

Version: 7 (replaces version 6)

Revision: 16.02.2023

The Peroxide Company

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

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· 1.1 Product identifier
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DEDOXAN EDC-75

· Trade name:	PERUXAN EPC-/5
· 1.2 Relevant identified uses of th	e substance or mixture and uses advised against No further relevant information available.
 Application of the substance / the mixture 	Reaction initiator For industrial use
• 1.3 Details of the supplier of the • Manufacturer/Supplier:	safety data sheet PERGAN GmbH Hilfsstoffe für industrielle Prozesse Schlavenhorst 71 D-46395 Bocholt Tel: +49 2871 9902-0 Fax: +49 2871 9902-50
 Further information obtainable from: 1.4 Emergency telephone number: 	Environment protection / Security of labour Qualified person: E-mail: msds@pergan.com - Tel: +49 2871 9902-0
SECTION 2: Hazards identific	cation

SECTION 2: Hazards identification

	julation (EC) No 12 iquid and vapour. v cause a fire. irritation.	tion.	
Labelling according to			
Regulation (EC) No 1272/2008	The product is cla	issified and labelled according to the CLP regulation.	
· Hazard pictograms			
	(%)		
		\vee \vee	
	GHS02 GHS05 G	HS07 GHS08	
· Signal word	Danger		
· Hazard-determining			
components of labelling:	bis(2-ethylhexyl)	peroxydicarbonate	
	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated		
· Hazard statements	H226 Flammable liquid and vapour.		
	H242 Heating may cause a fire.		
	H315 Causes ski		
		ious eye damage.	
		an allergic skin reaction.	
		l if swallowed and enters airways.	
 Precautionary statements 	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
	P220	Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and	
		accelerators (e. g. heavy metal compounds and amines).	
	P234	Keep only in original packaging.	
	P243	Take action to prevent static discharges.	
	P264	Wash thoroughly after handling.	
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	
	P301+P310	F SWALLOWED: Immediately call a POISON CENTER/ doctor.	
	P331	Do NOT induce vomiting.	
	P303+P361+P35	3 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with	
		water [or shower].	
	P305+P351+P33	B IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if	
	D000 . D004	present and easy to do. Continue rinsing.	
	P362+P364	Take off contaminated clothing and wash it before reuse.	
	P403+P235	Store in a well-ventilated place. Keep cool.	
	P405 P410	Store locked up. Protect from sunlight.	
	P410 P411	Store at temperatures not exceeding -15°C.	
	1 7 1 1	(Contd. on page 2)	
		MT	

Printing date 03.04.2024

Version: 7 (replaces version 6)

PERGAN The Peroxide Company

Revision: 16.02.2023

Trade name: PEROXAN EPC-75

disrupting properties	The product	does not contain substances with endocrine disrupting properties.
· vPvB: · Determination of endocrine-	The substan	ces in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
· PBT:		ces in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
2.3 Other hazards Results of PBT and vPvB asse	ssment	
	P420 P501	Store separately. Dispose of contents/container in accordance with local/regional/national/international regulations.
	5.400	(Contd. of page 1

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Dangerous components:		
	bis(2-ethylhexyl) peroxydicarbonate	70-80%
EINECS: 240-282-4 Reg-No.: 01-2119964452-35	Org. Perox. C, H242; Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	
 CAS: 93685-81-5		20-25%
EINECS: 297-629-8	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated Alternative CAS number: 13475-82-6	20-25%
Reg-No.: 01-2119490725-29	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	
 · Additional information:	For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

· 4.1 Description of first aid meas	ures
· General information:	Take care of personal protection for the first aider.
 After inhalation: 	Supply fresh air and to be sure call for a doctor.
	In case of unconsciousness place patient stably in side position for transportation.
	Take affected persons into fresh air and keep quiet.
 After skin contact: 	Immediately wash with water and soap and rinse thoroughly.
	Immediately remove contaminated clothing.
 After eye contact: 	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:	If symptoms persist consult doctor.
 4.2 Most important symptoms and effects, both acute and 	
delayed	No further relevant information available.
4.3 Indication of any immediate medical attention and special	
treatment needed	No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

· Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
5.2 Special hazards arising from	
the substance or mixture	Under certain fire conditions, traces of other toxic gases cannot be excluded.
	Hydrocarbons, carbondioxide and -monoxid.
 5.3 Advice for firefighters 	
 Protective equipment: 	Do not inhale explosion gases or combustion gases.
• Additional information	Cool endangered receptacles with water spray.
	Self-protection first!

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and 		
emergency procedures	Keep away from ignition sources.	
emergency procedures	In case of further temperature should be cooled with waterspray from a safe distance.	
	Wear breathing apparatus with filter A during decomposition of materials.	
	Wear protective equipment. Keep unprotected persons away.	
· 6.2 Environmental precautions:	Inform respective authorities in case of seepage into water course or sewage system.	
-		(Contd. on page

n page 3) — MT — Printing date 03.04.2024

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31 Version: 7 (replaces version 6)



Revision: 16.02.2023

Trade name: PEROXAN EPC-75

	(Contd. of page 2) Do not allow to enter sewers/ surface or ground water.
· 6.3 Methods and material for	
containment and cleaning up:	Dispose contaminated material as waste according to section 13.
	Ensure adequate ventilation.
	Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before disposal.
	Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations.
• 6.4 Reference to other sections	See Section 7 for information on safe handling.
	See Section 8 for information on personal protection equipment.
	See Section 13 for disposal information.
	In case of large spillage the environmental authority should be informed.

SECTION 7: Handling and storage

OLOTION 7. Handling and St	oluge	
· 7.1 Precautions for safe		
handling	Keen away fr	om heat and direct sunlight.
hanaling		ndle receptacle with care.
		ation of aerosols.
		e respiratory protective device when decanting larger quantities without extractor facilities.
		esidue into storage receptacles.
		juantity stored at the work place.
		and at the end of work hands should be thoroughly washed.
		s made of suitable materials (e. g. polyethylene or stainless steel).
		om dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e.g. heavy-
		unds and amines).
	0	do not eat, drink or smoke.
		ate flames or sparks.
		t and emptied container away from heat and sources of ignition.
	Avoid shock	
	Take precaut	ionary measures against static discharges.
	See Do n	ot smoke.
 Information about fire - and 		
explosion protection:	Protect from	heat.
	Protect again	ist electrostatic charges.
		ict and friction.
		n-proof apparatus / fittings and spark-proof tools.
	Fumes can c	ombine with air to form an explosive mixture.
	Wea	r shoes with conductive soles.
	Form	nation of flammable or explosive gas/air-mixtures is possible.
		Avoid open flames, sparks, direct sunlight and other sources of ignition.
		Keep ignition sources away - Do not smoke.
· 7.2 Conditions for safe storage,	including any	v incompatibilities
Storage:		to the special requirements of your local autorithies for storing dangerous goods.
• Requirements to be met by	r ay attention	to the special requirements of your local automatics for storing dangerous goods.
storerooms and receptacles:	Store only in	the original recented
storerooms and receptacies.		the original receptacle. seepage into the ground.
Information about stars in	Use only rece	eptacles specifically permitted for this substance/product.
 Information about storage in 	De met eteme	
one common storage facility:		or park organic peroxide together with heavy metal compounds and amines.
Fourth and information in the	Store away fr	om foodstuffs, drinks and feeding stuffs.
Further information about		
storage conditions:		er tightly sealed.
		heat and direct sunlight.
		contamination.
	Storage in a	collecting room is required.
Recommended storage		
temperature (To maintain		
quality):	-2515 °C	
Control temperature:	-15 °C	
Emergency temperature:	-5 °C	
Storage class:	5.2	
~		(Contd. on page 4
		MT

Printing date 03.04.2024

Version: 7 (replaces version 6)



Revision: 16.02.2023

Trade name: PEROXAN EPC-75

7.3 Specific end use(s)		No further relevant information available.	(Contd. of page
SECTION 8: Exposu	re contro	Is/personal protection	
8.1 Control parameters Ingredients with limit that require monitorin workplace:	values	The product does not contain any relevant quantities of materials with critical values that ha monitored at the workplace.	ve to be
·DNELs			
16111-62-9 bis(2-ethylh	nexyl) pero	xydicarbonate	
		6,67 mg/kg bw/day (Worker)	
Inhalative DNEL Longte	rm System	11,75 mg/m3 (Worker)	
PNECs			
16111-62-9 bis(2-ethylh	nexyl) pero	xydicarbonate	
PNEC Marinewater sed			
PNEC Freshwater	0,032 mg/		
PNEC Freshwater sed	0,228 mg/	kg sed dw (-)	
PNEC Soil		/kg soil dw (-)	
PNEC STP	1,5 mg/l (A	\F 10)	
PNEC Marinewater	0,0032 mg	/I (AF 500)	
· Additional informatio	n:	The lists valid during the making were used as basis.	
hygienic measures:		The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid close or long term contact with the skin. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection.	
• Respiratory protection:		Be sure to clean skin thoroughly after work and before breaks. Not necessary if room is well-ventilated. Use suitable respiratory device when it exceed exposure limit and when insufficient	ly ventilated.
· Hand protection		Filter A2 Only use chemical-protective gloves with CE-labelling of category III. Selection of the glove material on consideration of the penetration times, rates of did degradation	ffusion and t
 Material of gloves 		Protective gloves The selection of the suitable gloves does not only depend on the material, but also on furthe quality and varies from manufacturer to manufacturer. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene	er marks of
 Penetration time of g material 	glove	The exact break trough time has to be found out by the manufacturer of the protective glove observed.	s and has to
· Eye/face protection		Tightly sealed goggles	
· Body protection:		Protective work clothing	

Printing date 03.04.2024

Version: 7 (replaces version 6)



Revision: 16.02.2023

(Contd. of page 4)

Trade name: PEROXAN EPC-75

SECTION 9: Physical and chemical properties	
9.1 Information on basic physical and chemical properties	
· General Information	
· Colour:	Colourless
Odour:	Solvent-like
Odour threshold:	Not determined.
Melting point/freezing point:	Not applicable.
· Boiling point or initial boiling point and boiling range	Not applicable.
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	57 °C
· Decomposition temperature:	+5 °C (SADT)
· pH	Not determined.
· Viscosity:	Not determined.
Kinematic viscosity	Not determined.
•	Not determined.
· Dynamic:	
Solubility	Indetermined
· water:	Undetermined.
Partition coefficient n-octanol/water (log value)	not determined
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	0,921 g/cm ³
Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	No further relevant information available.
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environme	
and on safety.	
· Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour
	mixtures are possible.
· Change in condition	
· Evaporation rate	Not determined.
-	Not determined.
Information with regard to physical hazard classes	
⁻ Explosives	Void
[·] Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void
 Self-reactive substances and mixtures 	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
Self-heating substances and mixtures	Void
• Substances and mixtures, which emit flammable gases in	
contact with water	Void
Oxidising liquids	Void
· Oxidising solids	Void
Organic peroxides	Heating may cause a fire.
· Corrosive to metals	Void
Desensitised explosives	Void
· Other safety characteristics	volu
· Active oxygen	3,4 - 3,6 %
Active Oxygen	J,4 - J,U 70

SECTION 10: Stability and reactivity

10.1 Reactivity
 10.2 Chemical stability

 Thermal decomposition / conditions to be avoided: No further relevant information available.

SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be cause decomposition at and above the temperature. Contact with incompatible substances can cause

Printing date 03.04.2024

Version: 7 (replaces version 6)



Revision: 16.02.2023

Trade name: PEROXAN EPC-75

(Contd. of page 5)
mposition at or below the SADT.
ecomposition if used and stored according to specifications.
void thermal decomposition do not overheat.
accelerating decomposition at SADT.
Irther relevant information available.
d decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g.
y-metal compounds and amines).
ocarbons, carbondioxide and -monoxid.
azardous decomposition products if used and stored according to specifications.
rgency procedures will vary depending on conditions. The customer should have an emergency onse plane in place.

SECTION 11: Toxicological information

· 11.1 Information on hazard clas	ses as defined in Regulation (EC) No 1272/2008		
· Acute toxicity	Based on available data, the classification criteria are not met.		
· LD/LC50 values relevant for cl	assification:		
16111-62-9 bis(2-ethylhexyl) per	oxydicarbonate		
Oral LD50 >2.000 mg/kg (ratt	us)		
Dermal LD50 >2.000 mg/kg (ratte	Dermal LD50 >2.000 mg/kg (rattus)		
93685-81-5 Hydrocarbons, C4, 1	,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated		
Oral LD50 >5.000 mg/kg (ratt	us)		
Skin corrosion/irritation	Causes skin irritation.		
· Serious eye damage/irritation	Causes serious eye damage.		
Respiratory or skin			
sensitisation	May cause an allergic skin reaction.		
 Germ cell mutagenicity 	Based on available data, the classification criteria are not met.		
 Carcinogenicity 	Based on available data, the classification criteria are not met.		
 Reproductive toxicity 	Based on available data, the classification criteria are not met.		
 STOT-single exposure 	Based on available data, the classification criteria are not met.		
 STOT-repeated exposure 	Based on available data, the classification criteria are not met.		
 Aspiration hazard 	May be fatal if swallowed and enters airways.		
 11.2 Information on other hazar 	ds		
 Endocrine disrupting propertie 	S		
None of the ingredients is listed.			

SECTION 12: Ecological information

· 12.1 Toxicity			
 Aquatic toxicity: 			
93685-81-5 Hydrocarbons, C4	, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated		
EC50 / 48h >0,04 mg/l (daphnia	a)		
IC50 / 72h >0,04 mg/l (algae)	IC50 / 72h >0,04 mg/l (algae)		
· 12.2 Persistence and degrada	bility		
· Degree of elimination:	•		
· Classification:			
16111-62-9 bis(2-ethylhexyl) p	eroxydicarbonate		
Degradation (Readily biodegra	dable) (OECD 301 B)		
93685-81-5 Hydrocarbons, C4	1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated		
Degradation (Not readily biode	gradable)		
12.3 Bioaccumulative potentia	al		
· Partition coefficient: nOctan	ol/water: [Log Kow]		
16111-62-9 bis(2-ethylhexyl) pe	eroxydicarbonate	2,73	
12.4 Mobility in soil	No further relevant information available.		
 12.5 Results of PBT and vPvB 	assessment		
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.		
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.		
 12.6 Endocrine disrupting 			
properties	The product does not contain substances with endocrine disrupting properties.		
12.7 Other adverse effects	No further relevant information available.		
	(Contd. o	n page 7)	



Version: 7 (replaces version 6)

Revision: 16.02.2023

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The Peroxide Company

Trade name: PEROXAN EPC-75

	(Contd. of page 6
Remark:	Toxic for fish
 Additional ecological informati 	on:
 General notes: 	Toxic for aquatic organisms
	Also poisonous for fish and plankton in water bodies.
	Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
	Do not allow product to reach ground water, water course or sewage system.
	Danger to drinking water if even small quantities leak into the ground.
SECTION 13: Disposal consi	derations
13.1 Waste treatment methods	
· Recommendation	After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a special treatment (e. g. thermal utilization) under observance of all official regulations.
	Must not be disposed together with household garbage. Do not allow product to reach sewage
	system.
· Waste disposal key:	Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-
nuoto ulopoour nojr	number.
· Uncleaned packaging:	
Recommendation:	This material and its container must be disposed of as hazardous waste.
SECTION 14: Transport info	rmation
SECTION 14: Transport info	rmation

 14.1 UN number or ID number ADR, IMDG 	UN3115
 14.2 UN proper shipping name ADR 	UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (DI-(2-ETHYLHEXYL)-PEROXYDICARBONATE)
·IMDG	ORGANIC PERÒXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLEI (DI-(2-ETHYLHEXYL)-PEROXYDICARBONATE)
· 14.3 Transport hazard class(es)	
ADR	
· Class · Label	5.2 (P2) Organic peroxides. 5.2
·IMDG	0.2
Class	5.2 Organic peroxides.
·Label	5.2
· IATA · Class	х
·Label	x
· 14.4 Packing group	
· ADR, IMDG	Void
 14.5 Environmental hazards: Marine pollutant: 	No
14.6 Special precautions for user	Warning: Organic peroxides.
Hazard identification number (Kemler code):	-
Stowage Category	D SN/4 Destants of fears assumed of heart
· Stowage Code	SW1 Protected from sources of heat. SW3 Shall be transported under temperature control.
· Segregation Code	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
· 14.7 Maritime transport in bulk according to IMO instr	uments Not applicable

(Contd. on page 8)

Printing date 03.04.2024

Version: 7 (replaces version 6)

The Peroxide Company

Revision: 16.02.2023

Trade name: PEROXAN EPC-75

	(Contd. of page
Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	0
· Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· Transport category	1
 Tunnel restriction code 	D
· RID / GGVSEB:	no admission
·IMDG	
· Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
,	Not permitted as Excepted Quantity
ΙΑΤΑ	
· Remarks:	no admission
Control temperature:	-15 °C
Emergency temperature:	-5 °C

SECTION 15: Regulatory information

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

 Directive 2012/18/EU Named dangerous substances 	
- ANNEX I	None of the ingredients is listed.
Seveso category	P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
Qualifying quantity (tonnes) for	
the application of lower-tier requirements	50 t
· Qualifying quantity (tonnes) for	
the application of upper-tier	
requirements	200 t
REGULATION (EC) No	
1907/2006 ANNEX XVII	Conditions of restriction: 3
DIRECTIVE 2011/65/EU on the r	estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
None of the ingredients is listed.	
· REGULATION (EU) 2019/1148	
Annex I - RESTRICTED EXPLO	SIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
· Annex II - REPORTABLE EXPL	OSIVES PRECURSORS
None of the ingredients is listed.	
· Regulation (EC) No 273/2004 or	n drug precursors
None of the ingredients is listed.	
 Regulation (EC) No 111/2005 la precursors 	ying down rules for the monitoring of trade between the Community and third countries in drug
None of the ingredients is listed.	

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

 Department issuing SDS: 	Environment protection / Security of labour
· Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
· Version number of previous	
version:	6
· Abbreviations and acronyms:	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
	IMDG. International Maritime Code for Dangerous Goods
	IATA: International Air Transport Association
	GHS: Globally Harmonised System of Classification and Labelling of Chemicals
	EINECS: European Inventory of Existing Commercial Chemical Substances



Version: 7 (replaces version 6)

Revision: 16.02.2023

Trade name: PEROXAN EPC-75

		(Contd. of page 8)
	ELINCS: European List of Notified Chemical Substances	(- 13-)
	CAS: Chemical Abstracts Service (division of the American Chemical Society)	
	DNEL: Derived No-Effect Level (REACH)	
	PNEC: Predicted No-Effect Concentration (REACH)	
	LC50: Lethal concentration, 50 percent	
	LD50: Lethal dose, 50 percent	
	PBT: Persistent, Bioaccumulative and Toxic	
	vPvB: very Persistent and very Bioaccumulative	
	Flam. Lig. 3: Flammable liquids – Category 3	
	Org. Perox. C: Organic peroxides – Type C/D	
	Org. Perox. D: Organic peroxides – Type C/D	
	Skin Irrit. 2: Skin corrosion/irritation – Category 2	
	Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
	Skin Sens. 1: Skin sensitisation – Category 1	
	Asp. Tox. 1: Aspiration hazard – Category 1	
	Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4	
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 * Data compared to the previous version altered.

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