

Version 2.5 PRD	Revision Date: 05.01.2023	150	S Number: 0000093409 GAU / EN / 0001	Date of last issue: 09.03.2021 Date of first issue: 02.02.2015		
SECTION	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION					
Produc	ct name	:	Skydrol® LD4 Fi	re Resistant Hydraulic Fluid		
Product code		:	34102-00, P3410207, P3410200, P3410206, P3410204, P3410202, P3410205, P3410203, E3410201, P3410208, P3410209			
Manu	facturer or supplier's o	detai	ils			
Compa	any	:	Eastman Chemic	al Company		
Addres	SS	:	200 South Wilco Kingsport TN 37			
Teleph	ione	:	(423) 229-2000			
Emerg	ency telephone number	r:	NCEC +61 2 80	14 4558, International +65 6262-6462		
	Recommended use of the chemical and restrictions on use					
Recon	nmended use	:	Hydraulic fluids			
Restrictions on use		:	None known.			

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Skin corrosion/irritation	:	Category 2
Carcinogenicity	:	Category 2
GHS label elements Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H315 Causes skin irritation. H351 Suspected of causing cancer.
Precautionary statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P264 Wash skin thoroughly after handling.



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			ptective gloves/ protective clothing/ eye protec-
		Response:	
		P308 + P313 attention. P332 + P313 tion.	F ON SKIN: Wash with plenty of water. F exposed or concerned: Get medical advice/ f skin irritation occurs: Get medical advice/ atten- Take off contaminated clothing and wash it before
		Storage:	
		P405 Store loo	cked up.
		Disposal:	
		P501 Dispose disposal plant	of contents/ container to an approved waste
Othe	r hazards which do	not result in classifica	tion
None	e known.		

Components

Chemical name	CAS-No.	Concentration (% w/w)
Tributyl phosphate	126-73-8	>= 60 -<= 100
Dibutylphenylphosphate	2528-36-1	>= 10 -< 30
7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 2-ethylhexyl ester	62256-00-2	>= 1 -< 10
butylated hydroxytoluene	128-37-0	< 10

Eastman is committed to the safety, health and environment of our employees, our customers, and the communities we operate within. As part of this commitment, Eastman's Safety Data Sheets (SDS) are prepared in accordance with all applicable national and local regulations. The compositions of our documents reflect these requirements which include, but are not limited to, requirements under the Globally Harmonized System of Classification and Labeling (GHS). These compositions commonly involve the use of ranges versus specific analytical values. If you require a composition that is more specific , please refer to the Certificate of Analysis, sales specification, or contact your Customer Service Representative.

SECTION 4. FIRST AID MEASURES

lf inhaled	:	Move to fresh air. If breathing is difficult, give oxygen. Consult a physician if necessary.
In case of skin contact	:	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.



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In cas	e of eye contact	:	for at least 15 mir	, immediately flush eyes with plenty of water nutes. tion if symptoms occur.
lf swa	llowed	:	Do not induce von Rinse mouth.	r poison control center immediately. niting without medical advice. ng by mouth to an unconscious person.
	important symptoms ffects, both acute and ed	:	Causes skin irritat Suspected of cau	
Notes	to physician	:	Treat symptomati	cally.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Carbon dioxide (CO2) Dry chemical Foam
Unsuitable extinguishing media	:	Do not use a solid water stream as it may scatter and spread fire.
Hazardous combustion prod- ucts	:	Carbon monoxide Carbon dioxide (CO2) oxides of phosphorus
Specific extinguishing meth- ods	:	Use a water spray to cool fully closed containers. Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for firefighters	:	Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.
Hazchem Code	:	2ZE

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Ventilate the area. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Avoid contact with skin and eyes. Material can create slippery conditions. Wear appropriate personal protective equipment. Local authorities should be advised if significant spillages cannot be contained.
Environmental precautions :	Clear up spills immediately and dispose of waste safely. Avoid release to the environment. Collect spillage.



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		ls and materials for ment and cleaning up	:	: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).		
SEC	TION 7	. HANDLING AND ST	OR	AGE		
	Advice	on safe handling	:	Handle product or exhaust ventilation In case of insuffici equipment. Wear appropriate Avoid contact with Wash thoroughly Wash contaminate Drain or remove so or maintenance.	ent ventilation, wear suitable respiratory personal protective equipment. skin, eyes and clothing.	
	Conditi	ons for safe storage	:	place.	phtly closed in a dry and well-ventilated ce away from oxidizing agents.	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Tributyl phosphate	126-73-8	TWA	0.2 ppm 2.2 mg/m3	AU OEL
	Further inform	nation: Category	2 (Carc. 2) Suspecte	d human car-
	cinogen			
		TWA (Inhal-	5 mg/m3	ACGIH
		able fraction		
		and vapor)		
Dibutylphenylphosphate	2528-36-1	TWA	0.3 ppm	AU OEL
			3.5 mg/m3	
	Further information: Skin absorption			
		TWA	0.3 ppm	ACGIH
butylated hydroxytoluene	128-37-0	TWA	10 mg/m3	AU OEL
		TWA (Inhal-	2 mg/m3	ACGIH
		able fraction	-	
		and vapor)		

Engineering measures

: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust



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			levels below reco	er engineering controls to maintain airborne mmended exposure limits. If exposure lim- established, maintain airborne levels to an
Pers	onal protective equipr	nent	t	
Resp	iratory protection	:	 Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates ris necessary. Respirator selection, use, and maintenance must be in ac cordance with regulatory requirements, if applicable. If engineering controls do not maintain airborne concentra tions below recommended exposure limits (where application or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must worn. 	
Hand	protection			
R	emarks	:	ing permeability a by the supplier of specific local con- such as the dang After contamination	ves. Please observe the instructions regard- and breakthrough time which are provided the gloves. Also take into consideration the ditions under which the product is used, er of cuts, abrasion, and the contact time. on with product change the gloves immedi- e of them according to relevant national and
Eye	protection	:	Wear safety glass	ses with side shields (or goggles).
Skin	and body protection	:	Wear suitable pro	tective clothing.
Prote	ective measures	:	Ensure that eye f located close to t	lushing systems and safety showers are he working place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	oily
Colour	:	purple
Odour	:	odourless
Odour Threshold	:	not determined
рН	:	No data available
Melting point/range	:	< -62 °C

SAFETY DATA SHEET



Skydrol® LD4 Fire Resistant Hydraulic Fluid

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Boili	ng point/boiling range	: not determined	
Flas	n point	: 174 °C Method: Cleveland open cup	
Evap	oration rate	: not determined	
	er explosion limit / Upper nability limit	: not determined	
	er explosion limit / Lower nability limit	: not determined	
Vapo	our pressure	: 0.27 hPa (25 °C)	
Rela	tive vapour density	: not determined	
Rela	tive density	: 1.0111 (25 °C)	
	tion coefficient: n- nol/water	: No data available	
Auto	-ignition temperature	: 469 °C Method: ASTM D2155	
Deco	omposition temperature	: not determined	
	osity iscosity, dynamic	: not determined	
V	iscosity, kinematic	: < 2000 mm2/s (-54 °C)	
		11.15 mm2/s (38 °C)	
		3.83 mm2/s (99 °C)	
Expl	osive properties	: No data available	
Oxid	izing properties	: No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	None known.
Conditions to avoid	:	None known.



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Incom	patible materials	: Strong oxidizir	ng agents
Hazardous decomposition products		: Emits acrid sm	noke and fumes when heated to decomposition.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:		
Acute oral toxicity	:	LD50 (Rat, male and female): 2,100 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity Remarks: (highest concentration tested)
Acute dermal toxicity	:	LD50 Dermal (Rabbit, male and female): > 3,160 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
Components:		
Tributyl phosphate:		
Acute oral toxicity	:	LD50 Oral (Rat, male and female): 1,553 mg/kg Assessment: Harmful if swallowed.
		LD50 Oral (Rat, male and female): 1,400 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 4.242 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 Dermal (Rabbit, male and female): > 3,100 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
Dibutylphenylphosphate:		
Acute oral toxicity	:	Acute toxicity estimate (Rat, male and female): 2,400 - 3,000 mg/kg Assessment: Not classified
Acute inhalation toxicity	:	LCLo (Rat, male and female): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist
		LC50 (Rat, male and female): > 5 mg/l



rsion 5 D	Revision Date: 05.01.2023	SDS Number: Date of last issue: 09.03.2021 150000093409 Date of first issue: 02.02.2015 SDSAU / EN / 0001 Date of first issue: 02.02.2015
		Exposure time: 4 h Test atmosphere: dust/mist Assessment: Not classified
Acute	e dermal toxicity	: LD50 Dermal (Rabbit, male and female): > 5,000 mg/kg Assessment: Not classified
7-Oxa	abicyclo[4.1.0]heptar	ne-3-carboxylic acid, 2-ethylhexyl ester:
Acute	oral toxicity	: LD50 Oral (Rat, male and female): 4,470 mg/kg
Acute	e dermal toxicity	: LD50 Dermal (Rabbit, male and female): > 7,940 mg/kg
butyla	ated hydroxytoluene):
Acute	oral toxicity	: LD50 Oral (Rat): > 6,000 mg/kg
Acute	e dermal toxicity	: LD50 Dermal (Guinea pig): > 20,000 mg/kg
	corrosion/irritation es skin irritation.	
<u>Produ</u>	uct:	
-	sure time ssment	: Rabbit : 24 h : irritating : moderate irritation
<u>Comp</u>	oonents:	
Tribu	tyl phosphate:	
-	sure time ssment	 Rabbit 4 h Causes skin irritation. irritating
Dibut	ylphenylphosphate:	
Speci Asses	es ssment	: Rabbit : Not classified
	es sure time ssment	: Humans : 24 h : Not classified
7-0×2	abicvclo[4.1.0]hentar	ne-3-carboxylic acid, 2-ethylhexyl ester:
Speci		: Rabbit
Expos	sure time ssment	 24 h Not classified as hazardous.

butylated hydroxytoluene:



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Spec Expo Resu	sure time	: Rabbit : 24 h : very slight	
	ous eye damage/eye classified based on ava		
Prod	luct:		
Spec		: Rabbit	
Resu		: slight	
Expo	sure time	: 24 h	
Asse	essment	: Not classified	l
<u>Com</u>	ponents:		
Tribu	utyl phosphate:		
Spec	ies	: Rabbit	
Resu		: slight irritation	n
	sure time	: 24 h	
Asse	essment	: Not classified	
Dibu	tylphenylphosphate:		
Spec	eies	: Rabbit	
Resu		: slight	
Asse	essment	: Not classified	l
7-Ox	abicvclo[4.1.0]hepta	ne-3-carboxvlic aci	d, 2-ethylhexyl ester:
Spec		: Rabbit	.,
Resu		: slight irritation	n
Expo	sure time	: 24 h	
Asse	essment	: Not classified	I
buty	lated hydroxytoluen	9:	
Spec		: Rabbit	
Resu		: none	
Resp	piratory or skin sensi	tisation	
Skin	sensitisation		
Not c	classified based on available	ailable information.	
-	biratory sensitisation classified based on ava	ailable information.	
Prod	luct:		
			rianaa
	Type essment	: Human expension : Not classified	
Meth			at Insult Patch Test
Resu			ise skin sensitization.



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<u>Com</u>	oonents:		
Tribu	tyl phosphate:		
Test ⁻	Туре	: Skin Sensitizatio	on
Speci		: Guinea pig	
Asse	ssment	: Not classified	
Resul	t	: Does not cause	skin sensitization.
Test 7		: Skin Sensitization	on
Speci		: Humans	
	ssment	: Not classified	
Resul	t	: Does not cause	skin sensitization.
Dibut	ylphenylphosphate:		
Test ⁻	Туре	: Human experier	ice
Speci	es	: Humans	
Asse	ssment	: Not classified	
Resul	t	: non-sensitizing	
7-Oxa	abicyclo[4.1.0]heptar	ne-3-carboxylic acid, 2	2-ethylhexyl ester:
Test ⁻		: Skin Sensitizatio	
Speci		: Guinea pig	
Resul	t	: May cause sens	itization by skin contact.
butvl	ated hydroxytoluene		
-		: Skin sensitizatio	
Test Speci		: Guinea pig	
Resul		: non-sensitizing	
Chro	nie tevielty		
	nic toxicity		
	n cell mutagenicity		
Not c	lassified based on ava	ilable information.	
Prod	uct:		
Geno	toxicity in vitro		nonella typhimurium assay (Ames test) tion: +/- activation
		Metabolic activa	agenicity - Mammalian tion: +/- activation Mammalian Chromosome Aberration Test
<u>Com</u>	<u>oonents:</u>		
Tribu	tyl phosphate:		
	toxicity in vitro	Metabolic activa	agenicity - Bacterial tion: +/- activation al Reverse Mutation Assay



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Ger	notoxicity in vivo	Metabolic activation Method: In vitro M Result: equivocal	Iammalian Chromosome Aberration Test
Application Route: oral: gavage			
Dib	utylphenylphosphate:		
	notoxicity in vitro	Metabolic activation	nella typhimurium assay (Ames test) on: +/- activation Reverse Mutation Assay
		Metabolic activation	enicity - Mammalian on: +/- activation Iammalian Cell Gene Mutation Test
		Metabolic activation	osome aberration test in vitro on: +/- activation Iammalian Chromosome Aberration Test
		Metabolic activation	enicity - Mammalian on: - activation Toxicology: DNA Damage and Repair, Un- ynthesis in Mammalian Cells In Vitro
Ger	notoxicity in vivo	: Species: Rat (mal Application Route Result: negative	e and female) : intraperitoneal injection
7-0	xabicyclo[4.1.0]heptane-	3-carboxvlic acid. 2-	ethvlhexvl ester:
	notoxicity in vitro	: Test Type: Salmo Metabolic activation	nella typhimurium assay (Ames test)
		Metabolic activation	enicity - Mammalian on: +/- activation Iammalian Chromosome Aberration Test
		Metabolic activation	enicity - Mammalian on: +/- activation Iammalian Cell Gene Mutation Test
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	Genoto	xicity in vivo	:		e and female) : intraperitoneal injection an Bone Marrow Chromosome Aberration
	Carcino	ogenicity			
		ted of causing cancer.			
	<u>Produc</u>	<u>t:</u>			
	Remark	s	:	This information is	s not available.
	Compo	nanta			
	Compo				
	Species	tion Route		Rat, male and fem Ingestion EPA OTS 798.330 Limited evidence May cause cancer	00 of a carcinogenic effect.
	•	l uctive toxicity ssified based on availat	ole	information.	
	Produc Effects	<u>t:</u> on fertility	:	Remarks: No data	available
	STOT -	single exposure			
		ssified based on availab	ole	information.	
	<u>Produc</u>	<u>t:</u>			
	Remark	S	:	No data available	
	<u>Compo</u>	<u>nents:</u>			
	Tributy	I phosphate:			
	Assess	ment	:	Based on available	e data, the classification criteria are not met.
	Dibutyl	phenylphosphate:			
	Assess		:	Not classified	
	STOT -	repeated exposure			
	Not clas	ssified based on availab	ole	information.	
	<u>Produc</u>				
	Remark	S	:	No data available	



Tribut	oonents:	
	tyl phosphate:	
Asses	sment	: Based on available data, the classification criteria are not me
Dibut	ylphenylphosphate:	
	sure routes	: inhalation (dust/mist/fume)
	: Organs ssment	: Respiratory system : Not classified
Repe	ated dose toxicity	
<u>Produ</u>	<u>ict:</u>	
Specie		: Rat, male and female
NOAE		: 40 mg/m3
	ation Route	: Inhalation : 28 days
	Organs	: Blood, Respiratory system
Rema		: Irritating to eyes and respiratory system.
<u>Comp</u>	oonents:	
	tyl phosphate:	
Specie	es	: Mouse, male and female
Applic	ation Route	: 75 mg/kg : in feed
	sure time	: 90 days
Dibut	ylphenylphosphate:	
Specie	es	: Rat, male and female
NOAE		: 5 mg/kg
LOAE	L ation Route	: 50 mg/kg
	sure time	: oral (feed) : 90 days
Specie	es	: Rat, male and female
Applic	ation Route	: 5 mg/m3 : Inhalation
	sure time	: 90 days
Specie		: Rabbit, male and female
NOAE		: 100 mg/kg bw/day
	ation Route sure time	: Dermal Study : 21 d
Aspira	ation toxicity	

Product:

Not applicable



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 7-Oxa	oonents: abicyclo[4.1.0]heptan oplicable	e-3-carboxylic acid, 2	-ethylhexyl ester:	
Experience with human exposure				

Product:		
Inhalation	:	Remarks: None known.
Skin contact	:	Remarks: Causes skin irritation.
Eye contact	:	Remarks: Contact with the eyes may be very painful but does not cause damage.
Ingestion	:	Remarks: None known.
Further information		
Product:		
Remarks	:	None known.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 5.2 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 5.8 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): 8.2 mg/l Exposure time: 96 h
Components:		
Tributyl phosphate:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.8 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 1.1 mg/l Exposure time: 72 h
Toxicity to fish (Chronic tox- icity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 0.82 mg/l Exposure time: 95 d



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Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)			1.7 mg/l		
		:	NOEC (Daphnia magna (Water flea)): 1.3 mg/l Exposure time: 21 d		
	Dibutyl	phenylphosphate:			
	Toxicity	r to fish	:	LL50 (Cyprinus carpio (Carp)): 1.8 mg/l Exposure time: 96 h	
		to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.4 mg/l Exposure time: 48 h	
	Toxicity to algae/aquatic plants		:	EL50 (Selenastrum capricornutum (green algae)): 9.6 mg/l Exposure time: 72 h Method: EL50 method of the water accommodated fraction (W.A.F.)	
				NOELR (Selenastrum capricornutum (green algae)): 3.5 m Exposure time: 72 h Method: EL50 method of the water accommodated fraction (W.A.F.)	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Oncorhynchus mykiss (rainbow trout)): > 0.11 mg/l Exposure time: 60 d	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)		:	NOEC (Daphnia magna (Water flea)): 0.106 mg/l Exposure time: 21 d		
	butylat	ed hydroxytoluene:			
	Toxicity		:	LC50 (Danio rerio (zebra fish)): > 0.57 mg/l Exposure time: 96 h	
		to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.48 mg/l Exposure time: 48 h	
	Toxicity plants	v to algae/aquatic	:	EC50 (Pseudokirchneriella subcapitata (algae)): > 0.24 mg Exposure time: 72 h	/I
				NOEC (Pseudokirchneriella subcapitata (algae)): 0.24 mg/l Exposure time: 72 h	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Oryzias latipes (Orange-red killifish)): 0.053 mg/l Exposure time: 30 d	
		to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia magna (Water flea)): 0.069 mg/l Exposure time: 21 d	



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Persistence and degradab			lity		
	Produc	ct:			
		mical Oxygen De-	:	Remarks: not det	ermined
	Chemic (COD)	cal Oxygen Demand	:	Remarks: not det	ermined
	Compo	onents:			
	Tributy	/I phosphate:			
	Biodeg	radability	:	Result: Readily bi	odegradable.
	Dibuty	Iphenylphosphate:			
	Biodeg	radability	:	Test	iodegradability: Manometric Respirometry
				Remarks: Readily	biodegradable
				-	iodegradability: Modified MITI Test (I) dily biodegradable.
	7-Oval	picyclo[4.1.0]heptane	-3-0	arboxylic acid 2-	athylhavyl astar
		radability	- J- Ci	Concentration: 10	00 mg/l iodegradability: Modified MITI Test (I)
	Bioaco	cumulative potential			
	Compo	onents:			
	-	/l phosphate:			
	Bioacc	umulation	:	Bioconcentration Exposure time: 50	factor (BCF): 20 6 d
				Method: OECD 1	est Guideline 305
				Bioconcentration Exposure time: 38	
	Partitio octanol	n coefficient: n- I/water	:	Pow: 10,100	
	Dibuty	Iphenylphosphate:			
	-	umulation	:	Species: Cyprinus Bioconcentration Method: OECD T	
	Mobili	ty in soil			
	No data	a available			



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Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

: Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR	
LINI/ID No	

UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passen- ger aircraft)	:	Not applicable
o		
IMDG-Code		
IMDG-Code UN number	:	Not applicable
	:	Not applicable Not applicable
UN number	:	
UN number Proper shipping name		Not applicable
UN number Proper shipping name Class	:	Not applicable Not applicable
UN number Proper shipping name Class Subsidiary risk	:	Not applicable Not applicable Not applicable
UN number Proper shipping name Class Subsidiary risk Packing group	:	Not applicable Not applicable Not applicable Not applicable
UN number Proper shipping name Class Subsidiary risk Packing group Labels	::	Not applicable Not applicable Not applicable Not applicable Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

Special precautions for user

Not applicable



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SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture Standard for the Uniform : No poison schedule number allocated Scheduling of Medicines and : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations. The components of this product are reported in the following inventories:

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	On the inventory, or in compliance with the inventory
AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information		
Revision Date	:	05.01.2023
Sources of key data used to compile the Safety Data Sheet	:	www.EastmanAviationSolutions.com
Date format	:	dd.mm.yyyy
Full text of other abbreviation	ons	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)

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AU OE	L	: Australia. Wor taminants.	kplace Exposure Standards for Airborne Con-

ACGIH / TWA	:	8-hour, time-weighted average
AU OEL / TWA	:	Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; 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 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; 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 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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.

AU / EN