

### SAFETY DATA SHEET

### Smart Floc

According to Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, February 2016

SECTION 1: Identification: Product identifier and chemical identity	
Product identifier	
Product name	Smart Floc
Relevant identified uses of the	substance or mixture and uses advised against
Application	Waste Water treatment.
Uses advised against	For professional use only. This product is not recommended for any industrial, professional or consumer use other than the Identified uses above.
Details of the supplier of the s	afety data sheet
Supplier	Autosmart Australia 11 Darrambal Close Rathmines NSW 2283 Australia www.autosmartaustralia.com.au Tel: 02 49 75 14 88 (Mon to Fri, 08:00 - 16:00 AEST) (General Information. Transport Information. Mild Medical Information) autosmart@autosmartaustralia.com.au
Contact Person	Mr. Russell Butler
Emergency telephone number	
Emergency telephone	Emergency No: +44 7808 971321 (24hrs) (Autosmart International, UK) General Information. Transport Information. Mild medical Information:- Tel: 02 49 75 14 88 (Mon to Fri, 08:00 - 16:00 AEST)
National emergency telephone number	e Poison Information Hotline: 13 11 26
SECTION 2: Hazard(s) identif	ication
Classification of the substance	e or mixture
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
Label elements	
Hazard statements	NC Not Classified
Precautionary statements	P280 Wear protective gloves. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/ container in accordance with local regulations.

# Supplemental label information

For professional users only.

### Information

### Other hazards

This product does not contain any substances classified as PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative).

SECTION 3: Composition and information on ingredients	
Mixtures	
aluminium chlorohydrate	0-10%
CAS number: 12042-91-0	
Substance with a Community workplace exposure limit.	
Classification Not Classified	
The full text for all hazard statements is displayed in Section 16.	

SECTION 4: First aid measures		
Description of first aid measures		
General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.	
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.	
Ingestion	Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.	
Skin Contact	Remove affected person from source of contamination. Rinse immediately with plenty of water.	
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.	
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.	
Most important symptoms and	d effects, both acute and delayed	
General information	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	Prolonged inhalation of high concentrations may damage respiratory system.	
Ingestion	Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.	
Skin contact	Prolonged contact may cause dryness of the skin.	
Eye contact	May cause temporary eye irritation.	
Indication of any immediate medical attention and special treatment needed		
Notes for the doctor	Treat symptomatically.	
Specific treatments	No special treatment required.	

#### SECTION 5: Firefighting measures

Extinguishing media	
Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the	he substance or mixture
Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.
Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to Australia/New Zealand Standards AS/NZS 4967 (for clothing) AS/NZS 1801 (for helmets), AS/NZS 4821 (for protective boots), AS/NZS 1801 (for protective gloves) will provide a basic level of protection for chemical incidents.
SECTION 6: Accidental releas	e measures
Personal precautions, protectiv	ve equipment and emergency procedures
Personal precautions	No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage.
Environmental precautions	
Environmental precautions	Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

#### Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Reuse or recycle products wherever possible. Approach the spillage from upwind. Small Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labelled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage, including how the chemical may be safely used

#### Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists.		
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.		
Conditions for safe storage, including any incompatibilities			
Storage precautions	Store away from incompatible materials (see Section 10). Store in accordance with local regulations. Keep container tightly closed and at temperature not exceeding 38°C.		
Storage class	Unspecified storage.		
Specific end use(s)	Specific end use(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.		
SECTION 8: Exposure controls and personal protection			
Control parameters Occupational exposure limits aluminium chlorohydrate			
Long-term exposure limit (8-hour TWA): WEL 2 mg/m³ as Al			

WEL = Workplace Exposure Limit.

#### Exposure controls

#### Protective equipment



Appropriate engineering controls

Eye/face protection

Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants.

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with Australia/New Zealand Standard AS/NZS 1337. The following protection should be worn: Chemical splash goggles.

Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The breakthrough time for any glove material may be different for different glove manufacturers. To protect hands from chemicals, gloves should comply with Australia/New Zealand Standard AS/NZS 2161. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. The choice of protective gloves depends upon the chemicals
	being handled, and the conditions of work and use. When used with mixtures, the protection time of gloves cannot be accurately estimated. Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. Thickness: >0.2mm The selected gloves should have a breakthrough time of at least 0.5 hours. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application. Use thin cotton gloves inside natural rubber gloves if there is an allergy risk to natural rubber.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
Environmental exposure controls	Not regarded as dangerous for the environment.

# SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties		
Appearance	Liquid.	
Colour	Water-white. to Light (or pale). Amber.	
Odour	Almost odourless.	
рН	Not available.	
Melting point	-12°C	
Initial boiling point and range	104°C	
Vapour density	~ 9.2 @ >180 deg.	
Relative density	~ 1.19 @ 25°C	
Solubility(ies)	Miscible with water.	
Viscosity	Not available.	
Comments	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.	

Volatile organic compound This product contains a maximum VOC content of 0 %.

SECTION 10: Stability and rea	SECTION 10: Stability and reactivity		
Reactivity	See the other subsections of this section for further details.		
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.		
Possibility of hazardous reactions	No potentially hazardous reactions known.		
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.		
Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.		
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.		
SECTION 11: Toxicological int	formation		
Information on toxicological eff	fects		
Toxicological effects	Not regarded as a health hazard under current legislation.		
Acute toxicity - oral Notes (oral LD₅o)	Based on available data the classification criteria are not met.		
Acute toxicity - dermal Notes (dermal LD <sub>50</sub> )	Based on available data the classification criteria are not met.		
Acute toxicity - inhalation Notes (inhalation LC <sub>50</sub> )	Based on available data the classification criteria are not met.		
Skin corrosion/irritation Animal data	Based on available data the classification criteria are not met.		
Serious eye damage/irritation Serious eye damage/irritation	Based on available data the classification criteria are not met.		
Respiratory sensitisation Respiratory sensitisation	Based on available data the classification criteria are not met.		
Skin sensitisation Skin sensitisation	Based on available data the classification criteria are not met.		
Germ cell mutagenicity Genotoxicity - in vitro	Based on available data the classification criteria are not met.		
Carcinogenicity Carcinogenicity	Based on available data the classification criteria are not met.		
IARC carcinogenicity	None of the ingredients are listed or exempt.		
Reproductive toxicity Reproductive toxicity - fertility	Based on available data the classification criteria are not met.		

Reproductive to development	oxicity -	Based on available data the classification criteria are not met.
Specific target of	organ toxicity - s	ngle exposure
STOT - single e	exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target of	organ toxicity - re	peated exposure
STOT - repeate		Not classified as a specific target organ toxicant after repeated exposure.
Aspiration haza Aspiration haza		Based on available data the classification criteria are not met.
General informa	ation	No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation		Prolonged inhalation of high concentrations may damage respiratory system.
Ingestion		Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
Skin Contact		Prolonged contact may cause dryness of the skin.
Eye contact		May cause temporary eye irritation.
Route of exposi	ure	ngestion Inhalation Skin and/or eye contact
Target Organs		No specific target organs known.
Toxicological in	formation on ing	redients.
		aluminium chlorohydrate
Ac	cute toxicity - ora	
No	otes (oral LD₅₀)	LD₅₀ >2,000 mg/kg, Oral, Rat
Ac	cute toxicity - de	mal
No	otes (dermal LDe	) LD₅₀ >2,000 mg/kg, Dermal, Rat
SECTION 12: E	Ecological inform	ation
Ecotoxicity		Not regarded as dangerous for the environment. However, large or frequent spills may have nazardous effects on the environment.
Toxicity		Based on available data the classification criteria are not met.
Ecological inform	mation on ingree	ients.
		aluminium chlorohydrate
Ac	cute aquatic toxi	ity
Ac	cute toxicity - fish	LC₅₀, 96 hours: 1 mg/l, Fish NOEC, 1440 hours: 0.013 mg/l, Fish
	cute toxicity - aqu ants	atic EC₅₀, 48 hours: 0.014 mg/l, Algae EC₅₀, 72 hours: 0.075 mg/l, Algae
Persistence and	d degradability	
Persistence and	d degradability	The product is expected to be biodegradable.
Ecological inform	mation on ingree	ients.

### aluminium chlorohydrate

Persistence and degradability	Expected to be readily biodegradable.
Bioaccumulative potential	
Bioaccumulative Potential	No data available on bioaccumulation.
Ecological information on ingr	edients.
	aluminium chlorohydrate
Bioaccumulative	Potential Bioaccumulation is unlikely.
Mobility in soil	
Mobility	The product is water-soluble and may spread in water systems. The product is non-volatile.
Other adverse effects	
Other adverse effects	None known.
SECTION 13: Disposal consid	lerations
Waste treatment methods	
General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.
Disposal methods	Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.
SECTION 14: Transport inform	nation
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADG).
UN number	
Not applicable.	
UN proper shipping name	
Not applicable.	
Transport hazard class(es)	
No transport warning sign req	uired.

### Packing group

Not applicable.

### Environmental hazards

Environmentally hazardous substance/marine pollutant No.

### Special precautions for user

Not applicable.

Transport in bulk according to Pollution category: Cat Z Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information			
	Safety, health and environmental regulations/legislation specific for the substance or mixture		
National regulations	<ul> <li>The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).</li> <li>National Code of Practice for the Preparation of Material Safety Data Sheets.</li> <li>Approved Criteria for Classifying Hazardous Substances.</li> <li>Exposure Standards for Atmospheric Contaminants in the Occupational Environment.</li> <li>Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment.</li> <li>National Code of Practice for the Labelling of Workplace Substances.</li> <li>National Code of Practice for the Control of Workplace Hazardous Substances.</li> <li>National Code of Practice for the Control of Workplace Hazardous Substances.</li> <li>National Code of Practice for the Storage and Handling of Workplace Dangerous Goods.</li> <li>National Code of Practice for the Storage and Handling of Workplace Dangerous Goods.</li> <li>Guidance Note for Placarding Stores for Dangerous Goods and Specified Hazardous</li> <li>Substances. Guidance Note for the Assessment of Health Risks Arising from Hazardous</li> <li>Substances in the Workplace.</li> <li>National Standard for the Control of Major Hazard Facilities. National Code of Practice for the Control of Major Hazard Facilities.</li> </ul>		
Schedule (SUSMP)	No Poison Schedule number allocated		

#### Inventories

Australia - AICS

All the ingredients are listed or exempt.

#### SECTION 16: Any other relevant information

Abbreviations and acronyms used in the safety data sheet	ADG: Australian dangerous goods code
	<ul> <li>IATA: International air transport association.</li> <li>ICAO: Technical instructions for the safe transport of dangerous goods by air.</li> <li>IMDG: International maritime dangerous goods.</li> <li>CAS: Chemical abstracts service.</li> <li>ATE: Acute toxicity estimate.</li> <li>LC<sub>50</sub>: Lethal concentration to 50 % of a test population.</li> <li>LD<sub>50</sub>: Lethal dose to 50% of a test population (median lethal dose).</li> <li>EC<sub>50</sub>: 50% of maximal effective concentration.</li> <li>PBT: Persistent, bioaccumulative and toxic substance.</li> <li>vPvB: Very persistent and very bioaccumulative.</li> </ul>
Training advice	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.

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