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according to 1907/2006/EC, Article 31

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· **Trade name:** **AKSTAB KLSS**

· **Article number:** CA59006
· **CAS Number:**
12202-17-4
· **EC number:**
235-380-9
· **Index number:**
082-001-00-6
· **Registration number** 01-2119117576-34-0042

· 1.2 Relevant identified uses of the substance or mixture and uses advised against

· **Sector of Use** SU0 Other
· **Product category** PC32 Polymer preparations and compounds
· **Process category** PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
· **Environmental release category** ERC1 Manufacture of the substance
· **Article category** AC13 Plastic articles
· **Application of the substance / the mixture** Additive for PVC processing

· 1.3 Details of the supplier of the safety data sheet

AKDENIZ CHEMSON KIMYA SAN. ve TIC. A.S.
Kemalpasa O.S.B.Mah.Izmir Kemalpasa Asfalti Cad No:45
35735 KEMALPASA IZMIR
· **Manufacturer/Supplier:**
Akdeniz Chemson Kimya Sanayi ve Tic. A.S.
Ataturk Mah. No 45 35735 Ulucak
Kemalpasa - IZMIR/TURKEY
kivanc.akkas@akdenizchemson.com
Certificate No:01.134.02

· **Further information obtainable from:**
Akdeniz Chemson Kimya Sanayi ve Tic. A.S.
Kemalpasa O.S.B. Mah, No45, 35735
Kemalpasa-Izmir/TURKEY
Tel: +90 232 877 0144-378
Fax: +232 877 0150

· 1.4 Emergency telephone number: During normal opening times: +90/232/877 01 44

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008**

GHS08

Carc. 2 H351 Suspected of causing cancer.

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Repr. 1A	H360Df-H362	May damage the unborn child. Suspected of damaging fertility. May cause harm to breast-fed children.
STOT RE 1	H372	Causes damage to organs through prolonged or repeated exposure.

GHS09

Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects.

GHS07

Acute Tox. 4	H302	Harmful if swallowed.
Acute Tox. 4	H332	Harmful if inhaled.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

· **Hazard pictograms**

GHS07 GHS08 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Tetralead trioxide sulphate

· **Hazard statements**

H302+H332 Harmful if swallowed or if inhaled.
H351 Suspected of causing cancer.
H360Df-H362 May damage the unborn child. Suspected of damaging fertility. May cause harm to breast-fed children.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P260 Do not breathe dusts or mists.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P263 Avoid contact during pregnancy and while nursing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

· **3.1 Substances**
· **CAS No. Description**
12202-17-4 Tetralead trioxide sulphate
· **Identification number(s)**
· **EC number:** 235-380-9
· **Index number:** 082-001-00-6

· **SVHC**	
12202-17-4	Tetralead trioxide sulphate

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Generally the product does not irritate the skin.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** Call for a doctor immediately.
· **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
· **5.3 Advice for firefighters**
· **Protective equipment:** Mouth respiratory protective device.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
· **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **6.3 Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
· **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Keep container tightly sealed.
· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**
· **Ingredients with limit values that require monitoring at the workplace:** Not required.

· **DNELs**	
12202-17-4 Tetralead trioxide sulphate	
NOAEL	40 µg/l (Adult neurological function) 10 µg/l (Developmental effect on foetus of pregna)

· **PNECs**	
12202-17-4 Tetralead trioxide sulphate	
PNEC	6.5 µg/l (Fresh water) 3.4 µg/l (Marine water)
PNEC	41-174 mg/kg (Fresh water sediment) 164.2 mg/kg (Marine water sediment) 147 mg/kg (Terrestial plant)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
· **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
· **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:** Not required.
· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· **General Information**	
· **Appearance:**	
Form:	Powder
Colour:	White
· **Odour:**	Odourless
· **Odour threshold:**	Not determined.
· **pH-value:**	Not applicable.
· **Change in condition**	
Melting point/freezing point:	500 °C
Initial boiling point and boiling range:	500 °C
· **Flash point:**	Not applicable.
· **Flammability (solid, gas):**	Product is not flammable.
· **Decomposition temperature:**	Not determined.
· **Auto-ignition temperature:**	Not determined.
· **Explosive properties:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapour pressure:**	Not applicable.
· **Density at 20 °C:**	6.84 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with water at 20 °C:**	0.102 g/l
· **Partition coefficient: n-octanol/water:**	Not determined.
· **Viscosity:**	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solids content:	100.0 %
· **9.2 Other information**	No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

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· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions** No dangerous reactions known.
· **10.4 Conditions to avoid** No further relevant information available.
· **10.5 Incompatible materials:** No further relevant information available.
· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity**
Harmful if swallowed or if inhaled.

· **LD/LC50 values relevant for classification:**		
12202-17-4 Tetralead trioxide sulphate		
Oral	LD50	2,000 mg/kg (rat)

· **Primary irritant effect:**
· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity**
Suspected of causing cancer.
· **Reproductive toxicity**
May damage the unborn child. Suspected of damaging fertility. May cause harm to breast-fed children.
· **STOT-single exposure** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure**
Causes damage to organs through prolonged or repeated exposure.
· **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· **12.1 Toxicity**
· **Aquatic toxicity:** No further relevant information available.

· **EC10,NOEC Freshwater**	
12202-17-4 Tetralead trioxide sulphate	
Freshwater	8.2 µg/l (Hyalella azteca (42d, mortality))

· **EC10, NOEC Freshwater sediment**	
12202-17-4 Tetralead trioxide sulphate	
Freshwater sediment	573 mg/kg (Tubifex tubifex (28d,reproduction))

· **EC10, NOEC Marine water**	
12202-17-4 Tetralead trioxide sulphate	
Marine water	9.2 µg/l (Mytilus trossolus (48h, dev. abnor.))

· **EC10, NOEC Marine water sediment**	
12202-17-4 Tetralead trioxide sulphate	
Marine water sediment	680 mg/kg (Neanthes arenaneodentata(28d,growth))

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· **EC10, NOEC STP Micro-organisms**	
12202-17-4 Tetralead trioxide sulphate	
STP Micro-organism	0.1 mg/kg (STP Micro-organisms) 1 mg/kg (Protozoan community(24h-LC10))

· **12.2 Persistence and degradability** No further relevant information available.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.

· **EC10, NOEC Terrestial (Plants)**	
12202-17-4 Tetralead trioxide sulphate	
Terrestial (plants)	57 mg/kg (Hordeum vulgare)

· **Ecotoxical effects:**

· **Ecological toxicity values** **Reliable acute aquatic test results (tests conducted with soluble lead salts)**	
12202-17-4 Tetralead trioxide sulphate	
72h EC50 (pH>6,5-7,5)	52 µg/l (Pseudokirchneriella subcapitata)
72h EC50 (pH<7,5-8,5)	233.1 µg/l (Pseudokirchneriella subcapitata)
48h EC50 (pH>7,5-8,5)	107.5 µg/l (Daphnia magna)
48h EC50 (pH>5,5-8,5)	73.6 µg/l (Ceriodaphnia dubia)
96h LC50 (pH>6,5-8,5)	107 µg/l (Oncoryhnchus mykiss)
96h LC50 (pH>5,5-8,5)	194.2 µg/l (Pimephales promelas)

· **Remark:** Very toxic for fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**	
06 03 13*	solid salts and solutions containing heavy metals
15 01 10*	packaging containing residues of or contaminated by hazardous substances

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.

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SECTION 14: Transport information

· **14.1 UN-Number**
· **ADR, IMDG, IATA** UN2291

· **14.2 UN proper shipping name**
· **ADR** 2291 LEAD COMPOUND, SOLUBLE, N.O.S. (Tetralead trioxide sulphate)
· **IMDG** LEAD COMPOUND, SOLUBLE, N.O.S. (Tetralead trioxide sulphate), MARINE POLLUTANT
· **IATA** LEAD COMPOUND, SOLUBLE, N.O.S. (Tetralead trioxide sulphate)

· **14.3 Transport hazard class(es)**

· **ADR, IMDG**

· **Class** 6.1 Toxic substances.
· **Label** 6.1

· **IATA**

· **Class** 6.1 Toxic substances.
· **Label** 6.1

· **14.4 Packing group**
· **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:**
· **Marine pollutant:** Symbol (fish and tree)
· **Special marking (ADR):** Symbol (fish and tree)

· **14.6 Special precautions for user** Warning: Toxic substances.
· **Hazard identification number (Kemler code):** 60
· **EMS Number:** F-A,S-A
· **Segregation groups** Lead and its compounds
· **Stowage Category** A

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **Transport/Additional information:** Not dangerous according to the above specifications.

· **ADR**
· **Limited quantities (LQ)** 5 kg
· **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g
· **Transport category** 2
· **Tunnel restriction code** E

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· **IMDG**	
· **Limited quantities (LQ)**	5 kg
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· **UN "Model Regulation":**	UN 2291 LEAD COMPOUND, SOLUBLE, N.O.S. (TETRALEAD TRIOXIDE SULPHATE), 6.1, III, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** Substance is not listed.
· **Seveso category** E1 Hazardous to the Aquatic Environment
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 30, 63, 72

· **Regulation (EU) No 649/2012**
Annex I Part 1

· **National regulations:**

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**	
12202-17-4	Tetralead trioxide sulphate

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Product safety department.
· **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity - oral – Category 4
Carc. 2: Carcinogenicity – Category 2
Repr. 1A: Reproductive toxicity – Category 1A
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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Annex: Exposure scenario

· **Short title of the exposure scenario**
· **Sector of Use** SU0 Other
· **Product category** PC32 Polymer preparations and compounds
· **Process category** PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
· **Article category** AC13 Plastic articles
· **Environmental release category** ERC1 Manufacture of the substance
· **Description of the activities / processes covered in the Exposure Scenario**
See section 1 of the annex to the Safety Data Sheet.
· **Conditions of use**
· **Duration and frequency** 5 workdays/week.
· **Physical parameters**
· **Physical state** Solid
· **Concentration of the substance in the mixture** Raw material.
· **Other operational conditions**
· **Other operational conditions affecting environmental exposure** Use only on hard ground.
· **Other operational conditions affecting worker exposure** Avoid breathing particles.
· **Other operational conditions affecting consumer exposure** No special measures required.
· **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
· **Risk management measures**
· **Worker protection**
· **Organisational protective measures** No special measures required.
· **Technical protective measures**
Use product only in enclosed systems.
Ensure that suitable extractors are available on processing machines
· **Personal protective measures**
Do not inhale dust / smoke / mist.
Pregnant women should strictly avoid inhalation or skin contact.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
· **Measures for consumer protection** Ensure adequate labelling.
· **Environmental protection measures**
· **Water** Do not allow to reach sewage system.
· **Soil** Prevent contamination of soil.
· **Disposal measures** Ensure that waste is collected and contained.
· **Disposal procedures**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
· **Waste type** Partially emptied and uncleaned packaging
· **Exposure estimation**
· **Consumer** Not relevant for this Exposure Scenario.
· **Guidance for downstream users** No further relevant information available.