

Vers 5.0	sion	Revision Date: 06.07.2024		DS Number: 804-00026	Date of last issue: 06.04.2024 Date of first issue: 02.04.2015
SEC		1: Identification of	the	substance/mixt	ure and of the company/undertaking
1.1	Product Trade r	t identifier name	:	Efavirenz Solid Fo	ormulation
1.2	Use of	it identified uses of t the Sub- Mixture	he s :		ure and uses advised against
	Recom on use	mended restrictions	:	Not applicable	
1.3	Details Compa	of the supplier of the ny	saf :	MSD 117 16th Road	use, Midrand, South Africa
	Telepho	one	:	+27 11 655 3000	
		address of person sible for the SDS	:	EHSDATASTEW	ARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 Eye irritation, Category 2 Reproductive toxicity, Category 1B Specific target organ toxicity - repeated exposure, Category 1 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1

H302: Harmful if swallowed.
H319: Causes serious eye irritation.
H360D: May damage the unborn child.
H372: Causes damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms



Signal word

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Hazar	d statements	H319 Causes s H360D May dama H372 Causes d peated exposure.	⁻ swallowed. erious eye irritation. age the unborn child. amage to organs through prolonged or re- c to aquatic life with long lasting effects.
Preca	utionary statements	P260 Do not bro P273 Avoid rele	ecial instructions before use. eathe dust. ease to the environment. tective gloves/ protective clothing/ eye protec- on.
		Response: P308 + P313 IF attention. P391 Collect sp	exposed or concerned: Get medical advice/

Hazardous components which must be listed on the label: Efavirenz

Sodium n-dodecyl sulfate

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.

May form explosive dust-air mixture during processing, handling or other means.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Efavirenz	154598-52-4	Acute Tox. 4; H302 Eye Irrit. 2; H319 Repr. 1B; H360D STOT RE 1; H372 (Central nervous system, Skin) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1	>= 30 - < 50
		M-Factor (Chronic	



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Sodiu	um n-dodecyl sulfate	151-21-3 205-788-1	aquatic toxicity): 1 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 1 - < 2,5	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice :	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders :	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
If inhaled :	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact :	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact :	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed :	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
4.2 Most important symptoms and e	effects, both acute and delayed
Risks :	Harmful if swallowed. Causes serious eye irritation. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure.
4.3 Indication of any immediate med	dical attention and special treatment needed
Treatment :	Treat symptomatically and supportively.



Versic 5.0	on Revision Date: 06.07.2024		9S Number: 804-00026	Date of last issue: 06.04.2024 Date of first issue: 02.04.2015
SECI	FION 5: Firefighting mea	sur	es	
5.1 Ex	tinguishing media			
S	Suitable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	Insuitable extinguishing nedia	:	None known.	
5.2 Sp	pecial hazards arising from	the	substance or mi	xture
	Specific hazards during fire- fighting		Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.	
	lazardous combustion prod- lcts	:	Carbon oxides Metal oxides Sulphur oxides	
5.3 Ac	dvice for firefighters			
	Special protective equipment or firefighters	:		e, wear self-contained breathing apparatus. tective equipment.
	Specific extinguishing meth- ids	:	cumstances and to Use water spray to	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal.
		Avoid dispersal of dust in the air (i.e., clearing dust surfaces



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		es, as these m leased into the Local or nation posal of this m employed in th mine which re Sections 13 an	sed air). should not be allowed to accumulate on surfac- nay form an explosive mixture if they are re- e atmosphere in sufficient concentration. nal regulations may apply to releases and dis- naterial, as well as those materials and items ne cleanup of releases. You will need to deter- gulations are applicable. nd 15 of this SDS provide information regarding r national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

	Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion.
			Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
	Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
	Advice on safe handling	:	Do not get on skin or clothing. Do not breathe dust. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
	Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated clothing before re-use.
7.2	Conditions for safe storage,	incl	uding any incompatibilities
	Requirements for storage areas and containers	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
	Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives



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		Gases	
-	c end use(s) ic use(s)	: No data availabl	e

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
Efavirenz	154598-52- 4	TWA	100 µg/m3	Internal	
Cellulose	9004-34-6	OEL-RL	10 mg/m3	ZA OEL	
	Further information: Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents				

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Sodium n-dodecyl sulfate	Workers	Inhalation	Long-term systemic effects	285 mg/m3
	Workers	Skin contact	Long-term systemic effects	4060 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	85 mg/m3
	Consumers	Skin contact	Long-term systemic effects	2440 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	24 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Sodium n-dodecyl sulfate	Fresh water	0,176 mg/l
	Marine water	0,018 mg/l
	Sewage treatment plant	1,35 mg/l
	Fresh water sediment	6,97 mg/kg dry weight (d.w.)
	Marine sediment	0,697 mg/kg dry weight (d.w.)
	Soil	1,29 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.

Apply measures to prevent dust explosions.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

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lf s	sufficient ventilation is unav	ailable, use with loc	al exhaust ventilation.
Pe	ersonal protective equipm	ent	
Ey	/e/face protection	: Wear the follow Safety goggles	wing personal protective equipment:
Ha	and protection		
	Material	: Chemical-resis	tant gloves
	Remarks	on the concent stance and spe determined for applications, w chemicals of th	to protect hands against chemicals depending ration and quantity of the hazardous sub- ecific to place of work. Breakthrough time is not the product. Change gloves often! For special e recommend clarifying the resistance to be aforementioned protective gloves with the turer. Wash hands before breaks and at the /.
Sk	in and body protection	sistance data a tial. Skin contact m	iate protective clothing based on chemical re- and an assessment of the local exposure poten- ust be avoided by using impervious protective s, aprons, boots, etc).
Re	espiratory protection	: If adequate loc sure assessme	al exhaust ventilation is not available or expo- ent demonstrates exposures outside the rec- idelines, use respiratory protection.
	Filter type	: Particulates typ	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	::	powder white to off-white No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available

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	Relativ	e vapour density	:	No data available	9
	Density	/	:	No data available	e
	Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature Viscosity Viscosity, dynamic Viscosity, kinematic Explosive properties Oxidizing properties		· · · · · · · · · · · · · · · · · · ·	No data available No data available No data available No data available No data available No data available No data available Not explosive The substance o	e e e
9.2 (9.2 Other information				
	Flamm	ability (liquids)	:	No data available	9
	Molecu	ılar weight	:	No data available	9
	Particle	e size	:	No data available	e

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions Hazardous reactions : May form explosive dust-air mixture during processing, handling or other means. Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid

: Heat, flames and sparks. Avoid dust formation.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.



ersion .0	Revision Date: 06.07.2024		S Number: 804-00026	Date of last issue: 06.04.2024 Date of first issue: 02.04.2015
ECTION	I 11: Toxicological in	for	mation	
1.1 Infori	mation on toxicologica	l ef	ects	
	nation on likely routes of		Inhalation Skin contact Ingestion Eye contact	
	e toxicity ful if swallowed.			
<u>Produ</u> Acute	oral toxicity	:	Acute toxicity e Method: Calcula	stimate: 849,05 mg/kg ation method
<u>Com</u> p	oonents:			
Efavi	renz:			
Acute	oral toxicity	:	LD50 (Rat, fem	ale): 419 mg/kg
			LDLo (Rat, male	e): 1.000 mg/kg
Sodiu	Im n-dodecyl sulfate:			
Acute	oral toxicity	:	LD50 (Rat): 1.2 Method: OECD	00 mg/kg Test Guideline 401
Acute	dermal toxicity	:		.000 mg/kg Test Guideline 402 d on data from similar materials
-	corrosion/irritation assified based on availa	ble	information.	
<u>Comp</u>	oonents:			
Efavi				
Resul Rema		:	Mild skin irritation	on
Sodiu	um n-dodecyl sulfate:			
Speci Resul	es t	:	Rabbit Skin irritation	
	us eye damage/eye irrines serious eye irrines serious eye irritation.	tati	on	
<u>Comp</u>	oonents:			
Efavi	renz:			
Rema	urks	:	Moderate eye ir	rritation



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Sodiu Speci Metho Resul	bd	:	Rabbit OECD Test G Irreversible eff	uideline 405 rects on the eye
Skin s Not cl Resp Not cl	iratory or skin sensitis sensitisation lassified based on availa iratory sensitisation lassified based on availa conents:	able	information.	
Speci	Гуре sure routes es ssment		Maximisation Dermal Guinea pig Does not caus negative	Test se skin sensitisation.
Test	sure routes es It		Maximisation Skin contact Guinea pig negative Based on data	Test a from similar materials
Not cl	a cell mutagenicity lassified based on availa ponents:	able	information.	
Efavi Geno	renz: toxicity in vitro	:	Result: negativ	vitro mammalian cell gene mutation test
Geno	toxicity in vivo	:	Test Type: Ch Result: negativ	romosome aberration test in vitro ve mmalian erythrocyte micronucleus test (in vivo ssay) se
Germ sessn	cell mutagenicity- As- nent	:	Result: negativ	



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Sodium n-dodecyl sulfate:			
Genotoxicity in vitro			rial reverse mutation assay (AMES) est Guideline 471
		Test Type: In vitre Result: negative	o mammalian cell gene mutation test
Genotoxicity in vivo	:	Test Type: Roder Species: Mouse Application Route Result: negative	nt dominant lethal test (germ cell) (in vivo) e: Ingestion
Carcinogenicity			
Not classified based on avail	lable	information.	
Components:			
Efavirenz:			
Species Application Route Exposure time Target Organs Remarks		Mouse Oral 2 Years Lungs, Liver The mechanism o mans.	or mode of action may not be relevant in hu-
Species Application Route Exposure time Result	:	Rat Oral 2 Years negative	
Sodium n-dodecyl sulfate:			
Species		Rat	
Application Route	:	Ingestion	
Exposure time	:	2 Years	
Method Result	:	OECD Test Guid negative	eline 453
Remarks	:		om similar materials
Reproductive toxicity			
May damage the unborn chil	Ы		
	iu.		
Components:			
Efavirenz:		_	
Effects on fertility	:		e: Oral 200 - 400 mg/kg body weight s on fertility and early embryonic develop-
Effects on foetal develop- ment	:	Test Type: Embry Species: Rat	yo-foetal development
		11 / 20	



sion	Revision Date: 06.07.2024	SDS Number: 86804-00026	Date of last issue: 06.04.2024 Date of first issue: 02.04.2015
			oute: Oral al Toxicity: LOAEL: 50 mg/kg body weight /o-foetal toxicity
		Species: Mon Application Re Developments	
		Test Type: Er Species: Rab Application Re Developmenta	nbryo-foetal development bit
Repro sessr	oductive toxicity - As- nent	: Clear evidence animal experi	e of adverse effects on development, based on ments.
Sodiu	um n-dodecyl sulfate:		
Effect	ts on fertility	Species: Rat Application Re Method: OEC Result: negati	vo-generation reproduction toxicity study oute: Ingestion D Test Guideline 416 ive sed on data from similar materials
Effect ment	ts on foetal develop-	Species: Rat Application Re Result: negation	nbryo-foetal development oute: Ingestion ive sed on data from similar materials
	- single exposure lassified based on avai	lable information	
	 repeated exposure 		
	es damage to organs th		repeated exposure.
Com	ponents:		
Efavi	renz:		
	et Organs ssment	Central nervoCauses dama exposure.	us system Ige to organs through prolonged or repeated
	ated dose toxicity		
Repe			
-	ponents:		
-			
Com	renz: ies	: Rat : 50 mg/kg	



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	sure time et Organs	: 3 Months : Kidney	
Expo		: Monkey : 100 mg/kg : Oral : 1 - 2 yr : Central nerv	ous system, Liver, Kidney, Thyroid, Adrenal glan
Species LOAEL Application Route Exposure time Target Organs Symptoms		: Monkey : 90 mg/kg : Oral : 1 Months : Central nerv : Lethargy, W	
Sodiu	um n-dodecyl sulfate	:	
	EL cation Route sure time	: Rat : 488 mg/kg : Ingestion : 90 Days : Based on da	ata from similar materials
-	r ation toxicity lassified based on ava	ilable information.	
Expe	rience with human e	xposure	
<u>Com</u>	ponents:		
Efavi	renz:		
Inges	ition	Symptoms: Target Orga	Rash ns: Central nervous system Dizziness, insomnia
SECTION	N 12: Ecological inf	ormation	
2.1 Toxic	city		
	ponents:		
Efavi			
	ity to fish	: LC50 (Lepoi Exposure tin Method: ED	

Toxicity to lish	•	Exposure time: 96 h Method: FDA 4.11
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,1 mg/l Exposure time: 48 h Method: FDA 4.08
Toxicity to algae/aquatic	:	NOEC (Selenastrum capricornutum (green algae)): 0,026 mg/l



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plants	3		Exposure time: 12 Method: FDA 4.0	
			NOEC (Microcyst Exposure time: 12 Method: FDA 4.0	
M-Fac icity)	ctor (Acute aquatic tox-	:	1	
Toxici icity)	ity to fish (Chronic tox-	:	NOEC: 0,066 mg/ Exposure time: 33 Species: Pimepha Method: OECD T	3 d ales promelas (fathead minnow)
aquat	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity) M-Factor (Chronic aquatic toxicity)		NOEC: 0,16 mg/l Exposure time: 2 ⁴ Species: Daphnia Method: OECD T	magna (Water flea)
			1	
Sodiı	um n-dodecyl sulfate:			
	ity to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 29 mg/l 5 h
	ity to daphnia and other ic invertebrates	:	EC50 (Ceriodaph Exposure time: 48	nia dubia (water flea)): 5,55 mg/l 3 h
Toxici plants	ity to algae/aquatic	:	ErC50 (Desmode Exposure time: 72	smus subspicatus (green algae)): > 120 mg/l 2 h
			NOEC (Desmode Exposure time: 72	smus subspicatus (green algae)): 30 mg/l 2 h
Toxici	ity to microorganisms	:	EC50 : 135 mg/l Exposure time: 3	h
Toxici icity)	ity to fish (Chronic tox-	:	NOEC: >= 1,357 Exposure time: 42 Species: Pimepha	
	ity to daphnia and other ic invertebrates (Chron- icity)	:	NOEC: 0,88 mg/l Exposure time: 7 Species: Cerioda	d phnia dubia (water flea)
II 12.2 Persi	stence and degradabil	ity		

Components:

Efavirenz:

Biodegradability	:	Result: Not readily biodegradable.
		Biodegradation: 11 %
		Exposure time: 32 d



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П			Method: FDA 3.1	1
	m n-dodecyl sulfate:			
Biodeç	gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	95 %
12.3 Bioac	cumulative potential			
<u>Comp</u>	onents:			
Efavir	enz:			
Bioaco	cumulation	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): 454 est Guideline 305
Partitic octanc	on coefficient: n- ol/water	:	log Pow: 5,4	
	m n-dodecyl sulfate: on coefficient: n- ol/water	:	log Pow: 0,83	
12.4 Mobili	ity in soil			
<u>Comp</u>	onents:			
Efavir	enz:			
	ution among environ- I compartments	:	log Koc: 3,36 Method: FDA 3.0	8
12.5 Resul	ts of PBT and vPvB a	sse	ssment	
<u>Produ</u>	<u>ct:</u>			
Asses	sment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Other	adverse effects			
<u>Produ</u>	<u>ct:</u>			
	rine disrupting poten-	:	ered to have end REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.
SECTION	13: Disposal consid	dera	ations	

13.1 Waste treatment methods



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Produ Conta	ct minated packaging	:	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Cod are not product specific, but application specific. Waste codes should be assigned by the user, preferably discussion with the waste disposal authorities. Do not dispose of waste into sewer. Empty containers should be taken to an approved waste dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 	
SECTION	14: Transport info	rmat	ion	
14.1 UN nı	umber			
ADN		:	UN 3077	
ADR		:	UN 3077	
RID		:	UN 3077	
IMDG		:	UN 3077	
ΙΑΤΑ		:	UN 3077	
14.2 UN pr	oper shipping name			
ADN		:	ENVIRONMEN N.O.S. (Efavirenz)	ITALLY HAZARDOUS SUBSTANCE, SOLID,
ADR		:	ENVIRONMEN N.O.S. (Efavirenz)	NTALLY HAZARDOUS SUBSTANCE, SOLID,
RID		:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Efavirenz)	
IMDG		:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Efavirenz)	
ΙΑΤΑ		:	Environmentally hazardous substance, solid, n.o.s. (Efavirenz)	
14.3 Trans	port hazard class(es)		
			Class	Subsidiary risks
ADN		:	9	
ADR		:	9	
RID		:	9	
IMDG		:	9	
ΙΑΤΑ		:	9	
14.4 Packi	ng group			
ADN				
	ng group		111	



Classification Code : M7 Hazard Identification Number : 9 ADR : 9 Packing group : III Classification Code : M7 Hazard Identification Number : 90 Labels : 9 Tunnel restriction code : M7 Hazard Identification Number : 90 Labels : 9 Tunnel restriction code : M7 Hazard Identification Number : 90 Labels : 9 MDC : 11 Packing group : III Labels : 9 Boxing group : III Labels : 9 EmS Code : 9 EmS Code : 956 aircraft : Miscellaneous IATA (Passenger) : Wiscellaneous Packing instruction (LQ) : Y956 Packing instruction (LQ) :	Version 5.0	Revision Date: 06.07.2024	SDS Number: 86804-00026	Date of last issue: 06.04.2024 Date of first issue: 02.04.2015
Packing group:IIIClassification Code:M7Hazard Identification Number:9Labels:9Tunnel restriction code:(-)RID:IIIClassification Code:M7Hazard Identification Number:9Labels:9Hazard Identification Number:9Labels:9HMDG:IIILabels:9Hazard Identification Number:9Packing group:IIILabels:9EmS Code:9Packing instruction (cargo:956aircraft:10Packing instruction (LQ):1956Packing instruction (passen- reraft):956Packing instruction (LQ):1956Packing instruction (LQ)::Packing instruction (LQ)::Packing instruction (LQ)::Packing instruction (LQ)::Packing instruction: <td< td=""><td>Haza</td><td>ard Identification Number</td><td>: 90</td><td></td></td<>	Haza	ard Identification Number	: 90	
Packing group:IIIClassification Code:M7Hazard Identification Number:9Labels:9IMDG:IIIPacking group:IIILabels:9EmS Code:F-A, S-FIATA (Cargo):10Packing instruction (cargo:956aircraft):111Packing instruction (LQ):101Packing instruction (LQ):101Labels:956Packing instruction (passen):101Packing instruction (LQ):956ger aircraft):956Packing instruction (LQ):956ger aircraft):956Packing instruction (LQ):101Labels:101Labels:105ADN::Environmental hazards:yesADR:yesImit on the pollutant:yesIMDG:yesIATA (Passenger):yesImit on pollutant:yesIATA (Cargo):yesIATA (Cargo):yes	Pack Clas Haza Labe	king group sification Code ard Identification Number els	: M7 : 90 : 9	
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Environmentally hazardous : yes			: yes	
14.6 Special precautions for user			: yes	
	14.6 Spe	cial precautions for use	er	

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.



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

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

The components of this p	roduct are reported in the following inventories	-
AICS	: not determined	
D OI		
DSL	: not determined	
IECSC	: not determined	

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
Full text of H-Statements H302 H315 H318 H319 H360D H372 H400 H410		Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life.
H412 Full text of other abbreviation	:	Harmful to aquatic life with long lasting effects.
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Eye Irrit. Repr. Skin Irrit. STOT RE ZA OEL ZA OEL / OEL-RL		Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage Eye irritation Reproductive toxicity Skin irritation Specific target organ toxicity - repeated exposure South Africa. The Regulations for Hazardous Chemical Agents, Occupational Exposure Limits Occupational Exposure Limit Restricted limit - 8- hour expo- sure or equivalent (12 hour shifts)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-



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ing 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

Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

Classification of the mi	Classification procedure:	
Acute Tox. 4	H302	Calculation method
Eye Irrit. 2	H319	Calculation method
Repr. 1B	H360D	Calculation method
STOT RE 1	H372	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text.



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Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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