

1.	. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING			
	1.1 Product Identifier:	HYDRANGEA COLOURANT		
	UFI	SXKV-Y65Q-Y504-X5QS		
	1.2 Relevant uses of the substance or			
		Plant colourant Vitax Limited, Owen Street, Coalville, Leicestershire LE67 3DE Tel: ++44 (0)1530 510060 Email: info@vitax.co.uk Tel: ++44 (0)1530 (Office Hours) In the event of emergency, call the National Poisons Information		
	1.3 Manufacturer/Distributor:			
	1.4 Emergency Contact:			
	IRL ONLY:			
		Centre, Beaumont Hospital at 01 809 2166 or 01 837 9964.		
2.	HAZARDS IDENTIFICATION			
	2.1 Classification:	Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)		
		Eye Dam. 1 H318: Causes serious eye damage		
	2.2 Label Elements:	Contains 15.3% Aluminium Sulphate (EC 10043-01-3) and 6.7% Ferrous sulphate heptahydrate (EC No. 231-753-5)		
	Signal word:	Danger		
	Hazard statements:	H31 Causes serious eye damage.		
	Precautionary Statements	P101 Read label before use		
		P102 Keep out of reach of children		
		P103 If medical advice is needed, have product label or container at hand		
		P280 Wear eye/face protection. P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact		
		lenses, if present and easy to do. Continue rinsing.		
		P310 Immediately call a POISON CENTER or doctor/physician.		
	2.3 Other Hazards:	n/a.		

3.2 Mixtures

Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	Symbol(s) and Phrases	Precautionary Statements:	Concentration [%]
Ferrous Sulphate	7782-63-0/ 231-753-5	026-003-01-4 Index number 01-2119513203-57- XXXX REACH registration number	GHS07 Acute Tox. 4 H302: Harmful if swallowed Skin Irrit. 2 H315: Causes skin irritation Eye Irrit. 2 H319: Causes serious eye irritation	P273 P280 P301/312 P302/352 P305/351/338 P313	6.7
Aluminium sulphate as hexadecahydrate	10043-01-03 233-135-0		GHS05 Eye Dam 1 H318: Causes serious eye damage	P280 P305/351/338 P310	15.3 as Al ₂ O ₃

4. FIRST AID MEASURES

4.1 Description of First Aid Mea	asures
Eye contact –	Rinse eyes cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison centre or doctor/physician.
Skin contact –	Immediately wash skin with plenty of soap and water. Get medical attention if irritation develops or persists
Ingestion –	Wash out mouth with water and seek medical advice.
Inhalation –	Remove the affected person immediately to fresh air. Get medical attention if needed
4.2 Most important symptoms a	nd effects, both acute and delayed
	Not available
4.3 Indication of immediate med	lical attention and special treatment needed:
	In case of shortness of breath, give oxygen. Keep patient warm. Keep under observation. Symptoms may be delayed



		Additional medical guidance is available to doctors from the National Poisons Information Service		
5.	FIRE FIGHTING MEASURES	Non flammable		
	5.1 Extinguishing Media:	If involved in a fire use water spray, CO2 or dry powder.		
	5.2 Special hazards arising from sub			
	5.3 Advice for firefighters:	Under intense heat, product decomposition will release toxic sulphur oxide fumes. Wear self-contained breathing apparatus in confined spaces. Contain contaminated run-off.		
6.	ACCIDENTAL RELEASE MEASURES			
	6.1 Personal Precautions:	Ensure adequate ventilation. Wear a suitable dust mask if dust is generated above exposure limits Wear eye protection. Wash hands and exposed skin after handling.		
	6.2 Environmental precautions:6.3 Methods and material for contai	Do not allow to enter drains or sewers.		
		Sweep up spills carefully to minimise dust. Transfer to heavy duty plastic bags or drums and keep safe for disposal.		
7.	HANDLING & STORAGE			
	7.1 Precautions for Safe Handling:	Ensure good ventilation at workplace. Ensure good hygiene practices are observed. Do not eat, drink or smoke when handling this product. Do not breathe dust. Avoid contact with skin and eyes. Ensure workplace exposure limits are observed. Do not block stack pallets.		
	7.2 Conditions for Safe Storage:	Store in original containers, tightly closed in a secure, well ventilated, cool but frost free, dry area. Store clear of foodstuffs and in a separate stack from herbicides.		
	7.3 Specific end use:	Fertiliser.		
8.	EXPOSURE CONTROLS/ PERSON	ALPROTECTION		
	8.1 Control parameters:	The OEL (Occupational Exposure Limit) for aluminium sulphate 17% is 2mg/m ³ in the Unite Kingdom, measured as an 8 hour TWA (Time Weighted Average		
	DNELs Figures stated are aluminium sulph Worker	nate 17%		
	Acute systemic effects, oral: Consumer Acute systemic effects, oral:	5.7 mg/kg/d 3.7 mg/kg/d		
	Figures stated are for ferrous sulpha			
	Consumer	$(E_{2}S_{0} *7H_{0}) = 1.4 \text{ modes}/d$		
	Acute systemic effects, oral: Acute systemic effects, dermal:	(FeS0 ₄ *7H ₂ 0) 1.4 mg/kg/d (FeS0 ₄ *7H ₂ 0) 1.4 mg/kg/d		
	Acute systemic effects, inhalative:			
	Systemic long-term effects, oral: Systemic long-temi effects, dermal Systemic long-temi effects, inhalati			
	Worker Acute systemic effects, dermal: Acute systemic effects, inhalative:	(FeS0 ₄ *7H ₂ 0) 2.8 mg/kg/d (FeS0 ₄ *7H ₂ 0) 9.9 mg/m ³		
	Systemic long-term effects, dermal Systemic long-term effects, inhalat			
	PNECs	Not available for aluminium sulphate salts. The PNECs given in this section were derived based on the concentration which would cause a 10% increase above typical natural background levels of iron in soil and sediment. Thus the respective PNEC is equal to 110% of the typical natural background level of iron		
	Water	Iron is an essential trace element for fish, aquatic invertebrates and plants. A direct toxicity could not be demonstrated in tests. Therefore no PNEC was derived.		
	Sewage treatment plants (STP)	PNEC STP Fe: 500 mg/l;		
	Sediment	PNEC Sediment (freshwater):Fe: 49.5 g/kg;PNEC Sediment (marine water):Fe: 49.5 g/kg;Soil PNEC soil:Fe: 55.5 g/kg;		
	Oral (food chain)	Iron is an essential trace element for fish, aquatic invertebrates and plants. A direct toxicity could not be demonstrated in tests. Therefore no PNEC was derived		

8.2 Exposure Controls: Personal protective equipment:



General protective and h	ygienic measures: The general personal protection measures of the chemical industry	
	apply. The usual precautionary measures should be adhered to in the handling of the	
	chemicals. Wear protective gloves and eye protection. Take off contaminated clothing	
	and wash before reuse. Do not eat, drink or smoke when handling this product.	
Breathing equipment:	Dust Mask FFP2 Not required if all workplace limits are observed and good ventilation is ensured.	
Protection of hands:	Requirements according to EN 420. Check protective gloves prior to each use for their proper condition. Preventive skin protection by use of skin protecting agents is recommended.	
Material of gloves:	Polychloroprene recommended.	
Penetration time of glove material: Protective gloves should be replaced at first sign of wear		
Eye protection:	Tightly sealed safety glasses.	
Body protection:	Protective work clothing.	

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	off white powder/granule
Odour	none
pH	approx 3 at 5% w/w in water
Boiling point	decomposes at 770 deg C
Melting point	not available
Flash point	none
Flammability	not flammable
Autoflammability	none
Explosivity	none
Oxidising properties	none
Vapour Pressure	not available
Relative density	not available
Solubility	soluble in water
9.2 Other information:	none

10. STABILITY & REACTIVITY

10.1 Reactivity:	no data
10.2 Stability:	Stable under normal conditions.
10.3 Possibility of hazardous reaction	s Reacts with strong alkalis to release ammonia
10.4 Conditions to Avoid:	Store away from heat
10.5 Incompatible materials:	strong oxidising agents.
10.6 Hazardous Decomposition Produ	ucts:
	Decomposes at high temperatures producing to

Decomposes at high temperatures producing toxic nitrogen and sulphur oxide fumes.

11. TOXICOLOGICAL INFORMATION Acute toxicity

LD/LC50 values that are relevant for classification:

Oral LD₅₀ ferrous sulphate 7720-78-7: 1389 mg/kg (rat) Oral LD₅₀ aluminium sulphate 10043-01-3: >2000 mg/kg (rat) Dermal LD₅₀ aluminium sulphate 10043-01-3:>2000 mg/kg (rat)

Primary irritant effect for Ferrous sulphate:		
skin: ferrous sulphate 7720-78-7	OECD 404: Irritant for skin and mucous membranes	
aluminium sulphate 10043-01-3:	no signs of dermal irritation	
eye: ferrous sulphate 7720-78-7	OECD 405: Irritant effect.	
eye: aluminium sulphate 10043-01-3:	OECD 405: Causes serious eye damage.	
Sensitization:	OECD 429 (LLNA-test); No sensitizing effects.	
Subserves to shuseris torisitus		
Subacute to chronic toxicity:		
Data of the Key Studies for iron sulphates a	nd iron chlorides:	
Oral NOAEL ferrous sulphate 7720-78-7	57 - 65 mg Fe/kg/d (rat, 90 days) (not according to OECD)	
Dermal NOAEL	no relevant data available	
Inhalative NOAEC	no relevant data available	

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)



	Specific target organ toxicity (STOT)	There are no indications of CMR effects. No specific target organ toxicity according to the criteria defined in Regulation (EC) No.
	Specific target organ toxicity (5101)	1272/2008.
	Aspiration hazard	No data, not an aspiration hazard.
12.	ECOLOGICAL INFORMATION	
	12.1 Toxicity:	not classified as hazardous.
	aluminium sulphate 10043-01-3:	LC50 Danio <a>>1000mg/l 96hrs
		NOEL Danio <a>>>>>1000mg/l 96hrs
		EC50 Daphnia \geq 160mg/l 48hrs immobilisation
		NOEL Daphnia ≥160mg/l 48hrs
	12.2 Persistence and degradability:	no data
	12.3 Bioaccumulative potential:	no data
	12.4 Mobility in soil:	no data.
	12.5 Results of PBT and vPvB:	not classified.
	12.6 Other adverse data:	no data
13. DI	ISPOSAL CONSIDERATIONS	Disposal route should not permit contamination of groundwater.
	13.1 Waste treatment methods:	Dispose of waste through a reputable waste disposal contractor in accordance with the
		Environmental Protection Act 1990.
14. TF	RANSPORT INFORMATION	
	14.1 UN-Number	
	ADR, IMDG, IATA :	Not applicable.
	14.2 UN proper shipping name	
	ADR, IMDG, IATA:	Not applicable.
	14.3 Transport hazard class(es)	
	ADR, IMDG, IATA	
	Class:	Not applicable.
	14.4 Packaging Group	
	ADR, IMDG, IATA:	Not applicable.
	14.5 Environmental hazards:	Not a marine pollutant.
	14.6 Special precautions for user	None
	14.7 Transport in bulk according to	Annex II of MARPOL73/78 and the IBC Code Not applicable.
15.	REGULATORY INFORMATION	Not applicable.
		al regulations/legislation specific to this substance:
		This substance is classified and labelled in accordance with regulation 1999/45/EC,
		1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and
		Packaging) regulations and the EC Fertiliser Regulations 2003, Regulation (EC) No
		1907/2006 of the European Parliament and of the Council of 18 December 2006
		concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
		(REACH), establishing a European Chemicals Agency, amending Directive
		1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission
		Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and
		Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC,
		including amendments.
	15.2 Chemical Safety Assessment	not undertaken for this material
	OTHER INFORMATION	
	Reason for revision:	Replaces version dated January 2015. UFI and Irish emergency contact details added
		with minor reformatting.
	Liability	The product label provides information on the use of the product: do not use
		otherwise, unless you have assessed any potential hazard involved and the safety
		measures required. Prepared by VITAX LTD, for Health and Safety purposes from
		the best knowledge available at the time of printing.