

Printing date 04.04.2007 Reviewed on 21.03.2007

# 1 Identification of the substance/preparation and of the company/undertaking

#### **Product details**

Trade name Eurolan FK Inject PU, Komp.A

Safety data sheet no.: 49PD10372-a/5

Application of the substance / the preparation

Construction chemicals Polyurethane resin

#### Manufacturer/Supplier:

maxit France s.a.s 4 rue de Mulhouse Boîte Postale 27 F-68180 Horbourg-Wihr

Tel.: ++33(0)3 89 20 10 80 FAX: ++33(0)3 89 20 10 92

# Information in case of emergency:

maxit France s.a.s

Tel.: ++33(0)3 89 20 10 80

# 2 Composition/information on ingredients

#### Chemical characterization

**Description:** Mixture: consisting of the following components.

Dangerous components:				
78-42-2	tris(2-ethylhexyl) phosphate	10 - 20%		
	x Xi; R 36/38			
123-42-2	4-hydroxy-4-methylpentan-2-one	2 - 5%		
	x Xi; R 36			
64742-95-6	Solvent naphtha (petroleum), light arom.	0,1 - 1%		
	Xn, Xi, W N; R 10-37-51/53-65-66-67			

**Additional information** For the wording of the listed risk phrases refer to section 16.

# 3 Hazards identification

Hazard description: Not applicable.

Information concerning particular hazards for human and

environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

# 4 First aid measures

**General information** Immediately remove any clothing soiled by the product.

After inhalation Supply fresh air; consult doctor in case of complaints.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

Generally the product does not irritate the skin.

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#### After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Rinse liquid should be tempered (20-30°C).

#### After swallowing

Rinse out mouth with water. Do not induce vomiting. Seek medical attention and present this data sheet.

# **5 Fire fighting measures**

#### Suitable extinguishing agents

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents Water with full jet

Special hazards caused by the substance, its products of

# combustion or resulting gases:

In case of fire, the following can be released:

Nitrogen oxides (NOx)

Sulphur dioxide (SO2)

Carbon monoxide (CO)

**Protective equipment:** Wear self-contained respiratory protective device.

#### **6 Accidental release measures**

#### Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

# Measures for environmental protection:

The product must not get into watercourses

or into the soil.

Suppress gases/fumes/haze with water spray.

#### Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional information: See Section 13 for disposal information.

# 7 Handling and storage

**Information for safe handling:** No special measures required.

Information about fire - and explosion protection: No special measures required.

## Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles.

#### Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

#### Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from frost.

Protect from heat and direct sunlight.



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# 8 Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

#### Ingredients with limit values that require monitoring at the workplace:

#### Additional information:

Te applicable TRGS 900 (MAK list) was used as the basis for the preparation and/or revision of this safety data sheet.

## Personal protective equipment:

#### General protective and 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.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke or sniff while working.

#### **Respiratory protection:**

Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use respiratory

filter device. In case of intensive or longer exposure use self-

contained respiratory protective device.

Short term filter device:

Filter AX.

#### **Protection of hands:**

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

# **Material of gloves**

Nitrile rubber, NBR

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

## Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed goggles **Body protection:** Protective work clothing.

# 9 Physical and chemical properties:

# Form: Fluid Colour: According to product specification Odour: Characteristic Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: 200°C (392°F) (DIN) Flash point: > 100°C (> 212°F) (DIN ISO 2592) Ignition temperature: 380°C (716°F) (DIN 51794)

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# Trade name Eurolan FK Inject PU, Komp.A

		(Contd. of page 3
Decomposition temperature:	>300 ° C	
Self-igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower: Upper:	nicht bestimmt Vol % nicht bestimmt Vol %	
Density at 20°C (68°F):	0,997 g/cm³ (DIN 51757)	
Bulk density:	Not applicable.	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix	
pH-value:	Not applicable.	
Viscosity: dynamic at 20°C (68°F): kinematic: Solvent content: Organic solvents:	390 mPas (DIN 53019) Not determined.	
Additional information:	None.	

# 10 Stability and reactivity

Thermal decomposition / Conditions to be avoided: No decomposition if used according to specifications. Dangerous reactions: Reacts with strong oxidizing agents

Dangerous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

Compone	nts	Туре	Value	Species	
Polyether	polyol				
Oral	LD50	> 5000 mg/kg (rat)			
78-42-2 tr	is(2-ethyll	nexyl) phosphate			
Oral	LD50	12800 mg/kg (mou:	se)		
		37000 mg/kg (rat)			
91082-17-	6 Alkylsul	fonsäureester des	Phenols		
Oral	LD50	> 5000 mg/kg (rat)			
Dermal	LD50	> 1000 mg/kg (rat)			
770-35-4	770-35-4 1-Phenoxypropan-2-ol				
Oral	LD50	4197 mg/kg (rat)			
Dermal	LD50	> 2000 mg/kg (rabb	oit)		
Inhalative	LC50/4 h	> 5400 mg/l (rat)			

Primary irritant effect: on the skin: No irritant effect. on the eye: Slightly irritating

**Sensitization:** No sensitizing effects known.

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#### Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

# 12 Ecological information:

Information about elimination (persistence and degradability):

Other information: The product is difficultly biodegradable.

Behaviour in environmental systems:

Mobility and bioaccumulation potential:
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# 78-42-2 tris(2-ethylhexyl) phosphate

Biokonzentr.-faktor 2-22 (Cyprinus Carpio (Karpfen))

EBAB 5,4 log Pow

# 770-35-4 1-Phenoxypropan-2-ol

EBAB 1,61 log Pow (-)

#### **Ecotoxical effects:**

**Acquatic toxicity:** 

# Polyetherpolyol

LC0/48h > 100 mg/l (Leuciscus idus (Goldorfe))

# 78-42-2 tris(2-ethylhexyl) phosphate

EC 0/48h >0,08 mg /l (dap)

LC50/96h >100 mg/l (Brachydanio rerio (Zebrabärbling))

#### 91082-17-6 Alkylsulfonsäureester des Phenois

EC50/48h > 1000 mg/l (dap)

EC50/72h > 10000 mg/l (scenedesmus subspicatus (Alge))

LC0/96h | 100 mg/l (Brachydanio rerio (Zebrabärbling))

#### 770-35-4 1-Phenoxypropan-2-ol

LC0/96h 250 mg/l (Brachydanio rerio (Zebrabärbling))

LC50/96h | 297 mg/l (Brachydanio rerio (Zebrabärbling))

#### **General notes:**

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.

# 13 Disposal considerations

#### **Product:**

## Recommendation

After prior treatment product has to be landfilled or incinerated adhering to the regulations pertaining to the disposal of especially hazardous waste.

# European waste catalogue

07 02 08 other still bottoms and reaction residues

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## Trade name Eurolan FK Inject PU, Komp.A

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# Uncleaned packaging: Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

# **14 Transport information**

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic) ADR/RID-GGVS/E Class: -

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class:

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class:

**Transport/Additional information:** Not dangerous according to the above specifications.

# 15 Regulatory information

#### Labelling according to EU guidelines:

The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EU" as issued in the latest valid version.

Observe the general safety regulations when handling chemicals.

# Special labelling of certain preparations:

Safety data sheet available for professional user on request.

#### 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.

#### Relevant R-phrases

- 10 Flammable.
- 36 Irritating to eyes.
- 36/38 Irritating to eyes and skin.
- 37 Irritating to respiratory system.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

**Department issuing MSDS:** Product safety department **Contact:** Mr Gilles Weber, Tel.: ++33(0)3 89 20 10 93

\* Data compared to the previous version altered.



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# 1 Identification of the substance/preparation and of the company/undertaking

#### **Product details**

Trade name Eurolan FK Inject PU, Komp.B

Safety data sheet no.: 49PD10372-b/5

Application of the substance / the preparation

Construction chemicals
Hardening agent/ Curing agent

#### Manufacturer/Supplier:

maxit France s.a.s 4 rue de Mulhouse Boîte Postale 27 F-68180 Horbourg-Wihr

Tel.: ++33(0)3 89 20 10 80 FAX: ++33(0)3 89 20 10 92

# Information in case of emergency:

maxit France s.a.s

Tel.: ++33(0)3 89 20 10 80

# 2 Composition/information on ingredients

#### Chemical characterization

**Description:** Modified polyisocyanates

Dangerou	s components:	
9016-87-9	diphenylmethanediisocyanate,isomeres and homologues Xn, Xi; R 20-36/37/38-42/43	> 50%
	tris(2-ethylhexyl) phosphate  Xi; R 36/38	10 - 20%

Additional information For the wording of the listed risk phrases refer to section 16.

# 3 Hazards identification

#### Hazard description:



Xn Harmful

# Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 20 Harmful by inhalation.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 42/43 May cause sensitisation by inhalation and skin contact. Contains isocyanates. See information supplied by the manufacturer

#### Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

EU



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Trade name Eurolan FK Inject PU, Komp.B

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# 4 First aid measures

#### **General information**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove the victim immediately from the danger area. If the patient is unwell consult a doctor and preent this data sheet.

#### 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.

#### After skin contact

Treat affected skin with cotton wool or cellulose. Then wash and

rinse thoroughly with water and a mild cleaning agent.

#### After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Rinse liquid should be tempered (20-30°C).

#### After swallowing

Rinse out mouth with water. Do not induce vomiting. Seek medical attention and present this data sheet.

# **5 Fire fighting measures**

#### Suitable extinguishing agents

CO2, powder or water spray. Fight larger fires with water spray

or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents Water with full jet

Special hazards caused by the substance, its products of

# combustion or resulting gases:

In case of fire, the following can be released:

Sulphur dioxide (SO2)

Hydrogen cyanide (HCN)

**Protective equipment:** Wear self-contained respiratory protective device.

#### **Additional information**

Dispose of fire debris and contaminated fire fighting water in

accordance with official regulations.

## **6 Accidental release measures**

#### Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

#### Measures for environmental protection:

The product must not get into watercourses

or into the soil.

Suppress gases/fumes/haze with water spray.

#### Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

Additional information: See Section 13 for disposal information.

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Trade name Eurolan FK Inject PU, Komp.B

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# 7 Handling and storage

#### Handling

# Information for safe handling:

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Store in cool, dry place in tightly closed receptacles.

Information about fire - and explosion protection: No special measures required.

#### **Storage**

# Requirements to be met by storerooms and receptacles:

Store in a cool location.

Store only in the original receptacle.

#### Information about storage in one common storage facility:

Store away from oxidizing agents.

Store away from foodstuffs.

## Further information about storage conditions:

Protect from frost.

Store in dry conditions.

Protect from heat and direct sunlight.

# 8 Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

#### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

## Additional information:

Te applicable TRGS 900 (MAK list) was used as the basis for the preparation and/or revision of this safety data sheet.

#### Personal protective equipment:

# General protective and 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.

Avoid contact with the eyes and skin.

Use a moisturising skin cream after processing the product.

Do not eat, drink, smoke or sniff while working.

#### Respiratory protection:

Use suitable respiratory protective device in case of

insufficient ventilation.

In case of brief exposure or low pollution use respiratory

filter device. In case of intensive or longer exposure use self-

contained respiratory protective device.

Short term filter device:

Filter AX.

#### Protection of hands:

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

# Material of gloves

Butyl rubber, BR





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Trade name Eurolan FK Inject PU, Komp.B

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Nitrile rubber, NBR

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

## Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed goggles **Body protection:** Protective work clothing.

# 9 Physical and chemical properties:

General Information	
Form: Colour: Odour:	Fluid According to product specification Characteristic
Change in condition Melting point/Melting range Boiling point/Boiling range:	
Flash point:	210°C (410°F) (DIN ISO 2592)
Ignition temperature:	400°C (752°F) (DIN 51794)
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper:	nicht anwendbar nicht anwendbar
Vapour pressure:	Not determined.
Density at 20°C (68°F):	1,216 g/cm³ (DIN 51757)
Bulk density:	Not applicable.
Solubility in / Miscibility with Water:	unsoluble, reacts (see point 10)
pH-value:	Not applicable.
Viscosity: dynamic at 20°C (68°F): kinematic:	106 mPas (DIN 53019) Not determined.
Solvent separation test: Solvent content: Organic solvents:	Not determined 0,0 %
Additional information:	None.

# 10 Stability and reactivity

# Thermal decomposition / Conditions to be avoided:

No decomposition if used according to specifications.

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#### **Dangerous reactions:**

Exothermic reaction with amines and alcohols. CO2 generation with water; pressure build-up (danger of bursting) in closed containers.

Can react violently with oxygen rich (oxidizing) material.

Danger of Explosion.

Corrodes copper and brass

Dangerous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information

## Acute toxicity:

LD/LC50 values relevant for classification:

Components		Туре	Value	Species
9016-87-9	diphenylı	methanediisocyan	ate,isomer	res and homologues
Oral	LD50	> 15000 mg/kg (rat	t)	
Dermal	LD50	> 5000 mg/kg (rabl	bit)	
Inhalative	LC50/4 h	490 mg/l (rat)		
78-42-2 tr	is(2-ethyll	nexyl) phosphate		
Oral	LD50	12800 mg/kg (mou	se)	
		37000 mg/kg (rat)		
91082-17-6 Alkylsulfonsäureester des Phenols				
Oral	LD50	> 5000 mg/kg (rat)		
Dermal	LD50	> 1000 mg/kg (rat)		

#### Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization:

Sensitization possible through inhalation. Sensitization possible through skin contact.

# Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant Harmful

# 12 Ecological information:

Information about elimination (persistence and degradability):

Method

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Abbaubarkeit (28d) 0 % (Respirometer-Test)

Other information: The product is difficultly biodegradable.

Behaviour in environmental systems:

Mobility and bioaccumulation potential:

78-42-2 tris(2-ethylhexyl) phosphate

Biokonzentr.-faktor 2-22 (Cyprinus Carpio (Karpfen))

**EBAB** 5,4 log Pow

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# **Ecotoxical effects:**

#### **Acquatic toxicity:**

Type of test Effective concentration Method Assessment	

## 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

EC50/24h >1000 mg/l (dap)

LC0/96h >1000 mg/l (Brachydanio rerio (Zebrabärbling))

# 78-42-2 tris(2-ethylhexyl) phosphate

EC 0/48h >0,08 mg /l (dap)

LC50/96h >100 mg/l (Brachydanio rerio (Zebrabärbling))

#### 91082-17-6 Alkylsulfonsäureester des Phenols

EC50/48h > 1000 mg/l (dap)

EC50/72h > 10000 mg/l (scenedesmus subspicatus (Alge))

LC0/96h 100 mg/l (Brachydanio rerio (Zebrabärbling))

#### **General notes:**

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.

# 13 Disposal considerations

#### **Product:**

#### Recommendation

After prior treatment product has to be landfilled or incinerated adhering to the regulations pertaining to the disposal of especially hazardous waste.

# European waste catalogue

07 02 08 other still bottoms and reaction residues

#### **Uncleaned packaging:**

#### **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Recommended cleaning agent: Water, if necessary together with cleansing agents.

# **14 Transport information**

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic) ADR/RID-GGVS/E Class: -

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class:

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class:

Transport/Additional information: Not dangerous according to the above specifications.

ΕU



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Trade name Eurolan FK Inject PU, Komp.B

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# 15 Regulatory information

#### Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Observe the general safety regulations when handling chemicals.

#### Code letter and hazard designation of product:



Xn Harmful

#### Hazard-determining components of labelling:

diphenylmethanediisocyanate,isomeres and homologues

#### Risk phrases:

20 Harmful by inhalation.

36/37/38 Irritating to eyes, respiratory system and skin.

42/43 May cause sensitisation by inhalation and skin contact.

#### Safety phrases:

- 2 Keep out of the reach of children.
- 23 Do not breathe fumes.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- After contact with skin, wash immediately with plenty of water.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 46 If swallowed, seek medical advice immediately and show this container or label.

# Special labelling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer

#### **National regulations**

Other regulations, limitations and prohibitive regulations BG-Merkblätter: M 044 "Polyurethane production/Isocyanates"

# 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.

# Relevant R-phrases

20 Harmful by inhalation.

36/37/38 Irritating to eyes, respiratory system and skin.

36/38 Irritating to eyes and skin.

42/43 May cause sensitisation by inhalation and skin contact.

**Department issuing MSDS:** Product safety department **Contact:** Mr Gilles Weber, Tel.: ++33(0)3 89 20 10 93 \* **Data compared to the previous version altered.**