

Version	Revision Date:
8.0	17.12.2019

SDS Number:
S00048150959

This version replaces all previous versions.

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

1.1 Product identifier

Trade name	:	AXIAL PRO
Design code	:	A21796A
Product Registration Number	:	MAPP 19010

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

Use of the	:	Herbicide
Substance/Mixture		

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)Skin irritation, Category 2H315: Causes skin irritation.Skin sensitisation, Sub-category 1AH317: May cause an allergic skin reaction.Reproductive toxicity, Category 2H361d: Suspected of damaging the unborn child.Long-term (chronic) aquatic hazard, Category 2H411: Toxic to aquatic life with long lasting effects.



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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	 H315 Causes skin irritation. H317 May cause an allergic skin reaction. H361d Suspected of damaging the unborn child. H411 Toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
		EUH208 Contains pinoxaden. May produce an allergic reaction.
Precautionary statements	:	Prevention:P201Obtain special instructions before use.P261Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.P264Wash skin thoroughly after handling.P280Wear protective gloves.
		Response: P308 + P313 IF exposed or concerned: Get medical advice/ attention. P391 Collect spillage.
		Disposal: P501 Dispose of contents/container to a licensed hazardous- waste disposal contractor or collection site except for empty triple rinsed clean containers which can be disposed of as non- hazardous waste.

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.	Classification	Concentration (% w/w)
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	Registration number		
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5 265-198-5 649-424-00-3 01-2119451151-53	Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 25 - < 30
2-methylpentane-2,4-diol	107-41-5 203-489-0 603-053-00-3 01-2119539582-35	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 10 - < 20
pinoxaden (ISO)	243973-20-8 607-726-00-2	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 Repr. 2; H361d STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor (Acute aquatic toxicity): 1	>= 3 - < 10
cloquintocet-mexyl	99607-70-2 01-2119381871-32	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 1 - < 2.5
naphthalene	91-20-3 202-049-5 601-052-00-2	Flam. Sol. 2; H228 Acute Tox. 4; H302 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1

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



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			warm and at rest. an or poison control centre immediately.
In cas	e of skin contact	Wash off imm If skin irritatio	ontaminated clothing immediately. ediately with plenty of water. n persists, call a physician. inated clothing before re-use.
In cas	e of eye contact	for at least 15 Remove cont	
lf swa	llowed	container or la	e vomiting: contains petroleum distillates and/or
4.2 Most i	mportant symptoms	and effects, both a	cute and delayed
Symp	toms	: Aspiration ma	y cause pulmonary oedema and pneumonitis.
4.3 Indicat	tion of any immedia	te medical attention	and special treatment needed

: 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 Specific hazards during	the :	e substance or mixture As the product contains combustible organic components, fire

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



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5.3 Advi	ce for firefighters			
Special protective equipment for firefighters		:	Wear full prote apparatus.	ctive clothing and self-contained breathing
Further information		:	courses.	un-off from fire fighting to enter drains or water ontainers exposed to fire with water spray.

SECTION 6: Accidental release measures

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.
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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.
		For personal protection see section 8.

7.2 Conditions for safe storage, including 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.
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7.3 Specific end use(s)

Specific use(s)

: For proper and safe use of this product, please refer to the



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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
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5	TWA	8 ppm 50 mg/m3	Supplier
2-methylpentane- 2,4-diol	107-41-5	TWA	25 ppm 123 mg/m3	GB EH40
	107-41-5	STEL	25 ppm 123 mg/m3	GB EH40

Further information	Substances used as active ingredients in pesticides are listed under their systematic chemical names and/or their (ISO) common names. These may sometimes be used as parts of the names of proprietary pesticide formulations. In all cases, the exposure limit applies to the specific active ingredient in the workplace atmosphere and not the formulation as a whole.							
pinoxaden (ISO)	243973-20- 8	243973-20- TLV-C 0.1 mg/m3 Syngenta						
Further information	Substances used as active ingredients in pesticides are listed under their systematic chemical names and/or their (ISO) common names. These may sometimes be used as parts of the names of proprietary pesticide formulations. In all cases, the exposure limit applies to the specific active ingredient in the workplace atmosphere and not the formulation as a whole.							
cloquintocet-mexyl	99607-70-2							
naphthalene	91-20-3	TWA	10 ppm 50 mg/m3	91/322/EEC				
Further information	Indicative							

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
tris(2-ethylhexyl) phosphate	Workers	Inhalation	Long-term systemic effects	350 mg/m3
	Workers	Inhalation	Acute systemic effects	2800 mg/m3
	Workers	Dermal	Long-term systemic effects	50 mg/kg
	Workers	Dermal	Acute systemic effects	40 mg/kg
	Consumers	Dermal	Acute systemic effects	200 mg/kg
	Consumers	Dermal	Long-term systemic effects	25 mg/kg
	Consumers	Inhalation	Acute systemic effects	500 mg/m3



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	Consumers	Inhalation	Long-term systemic effects	62.5 mg/m3
	Consumers	Oral	Acute systemic effects	200 mg/kg
	Consumers	Oral	Long-term systemic effects	25 mg/kg
2-methylpentane-2,4- diol	Workers	Inhalation	Short-term exposure, Local effects	98 mg/m3
	Workers	Inhalation	Long-term systemic effects	14 mg/m3
	Workers	Inhalation	Long-term local effects	49 mg/m3
	Workers	Dermal	Long-term systemic effects	2 mg/kg
	Consumers	Inhalation	Short-term exposure, Local effects	49 mg/m3
	Consumers	Inhalation	Long-term systemic effects	3.5 mg/m3
	Consumers	Inhalation	Long-term local effects	25 mg/m3
	Consumers	Oral	Long-term systemic effects	1 mg/kg
	Consumers	Dermal	Long-term systemic effects	1 mg/kg
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	Industrial use	Dermal	Long-term systemic effects	12.5 mg/kg
· ·	Industrial use	Inhalation	Long-term systemic effects	151 mg/m3
	Consumers	Dermal	Long-term systemic effects	7.5 mg/kg
	Consumers	Oral	Long-term systemic effects	32 mg/m3
	Consumers	Inhalation	Long-term systemic effects	7.5 mg/kg
cloquintocet-mexyl	Industrial use	Dermal	Long-term exposure, Systemic effects	3.33 mg/kg
	Industrial use	Inhalation	Long-term exposure, Systemic effects	0.303 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
tris(2-ethylhexyl) phosphate	Sewage treatment plant	1 mg/l
2-methylpentane-2,4-diol	Fresh water	0.429 mg/l
	Marine water	0.0429 mg/l
	Fresh water sediment	1.79 mg/kg
	Marine sediment	0.179 mg/kg
	Soil	0.11 mg/kg
cloquintocet-mexyl	Fresh water	0.0018 mg/l
	Fresh water sediment	0.934 mg/kg dry
		weight (d.w.)
	Marine water	0.00018 mg/l



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Marine sediment	0.0934 mg/kg dry weight (d.w.)
Soil	0.463 mg/kg dry weight (d.w.)

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

: No special protective equipment required.

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. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
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	:	No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.



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Prote	ctive measures	over the use of When selecting	nical measures should always have priority personal protective equipment. personal protective equipment, seek fessional advice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	clear to opalescent
Colour	:	light yellow
Odour	:	aromatic
Odour Threshold	:	No data available
рН	:	3 - 7 Concentration: 1 % w/v
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	104 °C Method: Pensky-Martens closed cup
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	:	0.95 - 0.99 g/cm3 (20 °C)
Solubility(ies) Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	370 °C



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Deco	omposition temperature	:	No data availab	e
Visco	,			
V	ïscosity, dynamic	:	No data availab	e
V	iscosity, kinematic	:	22.7 mm2/s (40	°C)
Explo	osive properties	:	Not explosive	
Oxid	izing properties	:	The substance of	or mixture is not classified as oxidizing.
	r information ata available			
SECTIO	N 10: Stability and re	activ	vity	
10.1 Rea	ctivity			
None	e reasonably foreseeable	Э.		
10.2 Che	mical stability			
Stab	le under normal condition	ns.		
10.3 Pos	sibility of hazardous re	actio	ons	
Haza	ardous reactions	:	No dangerous re	eaction known under conditions of normal use.
10.4 Con	ditions to avoid			
Cond	ditions to avoid	:	No decomposition	on if used as directed.
10.5 Inco	mpatible materials			
Mate	erials to avoid	:	None known.	
10.6 Haza	ardous decomposition	prod	lucts	
Haza prod	ardous decomposition ucts	:	No hazardous d	ecomposition products are known.
SECTIO	N 11: Toxicological ii	nforr	mation	
11.1 Info	rmation on toxicologica	al eff	ects	
	mation on likely routes of		Ingestion	
expo	-		Inhalation Skin contact Eye contact	
Acut	te toxicity			
Prod	luct:			
	e oral toxicity	:		le): > 2,000 mg/kg e substance or mixture has no acute oral



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		toxicity Remarks: The toxicological data has been taken from products of similar composition.
Acute	inhalation toxicity	: Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute	dermal toxicity	 LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute derma toxicity Remarks: The toxicological data has been taken from products of similar composition.
<u>Comp</u>	onents:	
2-met	hylpentane-2,4-diol:	
Acute	oral toxicity	: LD50 Oral (Rat): 2,000 mg/kg
Acute	dermal toxicity	: LD50 Dermal (Rat): 2,000 mg/kg
pinox	aden (ISO):	
Acute	oral toxicity	 Acute toxicity estimate: 500 mg/kg Method: Acute toxicity estimate according to Regulation (EC No. 1272/2008
Acute	inhalation toxicity	: LC50 (Rat, male): 4.63 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 derma toxicity
-	intocet-mexyl:	
Acute	oral toxicity	: LD50 (Rat, male and female): > 5,000 mg/kg
Acute	inhalation toxicity	 LC50 (Rat, male and female): > 0.935 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixture is moderately toxic af short term inhalation. Remarks: Highest attainable concentration
Acute	dermal toxicity	 LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute derma toxicity
napht	halene:	
Acute	oral toxicity	: Assessment: The component/mixture is moderately toxic af



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		single ingestion	
Skin o	corrosion/irritation		
<u>Produ</u>	<u>ict:</u>		
Specie		: Rabbit	
Resul [:] Rema		 Irritating to skin. The toxicologica composition. 	al data has been taken from products of simil
<u>Comp</u>	oonents:		
2-met	hylpentane-2,4-diol:		
Specie		: Rabbit	
Resul		: Irritating to skin.	
pinox	aden (ISO):		
Metho	d	: Based on Huma	in Evidence
Resul	t	: Irritating to skin.	
cloqu	intocet-mexyl:		
Specie		: Rabbit	
Resul	t	: No skin irritatior	1
Serio	us eye damage/eye i	rritation	
<u>Produ</u>	<u>ict:</u>		
Speci		: Rabbit	
Resul [·] Rema		: No eye irritation	al data has been taken from products of simi
Rema	113	composition.	a data has been taken nom products of sinn
Comp	onents:		
2-met	hylpentane-2,4-diol:		
Specie		: Rabbit	
Resul	t	: Irritation to eyes	, reversing within 21 days
pinox	aden (ISO):		
Speci		: Rabbit	
Resul	t	: Irritation to eyes	, reversing within 21 days
cloqu	intocet-mexyl:		
Speci		: Rabbit	
Resul	ł	: No eye irritation	



Respiratory or skin sensitisation Product: Test Type : Buehler Test Species : Guinea pig Result : The product is a skin sensitiser, sub-category 1A. Remarks : The toxicological data has been taken from products of sim composition. Components: : mouse lymphoma cells species : Mouse Result : The product is a skin sensitiser, sub-category 1A. Test Type : mouse lymphoma cells Species : Mouse Result : The product is a skin sensitiser, sub-category 1A. Test Type : Mouse Result : Does not cause respiratory sensitisation. Result : Does not cause respiratory sensitisation. Remarks : Experience with human exposure Cloquintocet-mexyl: : May cause sensitisation by skin contact. Germ cell mutagenicity- : In vitro tests did not show mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Assessment : Anim	rsion)	Revision Date: 17.12.2019		DS Number: 00048150959	This version replaces all previous versior
Test Type : Buehler Test Species : Guinea pig Result : The product is a skin sensitiser, sub-category 1A. Remarks : The toxicological data has been taken from products of sim composition. Components: : The toxicological data has been taken from products of sim composition. Components: : The toxicological data has been taken from products of sim composition. Species : Mouse Result : The product is a skin sensitiser, sub-category 1A. Test Type : mouse lymphoma cells Species : Mouse Result : The product is a skin sensitiser, sub-category 1A. Test Type : Respiratory sensitisation Result : Does not cause respiratory sensitisation. Result : Does not cause respiratory sensitisation. Result : May cause sensitisation by skin contact. Germ cell mutagenicity : May cause sensitisation by skin contact. Germ cell mutagenicity- : In vitro tests did not show any mutagenic effects. Assessesment : Anim	Resp	iratory or skin sensit	isatio	on	
Species : Guinea pig Result : The product is a skin sensitiser, sub-category 1A. Remarks : The toxicological data has been taken from products of sim composition. Components: : The toxicological data has been taken from products of sim composition. Fest Type : mouse lymphoma cells Species : Mouse Result : The product is a skin sensitiser, sub-category 1A. Test Type : Mouse Result : The product is a skin sensitiser, sub-category 1A. Test Type : Respiratory sensitisation Result : Does not cause respiratory sensitisation. Result : Does not cause respiratory sensitisation. Remarks : Experience with human exposure cloquintocet-mexyl: : Species Species : Guinea pig Result : May cause sensitisation by skin contact. Germ cell mutagenicity : In vitro tests did not show mutagenic effects Assessment : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not sho	Prod	uct:			
Result : The product is a skin sensitiser, sub-category 1A. Remarks : The toxicological data has been taken from products of sim composition. Components: : The toxicological data has been taken from products of sim composition. Pinoxaden (ISO): : mouse lymphoma cells Species : Mouse Result : The product is a skin sensitiser, sub-category 1A. Test Type : Mouse Result : The product is a skin sensitiser, sub-category 1A. Test Type : Respiratory sensitisation Result : Does not cause respiratory sensitisation. Remarks : Experience with human exposure cloquintocet-mexyl: : Guinea pig Result : May cause sensitisation by skin contact. Germ cell mutagenicity : May cause sensitisation by skin contact. Germ cell mutagenicity- : In vitro tests did not show mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Carcinogenicity : Animal testing did not show any mutagenic effects. Assessment : Carcinogenicity - Assessment Carcinogenicity - Assessment : Weight of evidence does n			:		
Remarks : The toxicological data has been taken from products of sim composition. Components: pinoxaden (ISO): Test Type : mouse lymphoma cells Species : Mouse Result : The product is a skin sensitiser, sub-category 1A. Test Type : Respiratory sensitisation Result : Does not cause respiratory sensitisation. Result : Does not cause respiratory sensitisation. Remarks : Experience with human exposure Cloquintocet-mexyl: : Species : Guinea pig Result : May cause sensitisation by skin contact. Germ cell mutagenicity : May cause sensitisation by skin contact. Germ cell mutagenicity- : In vitro tests did not show mutagenic effects Assessment : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Components: : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Carcinogenicity : Animal testing did not show any mutagenic effects. Assessment <td></td> <td></td> <td>:</td> <td></td> <td></td>			:		
Components: pinoxaden (ISO): Test Type : Result : Prest Type : Result : Pose not cause respiratory sensitisation. Result : Does not cause respiratory sensitisation. Result : Species : Species : Species : Guinea pig Result : May cause sensitisation by skin contact. Germ cell mutagenicity- : Animal testing did not show mutagenic effects. Assessment : Cloquintocet-mexyl: : Germ cell mutagenicity- : Assessment : Carcinogenicity : <td></td> <td></td> <td></td> <td></td> <td></td>					
pinoxaden (ISO): Imouse lymphoma cells Species Mouse Result The product is a skin sensitiser, sub-category 1A. Test Type Result Result Does not cause respiratory sensitisation. Result Experience with human exposure Cloquintocet-mexyl: Experience with human exposure Species : Guinea pig Result : May cause sensitisation by skin contact. Germ cell mutagenicity : May cause sensitisation by skin contact. Germ cell mutagenicity- : In vitro tests did not show mutagenic effects Assessment : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Carcinogenicity- : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Carcinogenicity : Animal testing did not show any mutagenic effects. Assessment : : Animal testing did not show any mutagenic effects. Carcinogenicity : : Animal testing did not show any mutagenic effects.	Rema	arks	·		al data has been taken nom products of sim
Test Type:mouse lymphoma cellsSpecies:MouseResult:The product is a skin sensitiser, sub-category 1A.Test Type:Respiratory sensitisationResult:Does not cause respiratory sensitisation.Remarks:Experience with human exposurecloquintocet-mexyl::Species:Guinea pigResult:May cause sensitisation by skin contact.Germ cell mutagenicity:Z-methylpentane-2,4-diol::Germ cell mutagenicity-:In vitro tests did not show mutagenic effectsAssessment:Pinoxaden (ISO)::Germ cell mutagenicity-:Assessment:Animal testing did not show any mutagenic effects.Assessment:Carcinogenicity:Assessment:Carcinogenicity:Carcinogenicity:Carcinogenicity:Carcinogenicity-:Assessment:Pinoxaden (ISO)::Pinoxaden (ISO)::Pinoxaden (ISO)::	Com	oonents:			
Species : Mouse Result : The product is a skin sensitiser, sub-category 1A. Test Type : Respiratory sensitisation Result : Does not cause respiratory sensitisation. Remarks : Experience with human exposure cloquintocet-mexyl: : Species : Guinea pig Result : May cause sensitisation by skin contact. Germ cell mutagenicity : 2-methylpentane-2,4-diol: : Germ cell mutagenicity- : In vitro tests did not show mutagenic effects Assessment : pinoxaden (ISO): : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Carcinogenicity : Animal testing did not show any mutagenic effects. Assessment : Experience does not support classification as a carcinogen pinoxaden (ISO): : Weight of evidence does not support classification as a carcinogen	pinox	aden (ISO):			
Result : The product is a skin sensitiser, sub-category 1A. Test Type : Respiratory sensitisation Result : Does not cause respiratory sensitisation. Remarks : Experience with human exposure cloquintocet-mexyl: : Species : Guinea pig Result : May cause sensitisation by skin contact. Germ cell mutagenicity : May cause sensitisation by skin contact. Germ cell mutagenicity- : In vitro tests did not show mutagenic effects Assessment : In vitro tests did not show any mutagenic effects. pinoxaden (ISO): : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Carcinogenicity : Animal testing did not show any mutagenic effects. Assessment : Carcinogenicity - Assessment 2-methylpentane-2,4-diol: : Carcinogenicity - Second carcinogen 2-methylpentane-2,4-diol:			:	mouse lympho	ma cells
Test Type : Result and the service of the service	•		:		
Result : Does not cause respiratory sensitisation. Remarks : Experience with human exposure cloquintocet-mexyl: : Experience with human exposure Species : Guinea pig Result : May cause sensitisation by skin contact. Germ cell mutagenicity : May cause sensitisation by skin contact. Germ cell mutagenicity- : In vitro tests did not show mutagenic effects Assessment : In vitro tests did not show any mutagenic effects. pinoxaden (ISO): : Animal testing did not show any mutagenic effects. Germ cell mutagenicity- : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Carcinogenicity : Animal testing did not show any mutagenic effects. Carcinogenicity : Animal testing did not show any mutagenic effects. Carcinogenicity : Animal testing did not show any mutagenic effects. Carcinogenicity : Animal testing did not show any mutagenic effects. Carcinogenicity : : Weight of evidence does not support classification as a carcinogen	Resu	t		The product is	a skin sensitiser, sub-category 1A.
Remarks : Experience with human exposure cloquintocet-mexyl: Species Species : Guinea pig Result : May cause sensitisation by skin contact. Germ cell mutagenicity : Components: : 2-methylpentane-2,4-diol: : Germ cell mutagenicity- : Assessment : pinoxaden (ISO): : Germ cell mutagenicity- : Assessment : Cloquintocet-mexyl: : Germ cell mutagenicity- : Assessment : Cloquintocet-mexyl: : Germ cell mutagenicity- : Assessment : Carcinogenicity : Assessment : Carcinogenicity : Assessment : Servertaine : Veight of evidence does not support classification as a carcinogen pinoxaden (ISO): :			:		
Cloquintocet-mexyl: Species Result: Guinea pig May cause sensitisation by skin contact.Germ cell mutagenicity Components:: In vitro tests did not show mutagenic effects Assessment2-methylpentane-2,4-diol: Germ cell mutagenicity- Assessment: In vitro tests did not show mutagenic effectspinoxaden (ISO): Germ cell mutagenicity- Assessment: Animal testing did not show any mutagenic effects.Cloquintocet-mexyl: 		•	:		
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Result : May cause sensitisation by skin contact. Germ cell mutagenicity : 2-methylpentane-2,4-diol: : Germ cell mutagenicity- : Assessment : pinoxaden (ISO): : Germ cell mutagenicity- : Assessment : Pinoxaden (ISO): : Germ cell mutagenicity- : Assessment : Cloquintocet-mexyl: : Germ cell mutagenicity- : Assessment : Carcinogenicity : Carcinogenicity : Carcinogenicity : Carcinogenicity- : Assessment : Pinoxaden (ISO): :	cloqu	iintocet-mexyl:			
Germ cell mutagenicity Components: 2-methylpentane-2,4-diol: Germ cell mutagenicity- Assessment pinoxaden (ISO): Germ cell mutagenicity- Assessment cloquintocet-mexyl: Germ cell mutagenicity- Assessment cloquintocet-mexyl: Germ cell mutagenicity- Assessment cloquintocet-mexyl: Germ cell mutagenicity- Assessment Carcinogenicity Carcinogenicity Carcinogenicity- Assessment Veight of evidence does not support classification as a carcinogen pinoxaden (ISO):	Speci	es	:	Guinea pig	
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2-methylpentane-2,4-diol: Germ cell mutagenicity- Assessment: In vitro tests did not show mutagenic effects pinoxaden (ISO): Germ cell mutagenicity- Assessment: Animal testing did not show any mutagenic effects. cloquintocet-mexyl: Germ cell mutagenicity- Assessment: Animal testing did not show any mutagenic effects. Cloquintocet-mexyl: Germ cell mutagenicity- Assessment: Animal testing did not show any mutagenic effects. Cloquintocet-mexyl: Germ cell mutagenicity- Assessment: Mimal testing did not show any mutagenic effects. Carcinogenicity Components: Carcinogenicity - Assessment: Weight of evidence does not support classification as a carcinogen pinoxaden (ISO): : Weight of evidence does not support classification as a carcinogen	Germ	cell mutagenicity			
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Assessment image: i	2-met	thylpentane-2,4-diol:			
Assessment image: i	Germ	cell mutagenicity-	:	In vitro tests di	d not show mutagenic effects
Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects. cloquintocet-mexyl: Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects. Carcinogenicity Components: 2-methylpentane-2,4-diol: Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen pinoxaden (ISO): :					
Assessment Image: Cloquintocet-mexyl: Germ cell mutagenicity- : Animal testing did not show any mutagenic effects. Assessment : Animal testing did not show any mutagenic effects. Carcinogenicity : Components: 2-methylpentane-2,4-diol: : Weight of evidence does not support classification as a carcinogen pinoxaden (ISO): : Weight of evidence does not support classification as a carcinogen	pinox	aden (ISO):			
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Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects. Carcinogenicity : Components: : 2-methylpentane-2,4-diol: Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen pinoxaden (ISO):	Asses	ssment			
Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects. Carcinogenicity : Components: : 2-methylpentane-2,4-diol: Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen pinoxaden (ISO):	cloau	iintocet-mexvl:			
Assessment Carcinogenicity Components: 2-methylpentane-2,4-diol: Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen pinoxaden (ISO):	-	-		Animal testing	did not show any mutagenic effects.
Components: 2-methylpentane-2,4-diol: Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen pinoxaden (ISO):		• •	•	i initia tooting	
2-methylpentane-2,4-diol: Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen pinoxaden (ISO):	Carci	nogenicity			
Carcinogenicity - : Weight of evidence does not support classification as a carcinogen pinoxaden (ISO):	<u>Com</u>	oonents:			
Carcinogenicity - : Weight of evidence does not support classification as a carcinogen pinoxaden (ISO):	2-me	thylpentane-2,4-diol:			
Assessment carcinogen pinoxaden (ISO):			:	Weight of evide	ence does not support classification as a
		• •		-	••
	pinov	aden (ISO):			
	-			No evidence of	carcinogenicity in animal studies



Assessment cloquintocet-mexyl: Carcinogenicity - Assessment naphthalene: Carcinogenicity - Carcinogenicity - Assessment Reproductive toxicity Components: 2-methylpentane-2,4-diol: Reproductive toxicity - Reproductive toxicity - Reproductive toxicity - Assessment pinoxaden (ISO): Reproductive toxicity - Assessment Stot - single exposure Components: pinoxaden (ISO): Reproductive toxicity - Stot - single exposure Components: pinoxaden (ISO):	ersions.
Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies. naphthalene: Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies Reproductive toxicity : Limited evidence of carcinogenicity in animal studies Reproductive toxicity : Components: 2-methylpentane-2,4-diol: Reproductive toxicity - Assessment : No toxicity to reproduction pinoxaden (ISO): Reproductive toxicity - Assessment : No toxicity to reproduction Assessment : No toxicity to reproduction Stot - single exposure : No toxicity to reproduction Components: : No toxicity to reproduction	
Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies Assessment : Limited evidence of carcinogenicity in animal studies Reproductive toxicity : Components: 2-methylpentane-2,4-diol: : No toxicity to reproduction Reproductive toxicity - Assessment : No toxicity to reproduction pinoxaden (ISO): : No toxicity to reproduction Assessment : No toxicity to reproduction Assessment : No toxicity to reproduction Assessment : No toxicity to reproduction Stot - single exposure : No toxicity to reproduction Components: : No toxicity to reproduction	
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Reproductive toxicity - : No toxicity to reproduction Assessment : No toxicity to reproduction cloquintocet-mexyl: : No toxicity to reproduction Reproductive toxicity - : No toxicity to reproduction Assessment : No toxicity to reproduction STOT - single exposure : Components:	
Reproductive toxicity - : No toxicity to reproduction Assessment : STOT - single exposure Components: : Components:	
<u>Components:</u>	
pinoxaden (ISO):	
Assessment : Based on Human Evidence, The substance or mixture classified as specific target organ toxicant, single expo category 3 with respiratory tract irritation.	
Remarks : Breathing difficulties Cough Acute irritation of the respiratory system leading to tigh the chest and an asthmatic condition.	itness o
cloquintocet-mexyl: Assessment : The substance or mixture is not classified as specific ta organ toxicant, single exposure.	arget
STOT - repeated exposure	
Components:	
pinoxaden (ISO): Assessment : The substance or mixture is not classified as specific tagged and the substance or mixture is not classified as specific tagged.	arget



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		organ toxicant,	repeated exposure.
cloqu	uintocet-mexyl:		
•	et Organs ssment		Liver or mixture is classified as specific target organ ed exposure, category 2.
Aspi	ration toxicity		
<u>Com</u>	ponents:		
	ent naphtha (petrole be fatal if swallowed a	um), heavy arom.; Ker and enters airways.	osine — unspecified:

SECTION 12: Ecological information

12.1 Toxicity

Product:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 19 mg/l Exposure time: 96 h Remarks: Information given is based on data obtained from similar substances.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.8 mg/l Exposure time: 48 h Remarks: Information given is based on data obtained from similar substances.
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 32 mg/l Exposure time: 72 h Remarks: Information given is based on data obtained from similar substances. NOEC (Pseudokirchneriella subcapitata (green algae)): 5.5 mg/l
Components:		Exposure time: 72 h Remarks: Information given is based on data obtained from similar substances.

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Ecotoxicology Assessment

Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.
pinoxaden (ISO): Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 10.3 mg/l
	·	



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			Exposure time: 96	3 h
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 52 mg/l 3 h
Toxicit <u>y</u> plants	/ to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72	chneriella subcapitata (green algae)): 41 2 h
			ErC50 (Skeletone Exposure time: 72	ma costatum (marine diatom)): 1.72 mg/l 2 h
			NOEC (Skeletone End point: Growth Exposure time: 96	
			NOEC (Lemna git End point: Growth Exposure time: 7	
M-Fact toxicity	or (Acute aquatic)	:	1	
Toxicity toxicity	y to fish (Chronic)	:	NOEC: 6.6 mg/l Exposure time: 28 Species: Oncorhy	d nchus mykiss (rainbow trout)
cloqui	ntocet-mexyl:			
Toxicity	/ to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 0.97 mg/l δ h
			LC50 (Gobiocypri Exposure time: 96	s rarus (rare gudgeon)): 0.102 mg/l S h
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 0.82 mg/l 3 h
Toxicity plants	y to algae/aquatic	:	ErC50 (Desmode Exposure time: 72	smus subspicatus (green algae)): > 2.2 mg/l 2 h
			NOEC (Desmode End point: Growth Exposure time: 72	
M-Fact toxicity	or (Acute aquatic)	:	1	
Toxicity	y to microorganisms	:	EC50 (activated s Exposure time: 3	ludge): > 1,000 mg/l h
aquatio	y to daphnia and other invertebrates ic toxicity)	:	NOEC: > 0.437 m Exposure time: 21 Species: Daphnia	d



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M-Fae toxicit	ctor (Chronic aquatic y)	:	1	
naph	thalene:			
	aquatic toxicity	:	Very toxic to aqu	atic life.
Chror	nic aquatic toxicity	:	Very toxic to aqu	atic life with long lasting effects.
12.2 Persi	stence and degradabil	ity		
Com	oonents:			
	t hylpentane-2,4-diol: gradability	:	Result: Readily b	iodegradable.
•	a den (ISO): gradability	:	Result: rapidly de	gradable
Stabil	ity in water	:	Degradation half Remarks: Produc	life: 0.3 d t is not persistent.
-	iintocet-mexyl: gradability	:	Result: Not readi	ly biodegradable.
Stabil	ity in water	:	Degradation half Remarks: Produc	life: 0.4 d ct is not persistent.
12.3 Bioad	ccumulative potential			
<u>Com</u>	oonents:			
-	aden (ISO): cumulation	:	Remarks: Low bi	oaccumulation potential.
-	iintocet-mexyl: cumulation	:	Remarks: Does r	not bioaccumulate.
	on coefficient: n- ol/water	:	log Pow: 5.24 (25	5 °C)
12.4 Mobi	lity in soil			
Com	oonents:			
Distrit	a den (ISO): oution among onmental compartments	:	Remarks: Moder	ately mobile in soils



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Stabil	ity in soil	:		e: 0.1 - 1.8 d sipation: 50 % (DT50) uct is not persistent.
cloqu	intocet-mexyl:			
	oution among onmental compartments	:	Remarks: immo	bile
Stabil	ity in soil	:	Dissipation time: 2.4 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.	
12.5 Resu	Its of PBT and vPvB as	sse	ssment	
<u>Produ</u> Asses	<u>uct:</u> ssment	:	to be either pers	mixture contains no components considered sistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of
Comp	oonents:		-	
	thylpentane-2,4-diol:			
	ssment	:	bioaccumulating	is not considered to be persistent, g and toxic (PBT) This substance is not e very persistent and very bioaccumulating
pinox	aden (ISO):			
Asses	ssment	:	This substance is not considered to be persistent, bioaccumulating and toxic (PBT) This substance is not considered to be very persistent and very bioaccumulating (vPvB)	
cloqu	iintocet-mexyl:			
Asses	ssment	:	bioaccumulating	is not considered to be persistent, g and toxic (PBT) This substance is not e very persistent and very bioaccumulating
	r adverse effects ata 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 possib incineration.	e of waste into sewer. le recycling is preferred to disposal or not practicable, dispose of in compliance with ns.
Cont	aminated packaging	handling site f	•
Wast	e Code	: 15 01 10, pac by hazardous	kaging containing residues of or contaminated substances

SECTION 14: Transport information

14.1 UN number

	ADN	:	UN 3082
	ADR	:	UN 3082
	RID	:	UN 3082
	IMDG	:	UN 3082
	ΙΑΤΑ	:	UN 3082
14.2	UN proper shipping name		
	ADN	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
			(CLOQUINTOCET-MEXYL AND SOLVENT NAPHTHA)
	ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
			(CLOQUINTOCET-MEXYL AND SOLVENT NAPHTHA)
	RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
			(CLOQUINTOCET-MEXYL AND SOLVENT NAPHTHA)
	IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
			(CLOQUINTOCET-MEXYL AND SOLVENT NAPHTHA)
	ΙΑΤΑ	:	Environmentally hazardous substance, liquid, n.o.s. (CLOQUINTOCET-MEXYL AND SOLVENT NAPHTHA)
14.3	Transport hazard class(es)		
	ADN	:	9
	ADR	:	9
	RID	:	9
	IMDG	:	9

according to Regulation (EC) No. 1907/2006



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IATA	A	:	9	
14.4 Pac	king group			
Clas	king group sification Code ard Identification Number	: :	III M6 90 9	
Clas Haza Labe	king group sification Code ard Identification Number	: : : : : : : : : : : : : : : : : : : :	III M6 90 9 (-)	
Clas	king group sification Code ard Identification Number els	: : :	III M6 90 9	
Labe	king group	:	III 9 F-A, S-F	
Pack aircr Pack	king instruction (LQ) king group	:	964 Y964 III Class 9 - Miscel	laneous dangerous substances and articles
Pacł (pas Pacł	A_P (Passenger) king instruction senger aircraft) king instruction (LQ) king group els	: : :	964 Y964 III Class 9 - Miscel	laneous dangerous substances and articles
14.5 Env	ironmental hazards			
ADN Envi	I ronmentally hazardous	:	yes	
ADR Envi	R ronmentally hazardous	:	yes	
RID Envi	ronmentally hazardous	:	yes	
IMD Mari	G ne pollutant	:	yes	
ΙΑΤΑ	A (Passenger) ronmentally hazardous	:	yes	
	A (Cargo)			



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Environmentally hazardous : yes

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Subs Concern for Authorisation (Article	:	Not applicable				
REACH - List of substances subj (Annex XIV)	REACH - List of substances subject to authorisation (Annex XIV)					
Regulation (EC) No 1005/2009 o deplete the ozone layer	n substances that	:	Not applicable			
Regulation (EC) No 850/2004 on pollutants	persistent organic	:	Not applicable			
Regulation (EC) No 649/2012 of Parliament and the Council conc import of dangerous chemicals	:	Not applicable				
REACH - Restrictions on the main the market and use of certain date preparations and articles (Annex	:	Conditions of restr following entries sl considered: Number on list 3				
Seveso III: Directive 2012/18/EU major-accident hazards involving		and of the Council				
E2	ENVIRONMENTAL HAZARDS		Quantity 1 200 t	Quantity 2 500 t		
34	Petroleum products: (a gasolines and naphtha (b) kerosenes (includin fuels), (c) gas oils (including diesel fuels, home heating oils and oil blending streams),(a heavy fuel oils (e) alternative fuels servin same purposes and wi similar properties as regards flammability an environmental hazards		e	25,000 t		



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the products referred to in points (a) to (d)

Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Use plant protection products safely. Always read the label and product information before use.

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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.
H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H332	:	Harmful if inhaled.
H335	:	May cause respiratory irritation.
H351	:	Suspected of causing cancer.
H361d	:	Suspected of damaging the unborn child.
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.
H411	:	Toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.
Full text of other abbreviation	ns	
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 Irrit.	:	Eye irritation
Flam. Sol.	:	Flammable solids
Repr.	:	Reproductive toxicity
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure



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STO 91/32	T SE 22/EEC		organ toxicity - single exposure ission Directive 91/322/EEC on establishing /alues
GB E	EH40 22/EEC / TWA EH40 / TWA EH40 / STEL	: Limit Value - ei : Long-term expo	Workplace Exposure Limits ght hours osure limit (8-hour TWA reference period) osure limit (15-minute reference period)

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; AICS - Australian Inventory of Chemical Substances; 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations: vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the n	nixture:	Classification procedure:
Skin Irrit. 2	H315	Based on product data or assessment
Skin Sens. 1A	H317	Based on product data or assessment
Repr. 2	H361d	Calculation method
Aquatic Chronic 2	H411	Calculation method

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



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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.

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