Section 1. Product and Company Identification

Product Name Aloxicoll 31 P
CAS Number 12042-91-0

Parchem - fine & specialty chemicals
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EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture
Not classified as a hazardous substance or mixture

Classification according to Regulation (EC) No 1272/2008
The substance is not to be classified according to the CLP regulation.

GHS Label Elements
Pictograms: N/A
Signal word: N/A

Hazard and precautionary statements
Hazard Statements: None

Precautionary Statements
P260 Do not breathe dust.
P280 Wear eye protection/face protection.

Information pertaining to particular dangers for man and environment: Void
Other hazards: Not applicable

Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

Section 3. Composition / Information on Ingredients

Common Name Aloxicoll 31 P
Synonym(s) Aluminum Chlorohydrate; Dialuminium Chloride Pentahydroxide
CAS Number 12042-91-0

Section 4. First Aid Measures

Description of first-aid measures
General information: No special measures required.
Inhalation: Supply fresh air; consult doctor in case of symptoms.
Skin Contact: Instantly rinse with water. The product is not skin irritating.
Eye Contact: Rinse opened eye for 15 minutes under running water. If symptoms persist, consult doctor.
Ingestion: Do not induce vomiting. Rinse out mouth and then drink plenty of water (approx. 500 ml).

Most important symptoms and effects, both acute and delayed
Inhalation: May cause mucous membrane irritation with cough and rhinitis.
Skin Contact: May cause mild irritation dryness and dermatitis.
Eye Contact: May cause redness, conjunctivitis and short term mild irritation.
Ingestion: May cause burning pain in mouth and throat.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

Section 5. Firefighting Measures

Extinguishing media
Suitable extinguishing agents: Use firefighting measures that suit the environment. CO_2, extinguishing powder or water jet. Fight larger fires with foam.
For safety reasons unsuitable extinguishing agents: Water with a full water jet.

Special hazards arising from the substance or mixture
Fire can cause release of: Hydrogen chloride (HCl)

Advice for firefighters
Protective equipment: Wear self-contained breathing apparatus.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Avoid causing dust. Wear protective clothing.
Environmental precautions: Do not allow concentrated solutions to enter drainage system, surface or ground water.
Methods and material for containment and cleaning up: Collect mechanically.
Reference to other sections: No dangerous materials are released.

Section 7. Handling and Storage

Precautions for safe handling: Before opening the bags/drums assure clean and hygienic conditions. Prevent formation of dust.
Information about protection against explosions and fires: No special measures required. The product is not flammable

Conditions for safe storage, including any incompatibilities
Storage
Requirements to be met by storerooms and containers: Do not use light alloy containers. Use only plastic containers and fittings.
Unsuitable materials: Steel, light and brass alloys
Product compatible materials: PVC, PP, PE, PTFE

Information about storage in one common storage facility: Not required.
Further information about storage conditions: Store in cool, dry conditions in well-sealed containers. Do not store above 60°C.

Section 8. Exposure Controls / Personal Protection

Control parameters
Components with critical values that require monitoring at the workplace:
Dialuminium Chloride Pentahydroxide (CAS# 12042-91-0)
WEL (Great Britain) Long-term value: 2 mg/m^3
DNELs
Dialuminium Chloride Pentahydroxide (CAS# 12042-91-0)
Oral General population 1.2 mg/kg bw/day (long-term exposure, systemic effects)
Inhalative Worker 7.1 mg/m^3 (long-term exposure, systemic effects)
PNECs
Dialuminium Chloride Pentahydroxide (CAS# 12042-91-0)
Water 20 mg/L (sewage-treatment plant)

Additional information: The lists that were valid during compilation were used as a basis. The general dust limit value of 1.25 mg/m^3 (alveolar fraction) and 10 mg/m^3 (respirable fraction) must be observed (TRGS 900, 2015).

Exposure controls
Personal protective equipment
General protective and hygienic measures: The usual precautionary measures should be adhered to in handling the chemicals. Wash hands during breaks and at the end of the work.
Breathing equipment: Not necessary if room is well-ventilated. Dust mask according to DIN EN 140 or 149 (FFP1 or FFP2). In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Protection of hands: Protective gloves.
In case of spray contact at least protection index 2 recommended, according to more than 30 min. penetration time (EN 374). Layer thickness of gloves at least 0.4 mm.
In case of prolonged and intensive contact protection index 6 recommended, according to more than 480 min. penetration time (EN 374). Layer thickness of gloves at least: 0.7 mm
Material of gloves: Butyl rubber, BR; Fluorocarbon rubber (Viton); Nitrile rubber, NBR; Natural rubber, NR; Chloroprene rubber, CR; Neoprene gloves;
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: Safety glasses (DIN 58211, EN 166)

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties
Appearance: Solid
Color: White
Smell: Odorless
Odor threshold: Not applicable
pH Value (20°C): 4.2
Melting point/Melting range: > 400°C
Boiling point/Boiling range: Not Determined
Flash point: Not applicable
Inflammability (solid, gaseous): Not applicable
Ignition temperature: Not applicable
Decomposition temperature: Not determined
Danger of explosion: Product is not explosive

Critical values for explosion
Lower: Not applicable
Upper: Not applicable
Dust explosion class: None, dust with not support combustion

Oxidizing Properties: None
Steam pressure: Not applicable
Density at 20°C: 1.2 g/cm^3
Settled apparent density (20°C): 600 - 900 kg/m^3
Evaporation rate: Not applicable
Solubility in/Miscibility with Water (20°C): ca. 500 g/L
Partition coefficient (n-octanol/water): ca. -2 log POW
Viscosity - dynamic: Not applicable
Viscosity - kinematic: Not applicable

Other information: No further relevant information available.

Section 10. Stability and Reactivity

Reactivity: No hazardous reactions when stored and handled according to instructions.

Chemical Stability
Thermal decomposition/conditions to be avoided: Thermal decomposition > 100°C. Water and HCl liberated.

Possibility of Hazardous Reactions: Reacts with alkali and metals
Conditions to Avoid: No further relevant information available.
Incompatible Materials: Reacts with aluminum forming hydrogen.
Hazardous Decomposition Products: Hydrogen chloride (HCl)

Section 11. Toxicological Information

Information on toxicological effects
Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:
Dialuminium Chloride Pentahydroxide (CAS #12042-91-0)
Oral LD50 - Rat: 9187 mg/kg (Acute Oral Toxicity)
Dermal LD50 - Rat: > 2001 mg/kg (Acute Dermal Toxicity)

Primary Irritant Effect
Skin corrosion/irritation: No irritant effect (OECD 404)
Serious eye damage/irritation: No irritant effect (OECD 405)
Respiratory or skin sensitization: No sensitization in contact with skin (OECD 406)
Repeated dose toxicity: No further relevant information available
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): No further relevant information available.
Germ Cell Mutagenicity: Mammalian Erythrocyte Micronucleus Tests test negative (OECD 474)
Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Not classified. Read across from Aluminum Hydroxy Chloride reproductive/developmental toxicity screening test. NOAEL 1000 mg/kg/day (equivalent to 90 mg/kg bw/day Al3+).

STOT - single exposure: Based on available data, the classification criteria are not met.
STOT - repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.

Section 12. Ecological Information

Toxicity
Aquatic toxicity: For Polyaluminiumhydroxichlorides (PAC), approx. 38% solid matter:
Fish toxicity: LC50/96h/Danio rerio: > 1000 mg/l (OECD 203)
Daphnia toxicity: EC50/48h/Daphnia magna: 98 mg/l (OECD 202)
Algae toxicity: IC50/72h/Alga: (OECD 201): Not applicable, as the phosphorous in the algae growth medium is precipitated by aluminum salts and as aluminum ions are masked by the complexing agents in the algae growth medium (expert opinion, Fraunhofer Institute).

NOEC Danio rerio: > 1000 mg/l
NOEC Daphnia magna: 40 mg/l
Based on these data, the product is not classified as harmful to the aquatic environment.

Dialuminium Chloride Pentahydroxide (CAS #12042-91-0)
LC50 (96 h) 100 - 500 mg/L (Brachydanio rerio)

Persistence and degradability: Inorganic salts are basically not biodegradable.
Other information: Easy elimination possible by flocculation or adsorption by sludge.

Bioaccumulative potential: Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

Mobility in soil: No further relevant information available.
Ecotoxical effects: N/A

Other information: No COD, no BOD, no AOX. No VOC according to EC-directive 1999/13/EC

Additional ecological information
According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC: None
General notes: Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

Other adverse effects: No further relevant information available.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

ADR, RID, ADN, IMDG, IATA: Not regulated
Environmental hazards: Not applicable
Special precautions for user: Not applicable.
Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.
Transport/Additional information: Not dangerous according to the above regulations.
UN "Model Regulation": Void

Section 15. Regulatory Information

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.

National regulations: Void
Other regulations, limitations and prohibitive regulations: Antiperspirants are regulated by the FDA as an OTC pharmaceutical. See Antiperspirant Monograph for details on formulation, manufacture and labeling. Maximum percent in an antiperspirant product is regulated.

Chemical Inventories
Europe (EINECS): Yes
Australia (AICS): Yes
Canada (DSL): Yes
Japan (ENCS): Yes
China (IECSC): Yes
Korea (KECI): Yes
USA (TSCA): Yes
Philippines (PICCS): Yes

Chemical safety assessment: This Product is not classified as hazardous and therefore there is no obligation for establishing an eSDS by law.
A Chemical Safety Assessment has been carried out.

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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