Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 07.03.2024 Version number 4 (replaces version 3) Revision: 07.03.2024

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

1.1 Product identifier

Trade name: TUB O FLO HOT

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
Application of the substance / the mixture: Drainpipe Opener

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
GR. SARANTIS S.A.
26, Amaroussiou - Halandriou Str.,
151 25 Maroussi, Athens
Tel: +30 210 6173000 - Fax: +30 210 6197100
e-mail: info@sarantis.gr

1.4 Emergency telephone number:

European Emergency Tel.: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation EC No 1272/2008 CLP:

GHS05 corrosion

Met. Corr.1	H290 May be corrosive to metals.
Skin Corr. 1A	H314 Causes severe skin burns and eye damage.
Eye Dam. 1	H318 Causes serious eye damage.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements
Labelling according to Regulation EC No 1272/2008 CLP:
The product is classified and labelled according to the CLP regulation.
Hazard pictograms:

GHS05

Signal word: Danger

Hazard-determining components of labelling:
sodium hydroxide

Hazard statements:
H290 May be corrosive to metals.

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H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102	Keep out of reach of children.
P234	Keep only in original packaging.
P260	Do not breathe dust.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection / face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:
EUH208 Contains terpinolene. May produce an allergic reaction.

Regulation (EC) No 648/2004 on detergents / Labelling for contents	
aliphatic hydrocarbons	<5%
perfumes (LIMONENE)	

Classification system:
The classification of the product is according the European Chemicals Agency index, but it is also based to additional scientific bibliography and company data.

2.3 Other hazards
Results of PBT and vPvB assessment
The product does not contain ingredients that are considered either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
PBT: Not applicable.
vPvB: Not applicable.
Determination of endocrine-disrupting properties
The product does not contain substances included in the list established in accordance with Article 59(1) of REACH for endocrine disrupting properties or has not been identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or higher than 0.1%.

*
SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Mixture: consisting of the following components.

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Ingredients according Regulation (EU) 2020/878:

CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6 Reg.nr.: 01-2119457892-27-XXXX	sodium hydroxide Met. Corr.1, H290; Skin Corr. 1A, H314 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 % substance with a Community workplace exposure limit	60-<70%
CAS: 497-19-8 EINECS: 207-838-8 Index number: 011-005-00-2 Reg.nr.: 01-2119485498-19-XXXX	sodium carbonate Eye Irrit. 2, H319	25-<30%
CAS: 8042-47-5 EINECS: 232-455-8 Reg.nr.: 01-2119487078-27-XXXX	White mineral oil, petroleum Asp. Tox. 1, H304	≤2%
CAS: 586-62-9 EINECS: 209-578-0	terpinolene Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1B, H317	<0.5%

SVHC
This product does not contain candidate substances of very high concern at a concentration ≥0.1% (Regulation (EC) No 1907/2006 (REACH), Article 59)
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 measures

General information:
Immediately remove any clothing soiled by the product.
Take affected persons out into the fresh air.
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:
Immediately wash with water and soap and rinse thoroughly.
Wash contaminated clothing before use.
Remove contaminated clothing.
If skin irritation continues, consult a doctor.
After eye contact:
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.
Check for and remove any contact lenses.
Continue to rinse for at least 10 minutes.
Get medical attention if irritation occurs.
After swallowing:
Drink plenty of water and provide fresh air. Call for a doctor immediately.

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Consult the doctor immediately and show the label or this Safety Data Sheet.
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: No fire hazard
5.2 Special hazards arising from the substance or mixture No further relevant information available.
5.3 Advice for firefighters
Protective equipment: No special measures required.
Additional information
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.
Ensure adequate ventilation.
Avoid contact with spilled material.
Goggles and/ or face shield, if contact with eyes or splashes are anticipated.
Avoid contact with skin and eyes.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
Send for recovery or disposal in suitable receptacles.
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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Thorough dedusting.
Open and handle receptacle with care.
Prevent formation of dust.
Prevent formation of aerosols.
Avoid contact with skin, eyes and clothing.
Information about fire - and explosion protection: No special measures required.
7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: Store in a cool location.
Information about storage in one common storage facility: Not required.
Further information about storage conditions:
Keep container tightly sealed.

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Store under lock and key and with access restricted to technical experts or their assistants only.
Store under lock and key and out of the reach of children.
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
CAS: 1310-73-2 sodium hydroxide	
WEL (Great Britain)	Short-term value: 2 mg/m³

DNELs
(CAS: 1310-73-2) sodium hydroxide
Workers, by inhalation, long-term exposure, local effects: 1 mg/m³
Consumers, by inhalation, long-term exposure, local effects: 1 mg/m³
(CAS: 497-19-8) sodium carbonate
Workers, inhalation, systemic effects, long-term/short-term:10 mg/m³
General population, inhalation, systemic effects, long-term/short-term: 10 mg/m³
(CAS: 586-62-9) p-menth-1,4(8)-diene
Employees
Long-term exposure, dermal, systemic effects: 0,52 mg/kg
Long-term exposure, inhalation, systemic effects: 3,6 mg/m³.
General population
Long-term exposure, oral, systemic effects: 0,26 mg/kg
Long-term exposure, dermal, systemic effects: 0,26 mg/kg
Long-term exposure, inhalation, systemic effects: 0,9 mg/m³
(CAS: 8042-47-5) White, mineral oil (petroleum)
Workers:
Long-term exposure, systemic effects, hazard via inhalation route: 164.56 mg/m³
Long-term exposure, systemic effects, hazard via dermal route: 217.05 mg/kg bw/day
General population:
Long-term exposure, systemic effects, hazard via inhalation route: 34.78 mg/m³
Long-term exposure, systemic effects, hazard via dermal route: 93.02 mg/kg bw/day
Long-term exposure, systemic effects, hazard via oral route: 25 mg/kg bw/day

PNECs
(CAS: 1310-73-2) sodium hydroxide
fresh water: 2.2 mg/l
marine water: 0.22 mg/l
intermittent release: 1.2 mg/l
soil: 0.72 mg/kg
processing unit: 43 mg/l
(CAS: 497-19-8) sodium carbonate

Final pH:	9	10	11
0 mg/l HCO3- (distilled water)	1.1 (0.6)	16 (6.1)	603 (61)
20 mg/l HCO3- (20 mg/l HCO3- (10th percentile of 77 rivers)	2.7 (21)	32 (26)	766 (81)
106 mg/l HCO3- (mean value of 77 rivers)	9.7 (107)	102 (112)	1467 (167)
195 mg/l HCO3- (90th percentile of 77 rivers)	17 (196)	175 (201)	2192 (256)

(CAS: 586-62-9) p-menth-1,4(8)-diene
Waste water treatment plant: 0,2 mg/L
Fresh water: 0,000634 mg/L
Soil: 0,0291 mg/kg

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Seawater: 0,000063 mg/L
Intermittent: 0,00634 mg/L
Freshwater sediment: 0,147 mg/kg
Secondary poisoning: 0,01031 g/kg
Seawater sediment: 0,0147 mg/kg
Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

8.2.1. Appropriate engineering controls Ensure that there is close shower and eye wash station.
Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
Do not breathe vapours or mists.
Do not eat, drink or smoke during work.
Avoid inhalation and ingestion of the product.
Clean skin thoroughly immediately after handling the product.
Avoid contact with the eyes and skin.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Respiratory protection:

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.

Hand protection

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves
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 mixture 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.
The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
Eye/face protection

Tightly sealed goggles (EN 166).

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Body protection:

Protective work clothing

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Solid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and boiling range	Not determined
Lower and upper explosion limit	
Lower:	Not determined
Upper:	Not determined
Flash point:	Not applicable
Decomposition temperature:	Not determined
pH	12-13
Viscosity:	
Kinematic viscosity	Not applicable
Dynamic:	Not applicable
Solubility	
water:	Easily soluble.
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not applicable
Density and/or relative density	
Density:	Not determined
Relative density	Not determined
Vapour density	Not applicable
Particle characteristics	

See section 3.

9.2 Other information

Appearance:	
Form:	Granular
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Fusion temperature / range:	
Oxidising properties	Not oxidising
Evaporation rate	Not applicable

Information with regard to physical hazard classes

Explosives	Void

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Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
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	Void
Corrosive to metals	May be corrosive to metals.
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.
10.2 Chemical stability
Thermal decomposition / conditions to be avoided Stable at environment temperature.
10.3 Possibility of hazardous reactions No dangerous reactions known.
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials No further relevant information available.
10.6 Hazardous decomposition products No dangerous decomposition products known.

*

SECTION 11: Toxicological information

11.1 Information on hazard classes 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 classification:		
CAS: 1310-73-2 sodium hydroxide		
Oral	LD50	2,000 mg/kg (rat)
CAS: 497-19-8 sodium carbonate		
Oral	LD50	4,090 mg/kg (rat)
CAS: 8042-47-5 White mineral oil, petroleum		
Oral	LD50	>5,000 mg/kg (rat) (Acute Oral Toxicity)
Dermal	LD50	>2,000 mg/kg (rabbit) (Acute Dermal Toxicity)
Inhalative	LC50/4h (dusts and mists)	>5 mg/l (rat) (Acute Inhalation Toxicity)

Skin corrosion/irritation Causes severe skin burns and eye damage.
Serious eye damage/irritation Causes serious eye damage.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
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.

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STOT-repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.
Additional toxicological information:
Repeated dose toxicity Based on available data, the classification criteria are not met.
11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

*
SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:	
CAS: 497-19-8 sodium carbonate	
EC50 (48h)	265 mg/l (daphnia magna)
LC50 (96h)	740 mg/l (Cambusia afinis)
CAS: 8042-47-5 White mineral oil, petroleum	
EC50 (72h)	>10 mg/l (Pseudokirchneriella subcapitata)
EC50 (48h)	>500,000 mg/l (Crustacea)
LC50 (96h)	>400,000 mg/l (Oncorhynchus mykiss)
NOEC (21d)	100 mg/l (Daphnia magna)

12.2 Persistence and degradability
The surfactant(s) contained in this preperation complies (comply) with the biodegradability criteria as laid doen in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of detergent manufacturer.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.
12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
12.6 Endocrine disrupting properties
The product does not contain substances included in the list established in accordance with Article 59(1) of REACH for endocrine disrupting properties or has not been identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or higher than 0.1%.
12.7 Other adverse effects
Additional ecological information:
General notes: Must not reach sewage water or drainage ditch undiluted or unneutralised.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation

Dispose according to National Regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA UN3262
14.2 UN proper shipping name
ADR 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. mixture
IMDG CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. mixture
IATA Corrosive solid, basic, inorganic, n.o.s. mixture
14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class 8 Corrosive substances.
Label 8
14.4 Packing group
ADR, IMDG, IATA II
14.5 Environmental hazards: Not applicable.
14.6 Special precautions for user Warning: Corrosive substances.
Hazard identification number (Kemler code): 80
EMS Number: F-A,S-B
Segregation groups Alkalis
Stowage Category B
Segregation Code SG35 Stow "separated from" SGG1-acids
14.7 Maritime transport in bulk according to IMO instruments Not applicable.

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Transport/Additional information:

ADR

Excepted quantities (EQ):	E2
Limited quantities (LQ)	1 kg
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
Transport category	2
Tunnel restriction code	E

IMDG

Limited quantities (LQ)	1 kg
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
UN "Model Regulation":	UN 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. MIXTURE, 8, II

*
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
REACH Regulation 1907/2006/EC
Regulation (EU) 2020/878
CLP Regulation 1272/2008/EC
Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.
Council Directive 94/33/EC on the protection of young people at work, as ammended.
Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as ammended

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.

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National regulations:

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57
It doesn't contain substances of very high concern (SVHC).

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

*
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.

Relevant phrases
H290 May be corrosive to metals.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Training hints
Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

Classification according to Regulation (EC) No 1272/2008	
Corrosive to metals	Bridging principles
Skin corrosion/irritation Serious eye damage/irritation	Calculation method
Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Department issuing SDS:

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REACH & Chemical Services Department
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Version number of previous version: 3

Abbreviations and acronyms:
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

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
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
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Met. Corr.1: Corrosive to metals – Category 1
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1B: Skin sensitisation – Category 1B
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

*** Data compared to the previous version altered.**