hazard.

Dusts may irritate the respiratory tract, skin and eyes. **Symptoms**

Acute toxicity May cause discomfort if swallowed.

Skin irritation and corrosion Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

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 product or any components present at greater than 0.1% are

mutagenic or genotoxic.

May cause cancer. Carcinogenicity

ACGIH Carcinogens

Lead compounds (CAS -) A3 Confirmed animal carcinogen with unknown relevance to

humans.

Argentina. OELs. Law 19587 (Establishing the Conditions for Health and Safety in the Workplace) and Decree 351/79

Article 61, Annex III, as amended

Lead compounds (CAS -) A3 Confirmed animal carcinogen with unknown relevance to

humans.

Chile. OELs. Decree No. 594, arts. 61 & 66: Regulating Basic Health and Environmental Conditions in the Workplace and Setting Permissible Levels of Exposure to Chemical and Physical Agents

Lead compounds (CAS -) A3 Confirmed animal carcinogen with unknown relevance to

humans.

Colombia. OELs. Resolution No. 02400: Norms Concerning Working Conditions, Health and Safety in the Workplace

Lead compounds (CAS -) A3 Animal carcinogen.

Ecuador. OELs (INEN 2266:2013, 2013-01 2nd rev.: Transport, storage and handling of hazardous materials.

Requirements. 1st ed., 1/29, 2013)

Lead compounds (CAS -) Group A3 Confirmed animal carcinogen with unknown relevance

to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

Paraguay. Decree No. 14.390/92 that approves the General Technical Regulation of Safety, Hygiene and Medicine in the

Workplace

Lead compounds (CAS -) A3 Confirmed animal carcinogen with unknown relevance to

humans.

Venezuela. OELs. (COVENIN 2253: Permissible Environmental Concentration Limits for Chemical Substances in **Workplaces and Biological Exposure Indices)**

Lead compounds (CAS -) A3 Animal carcinogen.

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.

May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may **Chronic effects**

be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects. 932030 Version #: 01 Issue date: 15-April-2016 Revision date: -

Persistence and degradability

No data available

Bioaccumulative potential

No data available.

Partition coefficient

Bioconcentration factor

n-octanol / water (log Kow)

(BCF)

Not available.

Not available.

Mobility in soil Other adverse effects

No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

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13. Considerations on final disposal

Recommended methods for final destination

Dispose of in accordance with local regulations. Residual waste

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.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow Local disposal regulations

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.

14. Transport information

National regulations

ANTT

Not regulated as dangerous goods.

International regulations

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

Federal regulations

Chile. Decree No. 594, art. 20: List of Hazardous Wastes that must be Registered with the Sanitary Authority

Lead compounds (CAS -)

International regulations

Montreal Protocol

Not applicable.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

Significant information, yet not specifically related to the

Not available

previous sections Legends and 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.