

**LAPONITE-XLS XR**

Product code: 00000000000110748

Version 2.0 SDS\_APJ\_MY

Revision Date 14.08.2024

Print Date 21.08.2024

**SECTION 1: Identification of the hazardous chemical and of the supplier****Product identifier**

Product name : LAPONITE-XLS XR

Recommended use : Rheology Additive

**Manufacturer or supplier's details**

Company : BYK-Chemie GmbH

Address : Abelstrasse 45  
46483 Wesel

Telephone : +49 281 670-23532

Telefax : +49 281 670-23533

E-mail address : GHS.BYK@altana.com

Emergency telephone number : +60 3 6207 4347 (Malay and English)  
+65 3158 1074 (All languages)**SECTION 2: Hazards identification****Classification of the hazardous chemical**

Not a hazardous substance or mixture.

**Label elements**

Not a hazardous substance or mixture.

**Other hazards which do not result in classification**

Material can be slippery when wet.

**SECTION 3: Composition and information of the ingredients of the hazardous chemical**

Substance / Mixture : Mixture

Chemical nature : Synthetic (modified) phyllosilicate

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
tetrasodium pyrophosphate	7722-88-5	>= 7 -< 10

**SECTION 4: First aid measures**

General advice : Do not leave the victim unattended.

If inhaled : If breathed in, move person into fresh air.  
If unconscious, place in recovery position and seek medical advice.In case of skin contact : Wash off with soap and water.  
Get medical attention immediately if irritation develops and persists.

In case of eye contact : Flush eyes with water as a precaution.

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		Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	:	No symptoms known or expected. Irritating to eyes, respiratory system and skin.
Notes to physician	:	Treat symptomatically.

### SECTION 5: Firefighting measures

#### Extinguishing media

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water Foam Carbon dioxide (CO <sub>2</sub> ) Dry chemical
Unsuitable extinguishing media	:	High volume water jet

#### Physicochemical hazards arising from the chemical

Specific hazards during firefighting	:	The product itself does not burn. Material can be slippery when wet.
Hazardous combustion products	:	No hazardous combustion products are known

#### Special protective equipment and precautions for fire-fighters

Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Specific extinguishing methods	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust. Avoid dust formation. Keep people away from and upwind of spill/leak. Material can create slippery conditions. Only qualified personnel equipped with suitable protective equipment may intervene.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

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Methods and materials for containment and cleaning up : Use approved industrial vacuum cleaner for removal.  
High efficiency particulate air filter (HEPA filter)  
Clean-up methods - large spillage  
Knock down dust with water spray jet.  
After cleaning, flush away traces with water.  
Clean-up methods - small spillage

Pick up and arrange disposal without creating dust.  
Sweep up and shovel.  
Keep in suitable, closed containers for disposal.

### SECTION 7: Handling and storage

#### Handling

##### Precautions for safe handling

Advice on protection against fire and explosion : Avoid dust formation.

Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling : Operate if possible out of doors or in a well-ventilated place.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
Avoid prolonged or repeated contact with skin.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

#### Storage

##### Conditions for safe storage, including any incompatibilities

Conditions for safe storage : Avoid dust formation.  
Keep container tightly closed.  
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

Further information on storage stability : Keep in a dry place.  
No decomposition if stored and applied as directed.

### SECTION 8: Exposure controls and personal protection

#### Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
tetrasodium pyrophosphate	7722-88-5	TWA	5 mg/m <sup>3</sup>	MY PEL

Appropriate engineering : Ensure adequate ventilation.

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**controls** Maintain air concentrations below occupational exposure standards.  
Dust must be extracted directly at the point of origin.

### Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection : Wear safety glasses with side shields or goggles.  
If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.  
Safety glasses

Skin protection : Work uniform or laboratory coat.  
Protective suit

Hand protection

Remarks : Use protective skin cream before handling the product. The suitability for a specific workplace should be discussed with the producers of the protective gloves.  
Wear suitable gloves.

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Filter type : Filter type P  
No personal respiratory protective equipment normally required.

Hygiene measures : General industrial hygiene practice.

## SECTION 9: Physical and chemical properties

Appearance : powder

Colour : white

Odour : odourless

Odour Threshold : Not applicable

pH : 9.7  
Concentration: 20 g/l  
(as a dispersion)

Melting point/ range : Not applicable

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : Will not burn

Self-ignition : Not applicable

Upper explosion limit / Upper flammability limit : Not applicable

Lower explosion limit / Lower

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flammability limit	
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: No data available
Density	: No data available
Bulk density	: 1,000 kg/m <sup>3</sup>
Solubility(ies)	
Water solubility	: partly soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: Not applicable

### SECTION 10: Stability and reactivity

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed. Stable under normal conditions.
Possibility of hazardous reactions	: Stable under recommended storage conditions. No hazards to be specially mentioned. Dust may form explosive mixture in air.
Conditions to avoid	: Exposure to air or moisture over prolonged periods. No data available
Incompatible materials	: Strong acids and oxidizing agents
Hazardous decomposition products	: No decomposition if stored and applied as directed. No hazardous decomposition products are known.

### SECTION 11: Toxicological information

Information on likely routes of exposure : None known.

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

##### Components:

##### **tetrasodium pyrophosphate:**

Acute oral toxicity : LD50 (Rat): > 300 - < 2,000 mg/kg

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Method: OECD Test Guideline 420

GLP: yes

**Skin corrosion/irritation****Product:**

Remarks : No data available

**Components:****tetrasodium pyrophosphate:**

Result : No skin irritation

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

**Serious eye damage/eye irritation****Product:**

Species : Bovine corneal opacity and permeability assay (BCOP)

Result : No eye irritation

Method : OECD Test Guideline 437

GLP : yes

**Components:****tetrasodium pyrophosphate:**

Result : Severe eye irritation

Assessment : Risk of serious damage to eyes.

Species : Rabbit

Result : Corrosive to eyes

Method : OECD Test Guideline 405

GLP : yes

**Respiratory or skin sensitisation****Product:**

Remarks : No data available

**Components:****tetrasodium pyrophosphate:**

Test Type : Mouse Local Lymph Node assay (LLNA)

Exposure routes : Skin contact

Species : Mouse

Method : OECD Test Guideline 429

Result : Not a skin sensitizer.

GLP : yes

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**Germ cell mutagenicity****Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Carcinogenicity****Product:**

Remarks : No data available

**Reproductive toxicity****Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

**STOT - single exposure****Product:**

Remarks : No data available

**STOT - repeated exposure****Product:**

Remarks : No data available

**Repeated dose toxicity****Product:**

Remarks : No data available

**Aspiration toxicity****Product:**

No data available

**Further information****Product:**

Remarks : No data available

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**SECTION 12: Ecological information****Ecotoxicity****Product:**

Toxicity to fish :

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Remarks: No data available

Toxicity to daphnia and other  
aquatic invertebrates

Remarks: No data available

**Components:****tetrasodium pyrophosphate:**Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yesToxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Test Type: static test  
GLP: yesToxicity to algae/aquatic : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
plants : Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yesNOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yesToxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Method: OECD Test Guideline 209**Persistence and degradability****Product:**

Biodegradability : Remarks: No data available

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**Additional ecological : No data available  
information

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**SECTION 13: Disposal information****Disposal methods**

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

**SECTION 14: Transport information****International Regulations****UNRTDG**

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable

**IATA-DGR**

UN/ID No. : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Packing instruction (cargo aircraft) : Not applicable  
Packing instruction (passenger aircraft) : Not applicable

**IMDG-Code**

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
EmS Code : Not applicable  
Marine pollutant : Not applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Special precautions for user**

Not applicable

**SECTION 15: Regulatory information****Safety, health, and environmental regulations specific for the hazardous chemical**

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

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**SECTION 16: Other information**

Date format : dd.mm.yyyy

**Full text of other abbreviations**

MY PEL : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

MY PEL / TWA : Eight-hour time-weighted average airborne concentration

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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