SAFETY DATA SHEET Section 1: IDENTIFICATION

Product Name:
Design Code:
Recommended Use:
Company Details:
Address:

ELATUS PLUS A15457H Fungicide Syngenta Crop Protection Limited Level 4, 60 Parnell Road, Parnell AUCKLAND 1052 NEW ZEALAND

Telephone number: Emergency Telephone number: National Poisons & Hazchem Information Centre : (weekdays) 09 306 1500 (24 Hours) 0800 734 607

0800 POISON (0800 764 766)

Section 2: HAZARDS IDENTIFICATION

GHS classification:	
Acute oral toxicity:	Category 4
Serious eye damage:	Category 1
Skin sensitisation:	Category 1
Aspiration hazard:	Category 1
Specific target organ toxicity, repeat exp	osure: Category 2
Hazardous to the aquatic environment, a	acute: Category 1
Hazardous to the aquatic environment, c	hronic: Category 1
Hazardous to soil organisms	
Hazardous to terrestrial vertebrates	
GHS label elements:	
Hazard pictogram:	\land \land \land \land
	X
Signal word:	DANGER
· ·	
Hazard statements:	H302 Harmful if swallowed.
	H304 May be fatal if swallowed and enters airways.
	H317 May cause an allergic skin reaction.
	H318 Causes serious eye damage.
	H373 May cause damage to organs through prolonged or repeated
	exposure
	H400 Very toxic to aquatic life.
	H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements:	Prevention:
	P260 Do not breathe mist or spray
	P264 Wash thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product.
	P272 Contaminated work clothing should not be allowed out of the
	workplace.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face
	protection.
	Response:
	P301 + P310 IF SWALLOWED: Immediately call a Poison
	Centre/doctor.
	P311 Do NOT induce vomiting.
	P302 + P352 IF ON SKIN: Wash with plenty of water.
	P333 + P313 If skin irritation occurs: Get medical advice/attention.
	P262 + P364 Take off contaminate clothing and wash it before reuse.
	P314 Get medical advice/attention if you feel unwell.
	P305 + P351 + P338 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 Centre or doctor.

P391 Collect spillage. **Storage:** P405 Store locked up. **Disposal:** P501 Dispose of contents/ container to an approved waste disposal plant. **D not** -

Other hazards which do not result in classification:

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture:

Chemical Identity of ingredients:		
Ingredient	CAS no.	Content (% w/w)
Benzovindiflupyr	1072957-71-1	10
Mixture of octanoic acid- decanoic acid- N,N-dimethylamide	1118-92-9	>=20-<30
Solvent naphtha (petroleum), heavy arom	64742-94-5	>=20-<25
Poly(oxy-1,2-ethanediyl), alpha-(9Z)-9-octadecenyl-omega- hydroxy	9004-98-2	>=20-<30
poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl] hydroxy-	99734-09-5	>=1-<10
other ingredients determined not to be hazardous	-	to 100%

Section 4: FIRST AID MEASURES

Description of First Aid measures	:
General Advice:	For advice contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.
If inhaled:	Move the victim to fresh air.
	If breathing is irregular or stopped, administer artificial respiration.
	Keep patient warm and at rest.
	Call a Doctor or the National Poisons Centre immediately.
In case of skin contact:	Take off all contaminated clothing immediately.
	Wash off immediately with plenty of water.
	If skin irritation persists, call a doctor.
	Wash contaminated clothing before re-use.
In case of eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at leas 15 minutes.
	Remove contact lenses (if present).
	Immediate medical attention is required.
If swallowed:	If swallowed seek medical advice immediately and show the container or label.
	DO NOT induce vomiting.
Important symptoms and effects, I	both acute and delayed:
Symptoms:	Aspiration may cause pulmonary oedema and pneumonitis.
Indication of any immediate medic	al attention and special treatment needed:
Treatment:	There is no specific antidote available.
	Treat symptomatically.
	Do not induce vomiting: contains petroleum distillates and/or aromatic
	solvents.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media:			
Suitable extinguishing media:	Small fires:		
	Use water spray, alcohol-resistant foam, dry chemical or carbon		
	dioxide.		
	Large Fires:		
	Alcohol resistant foam or water spray.		
Unsuitable extinguishing media:	Do not use a solid water stream as it may scatter and spread fire.		
Special hazards arising from the substance or mixture:			
Specific hazards during fire-	As the product contains combustible organic components, fire will		
fighting:	produce dense black smoke containing hazardous products of combustion (see section 10)		
	Exposure to decomposition products may be a hazard to health.		
Advice for firefighters:			
Special protective equipment for firefighters:	Wear full protective clothing and self-contained breathing apparatus.		
Further information:	Do not allow run-off from fire fighting to enter drains or water courses.		
	Cool closed containers exposed to fire with water spray.		

Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective	equipment and emergency procedures Refer to protective measures listed in Sections 7 and 8.
	Refer to protective measures listed in Sections 7 and 8.
Environmental Precautions:	
	Prevent further leakage or spillage if safe to do so.
	Do not flush into surface water or sanitary sewer system.
	If the product contaminates rivers and lakes or drains inform respective authorities.
	would also win a sure
Methods and material for contain	
	Contain spillage, and then collect with non-combustible absorbent material, (eg, sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations (see section 13). Clean contaminated surface thoroughly.
	If the product contaminates rivers and lakes or drains inform respective authorities.
Reference to other sections:	Refer to disposal considerations listed in Section 13.
	Refer to protective measures listed in sections 7 and 8.

Section 7: HANDLING AND STORAGE

Precautions for Safe handling:			
Advice on safe handling:	No special protective measures against fire required.		
	Avoid contact with skin and eyes.		
	When using do not eat, drink or smoke.		
	For personal protection see section 8.		
Conditions for safe storage, including any incompatibilities:			
Requirements for storage areas	No special storage conditions required. Keep containers tightly closed		
and containers:	in a dry, cool and well-ventilated place. Keep out of reach of children.		
	Keep away from food, drink and animal feeding stuffs.		
Specific end use(s)			
Specific use(s)	For proper and safe use of this product, please refer to the approval		
	conditions laid down on the product label.		

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Control Parameters Occupational Exposure I	_imits:			
Components	CAS No	Exposure limit	Type of exposure limit	Source
Solvent naphtha	64742-94-5	8 ppm	TWA	Supplier
(petroleum), heavy arom.		50 mg/m ³		
Benzovindiflupyr	1072957-71-1	1 mg/m ³	TWA	Syngenta
Cellulose, ethyl ether	9004-57-3	10 mg/m ³	TWA	Supplier
Exposure controls				
Engineering measures:	prote The e use. Main Whe	ainment and/or segreg ction measure if expos extent of these protecti tain air concentrations re necessary, seek ado	sure cannot be elimi ion measures depen below occupational	nated. ds on the actual risks in exposure standards.
Personal Protective Prote	ection:			
Eye protection:	conta Tight	ys wear eye protection act with the product can ly fitting safety goggles -shield.	nnot be excluded.	for inadvertent eye
Hand protection:				
Material:	Chen	nical resistant gloves,	such as nitrile rubbe	r
Break through time:	>480	-		
Glove thickness:	0.5 m	ım		
	produ perm of the unde and t thing there disca chem	e gloves. Also take into r which the product is he contact time. The l s on the material, the t fore has to be measur irded and replaced if th nical breakthrough.	ise observe the instr ugh time which are p o consideration the s used, such as the da oreakthrough time do hickness and the typed for each case. Go here is any indication	uctions regarding provided by the supplier pecific local conditions anger of cuts, abrasion epends amongst other pe of glove and loves should be n of degradation or
Skin and body protectior	amou Remo Wear	bee body protection in r unt of dangerous subst ove and wash contami r as appropriate: rvious protective suit.	ances and to the sp	•
Respiratory protection:			ed respirators. ient: ask.	the exposure limit they
Protective measures:	exper partic conce used Filter The u of pe When profe Perso	cted contaminant conc culates) that may arise entration is exceeded,	entration (gas, vapo when handling the self-contained breat e (P) s should always hav oment. rotective equipment,	our, aerosol, product. If this hing apparatus must be re priority over the use seek appropriate

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:		
	-	
Appearance:	Solution	
Colour:	Clear to slightly turbid	
Odour:	No data	
Odour threshold:	No data	
pH value	4-8, concentration: 1% w/v	
Melting point / freezing point:	No data	
Initial boiling point and boiling range:	No data	
Flash point:	101°C (1019.0 hPa)	
	Method: Pensky-Martens closed cup	
Flammability:	No data	
Upper / lower flammability / explosive limits:	No data	
Vapour pressure:	No data	
Vapour Density:	No data	
Density:	0.978 g/cm³ (25°C)	
Solubility:	No data	
Partition co-efficient: n-octanol / water:	Log Pow: 4.3 (25°)	
Autoignition temperature	No data	
Decomposition temperature:	No data	
Dynamic viscosity:	24.6 mPa.s (40°C)	
	70.7 mPa.s (20°C)	
Kinematic viscosity:	>= 22 mm2/s (40°C)	
Explosive properties:	Not explosive	
Oxidising properties:	Not oxidising	
Surface tension:	31.3 mN/m, 20°C	

Section 10: STABILITY AND REACTIVITY

Reactivity:

See Section: "Possibility of Hazardous Reactions".

Chemical Stability:

The product is stable when used in normal conditions.

Possibility of Hazardous Reactions:

No dangerous reaction known under conditions of normal use.

Conditions to Avoid

No decomposition if used as directed.

Incompatible Materials:

None known

Hazardous Decomposition Products:

Combustion or thermal decomposition will evolve toxic and irritant vapours.

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity (similar cor	nposition)	
Swallowed:	LD ₅₀ 1086 mg/kg (female rat)	
Dermal absorption:	LD ₅₀ >2000 mg/kg (rat)	
Inhaled:	LC ₅₀ (4 h) >2.54 mg/L (rat)	
Aspiration hazard:	Category 1	
Respiratory irritation:	Not classified	
Skin corrosion / irritation:	SEVERE IRRITANT / CORROSIVE(rabbit)	
Eye damage / irritation:	NON-IRRITANT (rabbit)	
Respiratory or Skin Sensitisation:	SENSITISER (skin - guinea pig)	
Chronic / Long Term Effects (active ingredient) Germ cell mutagenicity: Animal testing did not show any mutagenic effects. Carcinogenicity: Weight of evidence does not support classification as a carcinogen. This substance has been reported to cause tumours in certain animal species. There is no evidence that these findings are relevant to humans.		

Reproductive toxicity: Specific Organ toxicity:	No toxicity to reproduction. Single exposure: The substance or mixture is not classified as specific target organ toxicant, single exposure. Repeated exposure: The substance or mixture is classified as specific target organ toxicant, repeated exposure, Category 2.
Narcotic Effects: Aspiration toxicity: Solvent naphtha (petroleum), highly arom.	Not classified The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes human aspiration toxicity hazard.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity Effects – aquatic (produc	t)
Acute toxicity to fish:	LC_{50} (96 h) = 0.068 mg/L (Oncorhynchus mykiss (Rainbow trout))
Toxicity to daphnia and other aquatic invertebrates:	LC ₅₀ (48h) = 0.27 mg/L (Daphnia magna (water flea))
Toxicity to algae:	E _r C ₅₀ (96 h)= 3.3 mg/L (Pseudokirchneriella subcapitata (green algae))
Ecotoxicity Effects – terrestrial (activ	e ingredient unless otherwise specified)
Toxicity to Birds:	LD ₅₀ (8 d) = >2000 mg/kg bw (Quail)
Toxicity to soil dwelling organisms:	LC ₅₀ (14 days) = >695 mg/kg (earthworms)
Toxicity to Bees:	LD ₅₀ (48 h, oral) = >383 µg/bee
	LD ₅₀ (48 h, contact) = >358 µg/bee
Persistence and degradability:	
Biodegradability:	Mixture of octanoic acid-decanoi acid-N,N-dimethylamide : Readily biodegradable
	Benzovindiflupyr : Not readily biodegradable
Stability in water:	Mixture of octanoic acid-decanoi acid-N,N-dimethylamide:
_	Not persistent in water.
Bioaccumulative potential:	
Bioaccumulation:	Benzovindiflupyr : Does not bioaccumulate.
Partition coefficient: n-	Log Pow: 4.3 (25°C)
octanol/water:	
Mobility in soil:	
Distribution among environmental	Benzovindiflupyr: slightly mobile in soils.
compartments:	
Stability in soil:	Benzovindiflupyr: Not persistent in soil.
Other adverse effects:	
Results of PBT and vPvB	This substance contains no components considered to be either
assessment (product):	persistent, bioaccumulative and toxic (PBT) or very persistent and
	very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 13: DISPOSAL CONSIDERATIONS

Product Disposal:	DO NOT contaminate ponds, waterways or ditches with chemical or used containers. DO NOT dispose of waste into sewer. Dispose of this product only by using according to the label. Otherwise, dispose of waste at an approved landfill or other approved facility that will ensure the substance does not exceed the tolerable exposure limit (TEL) or environmental exposure limit (EEL), where relevant, or will treat the substance so that it is rendered no longer hazardous.
Container Disposal:	Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

Section 14: TRANSPORT INFORMATION

Pail / Poad (NZS 5433)		3082
Rail / Road (NZS 5433)	UN-No:	
	Class:	9
	Packing Group:	III
	Proper shipping name:	ENVIRONMENTALLY HAZARDOUS
		SUBSTANCE, LIQUID, N.O.S.
		(benzovindiflupyr)
Sea (IMDG-Code)	UN-No:	3082
	Class:	9
	Packing Group:	
	Proper shipping name:	 ENVIRONMENTALLY HAZARDOUS
	r toper snipping name.	
		SUBSTANCE, LIQUID, N.O.S.
		(benzovindiflupyr)
	EmS Code:	F-A, S-F
	MARINE POLLUTANT:	Yes
Air (IATA)	UN-No:	3082
	Class:	9
	Packing Group:	
	Proper shipping name:	ENVIRONMENTALLY HAZARDOUS
	r toper snipping hame.	
		SUBSTANCE, LIQUID, N.O.S.
		(benzovindiflupyr)
	Packing instruction:	Y964 cargo and passenger

Section 15: REGULATORY INFORMATION

HSNO Approval Number:	HSR101179	
Tolerable Exposure Limit or	None set at this time.	
Environmental Exposure Limit:		
Required Regulatory Controls:		
Certified handler:	No	
Tracking:	No	
Record Keeping:	Yes	
ACVM Registration:	P 9276	
ACVM Controls:	See www.foodsafety.govt.nz for registration conditions.	
International Agreements related to the substance (eg, Montreal Protocol, Stockholm Convention or Rotterdam Convention):	Not applicable	

Section 16: OTHER INFORMATION

Date of SDS Preparation / Review:	29 January 2025		
Version number of SDS:	5.0		
Key / Legend to abbreviations and			
acronyms used:			
AICS - Australian Inventory of Chemical Substances;	MARPOL - International Convention for the Prevention of		
ANTT - National Agency for Transport by Land of Braz			
ASTM - American Society for the Testing of Materials;			
bw - Body weight;	Nch - Chilean Norm;		
CMR -Carcinogen, Mutagen or Reproductive Toxicant	; NO(A)EC - No Observed (Adverse) Effect Concentration;		
CPR - Controlled Products Regulations;	NO(A)EL - No Observed (Adverse) Effect Level;		

	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 Agency for Research on Cancer; 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; 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	 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 ActivityRelationship; 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; 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; WES – Workplace Exposure Standard (Worksafe NZ) WHMIS - Workplace Hazardous Materials Information System 			
	LC50 - Lethal Concentration to 50 % of a test population;	WES – Workplace Exposure Standard (Worksafe NZ)			
	Dose);				
F	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of				

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