

KAVATUR PLUS

Version	
3.0	

Revision Date: 06.01.2022

SDS Number: S00031536740 This version replaces all previous versions.

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

1.1 Product identifier

Trade name	:	KAVATUR PLUS
Design code	:	A15457H
Product Registration Number	:	MAPP 19566
Unique Formula Identifier (UFI)	:	TEP3-00RP-400H-U9MM

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

Use of the Substance/Mixture	:	Fungicide
Recommended restrictions on use	:	professional use professional use

1.3 Details of the supplier of the safety data sheet

Company	:	Syngenta UK Limited CPC4, Capital Park Fulbourn, Cambridge CB21 5XE United Kingdom
Telephone	:	+44 (0) 1223 883400
Telefax	:	+44 (0) 1223 882195
E-mail address of person responsible for the SDS	:	customer.services@syngenta.com

1.4 Emergency telephone number

Emergency telephone	: +44 1484 538444
number	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Serious eye damage, Category 1	H318: Causes serious eye damage.

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Skin sensitisation, Category 1H317: May cause an allergic skin reaction.Specific target organ toxicity - single
exposure, Category 3, Respiratory
systemH317: May cause an allergic skin reaction.Short-term (acute) aquatic hazard,
Category 1H400: Very toxic to aquatic life.Long-term (chronic) aquatic hazard,
Category 1H410: Very toxic to aquatic life with long lasting
effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	 H302 + H332 Harmful if swallowed or if inhaled. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. H410 Very toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH066 Repeated exposure may cause skin dryness or cracking.
Precautionary statements	:	P102 Keep out of reach of children.
		Prevention:
		 P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ eye protection/ face protection. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
		Response:
		 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P391 Collect spillage.
		Disposal:
		P501 Dispose of contents/container to a licensed hazardous-

P501 Dispose of contents/container to a licensed hazardouswaste disposal contractor or collection site except for empty

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triple rinsed clean containers which can be disposed of as non-hazardous waste.

Hazardous components which must be listed on the label:

mixture of octanoic acid- decanoic acid- N,N-dimethylamide poly(oxy-1,2-ethanediyl), alpha-(9Z)-9-octadecenyl-omega-hydroxy-benzovindiflupyr (ISO)

Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
mixture of octanoic acid- decanoic acid- N,N-dimethylamide	1118-92-9 214-272-5 01-2119974115-37	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)	>= 20 - < 30
hydrocarbons, C10-C13, aromatics, <1% naphthalene	Not Assigned 922-153-0 01-2119451097-39	Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 20 - < 25
poly(oxy-1,2-ethanediyl), alpha-(9Z)- 9-octadecenyl-omega-hydroxy-	9004-98-2 500-016-2	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 20 - < 30
benzovindiflupyr (ISO)	1072957-71-1 616-218-00-X	Acute Tox. 3; H301 Acute Tox. 3; H331 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10 - < 20
		M-Factor (Acute aquatic toxicity): 100100 M-Factor (Chronic aquatic toxicity):	

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		100100	
poly(oxy-1,2-ethanediyl), -[2,4,6-	99734-09-5	Aquatic Chronic 3;	>= 1 - < 2.5
tris(1-phenylethyl)phenyl]hydroxy-		H412	
naphthalene	91-20-3	Flam. Sol. 2; H228	>= 0.1 - < 0.25
	202-049-5	Acute Tox. 4; H302	
	601-052-00-2	Carc. 2; H351	
		Aquatic Acute 1;	
		H400	
		Aquatic Chronic 1;	
		H410	
Substances with a workplace exposu	re limit :		
cellulose, ethyl ether	9004-57-3		>= 1 - < 10
-			

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
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 physician or poison control 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 physician. Wash contaminated clothing before re-use.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.
If swallowed	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.
•• •• • • •	

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	:	Aspiration may cause pulmonary	[,] oedema	and pneumonitis.
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4.3 Indication of any immediate medical 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: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Extinguishing media - 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.

5.2 Special hazards arising from the substance or mixture

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Specific hazards during firefighting	:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.
5.3 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: Accidental release measures

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	 Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water
	Retain and dispose of contaminated wash water.

6.4 Reference to other sections

For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 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.
7.2 Conditions for safe storage, ir	ncl	uding any incompatibilities
Requirements for storage areas and containers	:	No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.
7.3 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 controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
hydrocarbons, C10-C13, aromatics, <1% naphthalene	Not Assigned	TWA	8 ppm 50 mg/m3	Supplier
benzovindiflupyr (ISO)	1072957- 71-1	TWA	1 mg/m3	Syngenta
cellulose, ethyl ether	9004-57-3	TWA	10 mg/m3	Supplier

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naphthalene	91-20-3	TWA	10 ppm 50 mg/m3	91/322/EEC
	Further inform	ation: Indicative		

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
naphthalene	91-20-3	1-hydroxypyrene: 4 µmol/mol creatinine (Urine)	After shift	GB EH40 BAT

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
benzovindiflupyr (ISO)	Workers	Inhalation	Long-term systemic effects	0.478 mg/m3
	Workers	Inhalation	Acute systemic effects	1.13 mg/m3
	Workers	Dermal	Long-term systemic effects	3.33 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0.119 mg/m3
	Consumers	Dermal	Long-term systemic effects	1.67 mg/kg
	Consumers	Oral	Long-term systemic effects	0.049 mg/kg
mixture of octanoic acid- decanoic acid- N,N-dimethylamide	Workers	Inhalation	Long-term systemic effects	166.67 mg/m3
	Workers	Dermal	Long-term systemic effects	23.81 mg/kg
	Consumers	Inhalation	Long-term systemic effects	50 mg/m3
	Consumers	Dermal	Long-term systemic effects	14.29 mg/kg
	Consumers	Oral	Long-term systemic effects	14.29 mg/kg
poly(oxy-1,2- ethanediyl), alpha- (9Z)-9-octadecenyl- omega-hydroxy-	Workers	Inhalation	Long-term systemic effects	294 mg/m3
	Workers	Dermal	Long-term systemic effects	2080 mg/kg
	Consumers	Inhalation	Long-term systemic effects	87 mg/m3
	Consumers	Dermal	Long-term systemic effects	1250 mg/kg
	Consumers	Oral	Long-term systemic effects	25 mg/kg
hydrocarbons, C10-	Workers	Inhalation	Long-term systemic	151 mg/m3

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C13, aromatics, <1% naphthalene			effects	
	Workers	Dermal	Long-term systemic effects	12.5 mg/kg
	Consumers	Inhalation	Long-term systemic effects	32 mg/m3
	Consumers	Dermal	Long-term systemic effects	7.5 mg/kg
	Consumers	Oral	Long-term systemic effects	7.5 mg/kg
naphthalene	Workers	Inhalation	Long-term systemic effects	25 mg/m3
	Workers	Inhalation	Long-term local effects	25 mg/m3
	Workers	Dermal	Long-term systemic effects	3.57 mg/kg

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
benzovindiflupyr (ISO)	Fresh water	0.000095 mg/l
	Secondary poisoning	2 mg/kg
	Soil	0.041 mg/kg
	Marine water	0.000009 mg/l
	Fresh water sediment	0.053 mg/kg
	Sewage treatment plant	100 mg/l
	Marine sediment	0.005 mg/kg
mixture of octanoic acid- decanoic acid- N,N- dimethylamide	Fresh water	0.026 mg/l
	Marine water	0.0026 mg/l
	Intermittent use/release	0.077 mg/l
	Sewage treatment plant	2.12 mg/l
	Fresh water sediment	0.318 mg/kg
	Marine sediment	0.0318 mg/kg
	Soil	5.23 mg/kg
poly(oxy-1,2-ethanediyl), alpha- (9Z)-9-octadecenyl-omega- hydroxy-	Fresh water	0.002 mg/l
	Marine water	0.002 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	86.9 mg/kg
	Marine sediment	86.9 mg/kg
	Soil	1 mg/kg
	Freshwater - intermittent	0.1 mg/l
naphthalene	Fresh water	0.0024 mg/l
	Marine water	0.0024 mg/l
	Sewage treatment plant	2.9 mg/l
	Fresh water sediment	0.0672 mg/kg
	Marine sediment	0.0672 mg/kg

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Soil	0.0533 mg/kg

8.2 Exposure controls

Engineering measures

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Eye protection	:	Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded. Tightly fitting safety goggles Face-shield
Hand protection		
Material Break through time Glove thickness	:	Nitrile rubber > 480 min 0.5 mm
Remarks	:	Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Remove and wash contaminated clothing before re-use. Wear as appropriate: Impervious clothing
Respiratory protection	:	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Suitable respiratory equipment: Respirator with a half face mask The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when

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Protect	tive measures	contained breathi : The use of techni over the use of pe	luct. If this concentration is exceeded, self- ng apparatus must be used. cal measures should always have priority ersonal protective equipment. ersonal protective equipment, seek ssional advice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour		clear to slightly turbid amber to light brown
Odour Odour Threshold	:	No data available No data available
рН	:	4 - 8 Concentration: 1 % w/v
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	101 °C Method: Pensky-Martens closed
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	0.978 g/cm3 (25 °C)
Solubility(ies) Water solubility Solubility in other solvents		No data available No data available
Partition coefficient: n- octanol/water	:	No data available

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Auto-ig	gnition temperature	:	365 °C	
Decom	position temperature	:	No data available	e
Viscos Viso	ity cosity, dynamic	:	24.6 mPa.s (40 ° 70.7 mPa.s (20 °	
Vise	cosity, kinematic	:	>= 22.0 mm2/s (40 °C)
Explos	ive properties	:	Not explosive	
Oxidizi	ing properties	:	The substance o	r mixture is not classified as oxidizing.
Surfac	n formation e tension	:	, -	
Particle	e size		No data available	9

SECTION 10: Stability and reactivity

10.1 Reactivity None reasonably foreseeable.	
10.2 Chemical stability Stable under normal conditions.	
10.3 Possibility of hazardous reaction	IS
Hazardous reactions :	No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid	
Conditions to avoid :	No decomposition if used as directed.
10.5 Incompatible materials	
Materials to avoid :	None known.
10.6 Hazardous decomposition produ	icts
Hazardous decomposition : products	No hazardous decomposition products are known.

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SECTION 11: Toxicological information

11.1 Information on toxicologica	l effects
Information on likely routes of exposure	: Ingestion Inhalation Skin contact Eye contact
Acute toxicity	
Product:	
Acute oral toxicity	: LD50 (Rat, female): 1,086 mg/kg
Acute inhalation toxicity	 LC50 (Rat, male and female): > 2.54 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.
Acute dermal toxicity	: LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
Components:	
poly(oxy-1,2-ethanediyl), alp	ha-(9Z)-9-octadecenyl-omega-hydroxy-:
Acute oral toxicity	: LD50 (Mouse): Assessment: The component/mixture is moderately toxic after single ingestion.
benzovindiflupyr (ISO):	
Acute oral toxicity	: LD50 (Rat, female): 55 mg/kg
Acute inhalation toxicity	: LC50 (Rat, male and female): > 0.56 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
poly(oxy-1,2-ethanediyl), -[2	2,4,6-tris(1-phenylethyl)phenyl]hydroxy-:
Acute oral toxicity	: LD50 Oral (Rat): 5,000 mg/kg
naphthalene:	
Acute oral toxicity	: Assessment: The component/mixture is moderately toxic after single ingestion.

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Skin	corrosion/irritation		
Produ	uct:		
Speci		: Rabbit	
Resul	t	: No skin irritation	n
<u>Com</u>	oonents:		
mixtu	ire of octanoic acid-	decanoic acid- N,N-d	imethylamide:
Speci		: Rabbit	
Resul	t	: Irritating to skin	
hydro	ocarbons, C10-C13,	aromatics, <1% napht	halene:
Resul	t	: Repeated expo	sure may cause skin dryness or cracking.
benzo	ovindiflupyr (ISO):		
Speci		: Rabbit	
Resul	lt	: No skin irritation	1
Serio	us eye damage/eye	irritation	
<u>Produ</u>			
Speci		: Rabbit	ete en the eve
Resul	It	: Irreversible effe	icts on the eye
<u>Comp</u>	oonents:		
		decanoic acid- N,N-d	imethylamide:
Speci		: Rabbit	domogo to ovoc
Resul	it.	. RISK OF SETIOUS	damage to eyes.
		• • •	enyl-omega-hydroxy-:
Speci		: Rabbit	
Resul	t	: Risk of serious	damage to eyes.
benzo	ovindiflupyr (ISO):		
Speci		: Rabbit	
Resul	It	: No eye irritatior	1
Resp	iratory or skin sensi	itisation	
Produ	uct:		
Test			de assay (LLNA)
Speci		: Mouse	aitiantian by akin contact
Resul	IL	: way cause sen	sitisation by skin contact.

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<u>Com</u>	oonents:		
benz Test ⁻ Speci Resu	es	 mouse lymphoma cells Mouse Did not cause sensitisation on laborate 	ory animals.
Germ	cell mutagenicity		
<u>Com</u>	oonents:		
Germ	ovindiflupyr (ISO): cell mutagenicity- ssment	: Animal testing did not show any mutag	genic effects.
Germ	oxy-1,2-ethanediyl), cell mutagenicity- ssment	 [2,4,6-tris(1-phenylethyl)phenyl]hydrox In vitro tests did not show mutagenic e 	-
Carci	nogenicity		
<u>Com</u>	oonents:		
Carci	ovindiflupyr (ISO): nogenicity - ssment	: Weight of evidence does not support of carcinogen, This substance has been tumours in certain animal species., Th these findings are relevant to humans	reported to cause ere is no evidence t
Carci	thalene: nogenicity - ssment	: Limited evidence of carcinogenicity in	animal studies
cellu Carci	ose, ethyl ether: nogenicity - ssment	: No evidence of carcinogenicity in anim	nal studies.
Repr	oductive toxicity		
<u>Com</u>	oonents:		
Repro	ovindiflupyr (ISO): oductive toxicity - ssment	: No toxicity to reproduction	

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Components:	
mixture of octanoic acid-	lecanoic acid- N,N-dimethylamide:
Assessment	: The substance or mixture is classified as specific target org toxicant, single exposure, category 3 with respiratory tract irritation.
benzovindiflupyr (ISO):	
Assessment	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	
Components:	
benzovindiflupyr (ISO):	
Assessment	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity	
Components:	
benzovindiflupyr (ISO):	
Remarks	: No adverse effect has been observed in chronic toxicity test
Aspiration toxicity	
Components:	

SECTION 12: Ecological information

12.1 Toxicity

Product:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.068 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.27 mg/l Exposure time: 48 h
Toxicity to algae/aquatic	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 2.7

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plants		mg/l Exposure time: 72	2 h
		NOEC (Raphidoc 0.46 mg/l End point: Growth Exposure time: 72	
		EC10 (Raphidoce mg/l End point: Growth Exposure time: 72	
Compo	onents:		

mixture of octanoic acid- decanoic acid- N.N-dimethylamide:

mixture of octanoic acid- decanoic acid- N,N-dimethylamide:				
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 14.8 mg/l Exposure time: 96 h		
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 7.7 mg/l Exposure time: 48 h Test Type: static test		
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 16.06 mg/l Exposure time: 72 h		
hydrocarbons, C10-C13, aro	ma	itics, <1% naphthalene:		
Toxicity to fish	:	LL50 (Oncorhynchus mykiss (rainbow trout)): 3.6 mg/l Exposure time: 96 h Remarks: Information given is based on data obtained from similar substances.		
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 1.1 mg/l Exposure time: 48 h Remarks: Information given is based on data obtained from similar substances.		
Toxicity to algae/aquatic plants	:	EL50 (Raphidocelis subcapitata (freshwater green alga)): 7.9 mg/l End point: Growth rate Exposure time: 72 h Remarks: Information given is based on data obtained from similar substances.		
		NOELR (Raphidocelis subcapitata (freshwater green alga)): 0.22 mg/l End point: Growth rate Exposure time: 72 h		

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				Remarks: Information given is based on data obtained from similar substances.
		cicology Assessment c aquatic toxicity	:	Toxic to aquatic life with long lasting effects.
benzovindiflupyr (ISO): Toxicity to fish			:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0091 mg/l Exposure time: 96 h
				LC50 (Cyprinus carpio (Carp)): 0.0035 mg/l Exposure time: 96 h
		/ to daphnia and other invertebrates	:	EC50 (Americamysis): 0.056 mg/l Exposure time: 96 h
	Toxicity plants	/ to algae/aquatic	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 0.89 mg/l Exposure time: 96 h
				NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.42 mg/l End point: Growth rate Exposure time: 96 h
				ErC50 (Skeletonema costatum (marine diatom)): 0.55 mg/l Exposure time: 72 h
				NOEC (Skeletonema costatum (marine diatom)): 0.4 mg/l End point: Growth rate Exposure time: 72 h
	M-Fact toxicity	or (Acute aquatic)	:	100
			:	100
	Toxicity	/ to microorganisms	:	EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h
	Toxicity toxicity	y to fish (Chronic)	:	NOEC: 0.00095 mg/l Exposure time: 32 d Species: Pimephales promelas (fathead minnow) Test Type: Early-life Stage
	aquatio	y to daphnia and other invertebrates ic toxicity)	:	NOEC: 0.0074 mg/l Exposure time: 28 d Species: Americamysis

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			EC10: 0.012 mg/l Exposure time: 21 Species: Daphnia	l d magna (Water flea)	
	M-Factor (Chronic aquatic toxicity)	:	100 100		
	nah (ann 40 ath an a lint) - M				
	Toxicity to fish	2,4,9 :	6-tris(1-phenylethyl)phenyl]hydroxy-: LC50 (Danio rerio (zebra fish)): 21 mg/l Exposure time: 96 h		
	Ecotoxicology Assessment Chronic aquatic toxicity	:	Harmful to aquation	c life with long lasting effects.	
	naphthalene:				
	Ecotoxicology Assessment				
	Acute aquatic toxicity		Very toxic to aqua	tic life.	
	Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.		
12.2	Persistence and degradabil	ity			
	Components:				
	mixture of octanoic acid- de	car	noic acid- N,N-dim	ethylamide:	
	Biodegradability		Result: Readily bi	odegradable.	
	Stability in water	:	Remarks: Product is not persistent.		
	hydrocarbons, C10-C13, arc	oma	tics, <1% naphtha	llene:	
	Biodegradability	:	Result: Readily bi	odegradable.	
	benzovindiflupyr (ISO): Biodegradability		Result: Not readily	y biodegradable.	
12.3	Bioaccumulative potential				
	Components:				
	benzovindiflupyr (ISO): Bioaccumulation	:	Remarks: Does n	ot bioaccumulate.	
	Partition coefficient: n- octanol/water	:	log Pow: 4.3 (25 °	C)	

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12.4 Mob	oility in soil		
Com	ponents:		
mixt	ure of octanoic acid- de	canoic acid- N,N-di	methylamide:
Stab	ility in soil	: Remarks: Produ	ct is not persistent.
	zovindiflupyr (ISO):		
	ibution among ronmental compartments	: Remarks: Slight	y mobile in soils
12.5 Res	ults of PBT and vPvB as	ssessment	
Proc	duct:		
Asse	essment	to be either pers	nixture contains no components considered istent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
Com	ponents:		
benz	zovindiflupyr (ISO):		
Asse	essment	bioaccumulating	s not considered to be persistent, and toxic (PBT) This substance is not e very persistent and very bioaccumulating
poly	(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylet	hyl)phenyl]hydroxy-:
Asse	essment	bioaccumulating	s not considered to be persistent, and toxic (PBT) This substance is not every persistent and very bioaccumulating
napl	hthalene:		
-	essment	bioaccumulating	s not considered to be persistent, and toxic (PBT) This substance is not e very persistent and very bioaccumulating
	er adverse effects		
No d	lata available		

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Do not contaminate ponds, waterways or ditches with chemical or used container.

:

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		Where possible incineration.	of waste into sewer. recycling is preferred to disposal or of practicable, dispose of in compliance with s.
Contaminated packaging :		handling site for	5

SECTION 14: Transport information

14.1 UN number

	ADR	:	UN 3082
	RID	:	UN 3082
	IMDG	:	UN 3082
	ΙΑΤΑ	:	UN 3082
14.2	2 UN proper shipping name		
	ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZOVINDIFLUPYR)
	RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZOVINDIFLUPYR)
	IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZOVINDIFLUPYR)
	ΙΑΤΑ	:	Environmentally hazardous substance, liquid, n.o.s. (BENZOVINDIFLUPYR)
14.:	3 Transport hazard class(es)		
	ADR	:	9
	RID	:	9
	IMDG	:	9
	ΙΑΤΑ	:	9
14.4	4 Packing group		
	ADR Packing group Classification Code	:	III M6

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Labels Tunnel RID		Revision Date: 06.01.2022		0S Number: 0031536740
		Identification Number restriction code	:	90 9 (-)
	Classifi	cation Code Identification Number	:	M6 90 9
	IMDG Packing Labels EmS Co		:	III 9 F-A, S-F
	aircraft)	g instruction (cargo g instruction (LQ)	:	964 Y964 III Miscellaneous
	Packing (passer	Passenger) g instruction nger aircraft) g instruction (LQ) g group	:	964 Y964 III Miscellaneous
14.5	5 Enviro	nmental hazards		
	ADR Environ	mentally hazardous	:	yes
	RID Environ	mentally hazardous	:	yes
	IMDG			

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14.6 Special precautions for user The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

: yes

: yes

: yes

Not applicable for product as supplied.

Marine pollutant

IATA (Cargo)

IATA (Passenger)

Environmentally hazardous

Environmentally hazardous

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SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3 xylene
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	naphthalene
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL	100 t	200 t
	HAZARDS		

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

SECTION 16: Other information

Full text of H-Statements

H228 :	Flammable solid.
H301 :	Toxic if swallowed.
H302 :	Harmful if swallowed.
H304 :	May be fatal if swallowed and enters airways.
H315 :	Causes skin irritation.
H318 :	Causes serious eye damage.
H331 :	Toxic if inhaled.
H335 :	May cause respiratory irritation.
H351 :	Suspected of causing cancer.
H400 :	Very toxic to aquatic life.
H410 :	Very toxic to aquatic life with long lasting effects.

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Full text of other abbreviations				
H412	:	Harmful to aquatic life with long lasting effects.		
H411	:	Toxic to aquatic life with long lasting effects.		

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Carc.	:	Carcinogenicity
Eye Dam.	:	Serious eye damage
Flam. Sol.	:	Flammable solids
Skin Irrit.	:	Skin irritation
STOT SE	:	Specific target organ toxicity - single exposure
91/322/EEC	:	Europe. Commission Directive 91/322/EEC on establishing
		indicative limit values
GB EH40 BAT	:	UK. Biological monitoring guidance values
91/322/EEC / TWA	:	Limit Value - eight hours

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; 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; ISHL - Industrial Safety and Health Law (Japan); 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 Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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 Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; 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

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H318

H317

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Classification procedure:

Further informationClassification of the mixture:Acute Tox. 4H302Acute Tox. 4H332

Based on product data or assessment Based on product data or assessment Based on product data or assessment Based on product data or assessment

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN

Eye Dam. 1

Skin Sens. 1