

# OCTAKLEAN

Code: 00HIO

## Safety Data Sheet compliant with Regulation (EU) 2020/878

Version **7.0.1**

Creation date : **12/04/23**

Revision: **12/04/23**

Print Date : 02/05/23

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Trade name	OCTAKLEAN
UFI :	S1QH-C0GV-000H-GPYQ

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the product

LIQUID ALKALI  
CLEANING AND DESCALING OF MILKING EQUIPMENT  
HIGH DETERGENT CHLORINE FREE ALKALINE CLEANER FOR USE WITH  
ALL MILKING EQUIPEMENT

#### 1.3. Details of the supplier of the safety data sheet

Company identification

Distributed by Kilco (International) Ltd  
Broomhouses 2 Industrial Estate  
Old Glasgow Road - Lockerbie  
United Kingdom DG11 2SD  
+44 (0) 1576 205480

For information regarding this safety data sheet, please contact :  
regulatory@kersia-group.com

#### 1.4. Emergency telephone number

Emergency phone number

Emergency direct number ( 24 hours a day, 7 days a week) : +44 1273  
289451

CARECHEM 24 Great Britain  
Tel. +44 1865 407333

NHS : 111

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

The mixture meets the classification criteria provided for under Regulation (EC) No 1272/2008.

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Substance corrosive to metals - Category 1

H290: May be corrosive to metals.

Skin corrosion - Category 1A

H314: Causes severe skin burns and eye damage.

Serious damage to eyes - Category 1

H318: Causes serious eye damage.

### 2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :



Signal word :

Danger

Contains : Potassium hydroxide+ Sodium hydroxide

Hazard statement(s) :

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

Precautionary statement(s) :

P260: Do not breathe mist/vapours/spray.

P280: Wear face protection, protective clothing, and protective gloves.

P303 + P361 + P353 + P310: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P390: Absorb spillage to prevent material damage.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3. Other hazards

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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### 3.1. Substances

Not applicable as this involves a mixture.

### 3.2. Mixtures

Chemical nature of the mixture : LIQUID ALKALI

Substance(s)	CAS number(s)	EINECS number(s)	index	No registration REACH	Classification according to Regulation (EC) 1272/2008	SCL M-factor ATE	Type
15% <= Sodium hydroxide < 30%	1310-73-2	215-185-5	011-002-00-6	01-2119457892-27	Skin Corr. 1A H314 Met. Corr. 1 H290	C ≥ 5% Skin Corr. 1A H314 2% ≤ C < 5% Skin Corr. 1B H314 0.5% ≤ C < 2% Skin Irrit. 2 H315 Eye Irrit. 2 H319	(1)
5% <= Potassium hydroxide < 10%	1310-58-3	215-181-3	019-002-00-8	01-2119487136-33	Acute Tox. 4 (oral) H302 Skin Corr. 1A H314 Met. Corr. 1 H290	C ≥ 5% Skin Corr. 1A H314 2% ≤ C < 5% Skin Corr. 1B H314 0.5% ≤ C < 2% Skin Irrit. 2 H315 Eye Irrit. 2 H319	(1)
0.1% <= C12-18 alcohol, ethers with EO and monobutyl ether < 1%	146340-16-1	604-522-5			Skin Irrit. 2 H315 Aquatic Acute 1 H400 Aquatic Chronic 3 H412	M Factor (Acute) 1	(1)

#### Type

(1) : Substance classified as hazardous for health and/or the environment

(2) : Substance with an exposure limit at the work station.

Substance of very high concern candidate for the authorisation procedure:

(3) : Substance considered as PBT (persistent, bioaccumulable, toxic)

(4) : Substance considered as vPvB (very persistent, very bioaccumulable)

(5) : Substance considered as carcinogenic category 1A

(6) : Substance considered as carcinogenic category 1B

(7) : Substance considered as mutagenic category 1A

(8) : Substance considered as mutagenic category 1B

(9) : Substance considered as reprotoxic category 1A

(10) : Substance considered as reprotoxic category 1B

(11) : Substance considered as endocrine disrupter

(12) : Other substance considered hazardous to health or the environment

(N) : Nanomaterial

Full text of H- and EUH- phrases : see section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General indications:

Take the contaminated clothes and shoes off immediately. Wash them before wearing them again.

In case of faintness , get medical advice/attention. Show this safety data sheet to the doctor.

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In the event of inhalation :

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

In the event of contact with the skin :

Take off immediately all contaminated clothing.  
Wash immediately with plenty of water for 15 minutes at least.  
Immediately call a POISON CENTER or doctor/physician.

In the event of contact with the eyes :

Rinse at once with a soft stream of water for at least 15 minutes, eyes wide open.  
Remove contact lenses if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor/physician.

In the event of ingestion :

Rinse mouth.  
Do NOT induce vomiting.  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Skin contact : Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Causes severe burns in mouth and digestive tract.  
Risk of perforating digestive tracts.

Inhalation : Inhaling vapours or aerosols can irritate respiratory tracts, including irritation of the nose and throat, a cough and difficulty breathing.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treatments : Symptomatic treatment

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media :

Adapt the extinction agent to the environment  
Agents compatible with other products involved into fire.

Unsuitable extinguishing media :

None from our knowledge.

### 5.2. Special hazards arising from the substance or mixture

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OCTAKLEAN is non-flammable.

### 5.3. Advice for firefighters

Wear independent respiratory equipment and protective suit.  
Collect contaminated firefighting water separately, must not be discharged into the drains.  
Keep containers cool by spraying with water if exposed to fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel :

Respect protective measures presented at heading 8.  
Evacuate non-essential staff and those not equipped with individual protection apparatus.

#### 6.1.2. For emergency responders :

Evacuate the personnel to a safe location.  
Keep people upwind and away from the location of the flow/leak.  
Use personal protection equipment.

### 6.2. Environmental precautions

Intervention limited to trained staff.  
Do not discharge the product directly to sewer or to environment.  
Take as soon as possible all incompatible materials away.  
Informing the authorities if the product penetrates in the sewers or in the waters of the public domain.

### 6.3. Methods and material for containment and cleaning up

#### Small spillage :

Absorb with an inert, non-combustible absorbent material, such as sand, earth, vermiculite or diatomaceous earth.

#### Large spillage :

Mark out, soak up with an inert absorbant and pump in an emergency tank.  
Never return spills in original containers for re-use.  
Keep in suitable, properly labelled and closed containers for disposal.

### 6.4. Reference to other sections

Respect protective measures presented at heading 8.  
Refer to section 13 for the elimination.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Do not eat, drink or smoke in work area. Avoid projections during use.  
Do not breathe mist/vapours/spray.

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Wear suitable protective clothing.  
Avoid contact with skin, eyes and clothing.  
Operate in a well ventilated place.

### 7.2. Conditions for safe storage, including any incompatibilities

#### 7.2.1. Storage :

Keep only in the original container.  
Keep container closed.  
Store in a dry, tempered place and well ventilated, away from gel.  
Keep away from incompatible matters (see heading 10).

#### 7.2.2. Packaging or wrapping materials :

High density polyethylene recommended.

### 7.3. Specific end use(s)

No other recommendation.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Exposure limit values :

Substance	CAS number	Country	Type	Value	Unit	Comments	source
Potassium hydroxide	1310-58-3	GBR	OEL Short term	2	mg/m <sup>3</sup>		International limit values for chemical agents
			ELV (Exposure limit value) :	2	mg/m <sup>3</sup>		
Sodium hydroxide	1310-73-2	GBR	OEL Short term	2	mg/m <sup>3</sup>		International limit values for chemical agents

### 8.2. Exposure controls

According to the requirements of Directive 98/24 /EC, the employer is required to conduct a risk assessment and implement appropriate risks management measures.

\* For any situation where the absence of risk is not proven, he must consider the substitution or reduction of risk by improving in priority processes used and collective protection measures. The effectiveness of the solutions implemented will be checked by measurement in comparison to the statutory limit values for substances defined in Section 8.1.

\* If the risk remains after these corrective actions, he must always check by routinely measuring compliance with regulatory OEL if they exist in section 8.1 and apply all the individual protective measures given in section 8.2.

\* When formalized risk assessment indicates a low risk to workers' health, control of compliance with regulatory OEL may not be considered and all individual protection measures is not always mandatory.

#### 8.2.1. Appropriate engineering controls :

Ensure adequate ventilation.

Apply the necessary technical measures to comply with the professional exposure limit values.

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#### 8.2.2. Individual protection measures, such as personal protective equipment :

##### Eye/face protection :

Use safety glasses or facial screen in conformity with the EN 166 standard.



##### Hand protection :

Use chemical resistant gloves approved to EN 374.

Examples of preferred materials for insulating gloves:

Permeation time  $\geq$  8h

Natural rubber.

Butyl rubber.

Chloroprene rubber.

PVC

Thickness:  $>$  0.5 mm

Fluorinated rubber (Viton)

Thickness:  $>$  0.4 mm

Nitrile rubber.

Thickness:  $>$  0.3 mm



##### Skin protection :

Wear protective clothing conforms to the standards EN 13034 - type 6

##### Respiratory protection :

None under normal conditions of use.

When workers are faced with concentrations greater than the exposure limits, they must wear suitable approved breathing equipment.

During use that causes vapours or aerosols to form, wear a half-mask compliant with standard EN 140 or a full mask compliant with standard EN 136 fitted with a filter (compliant with standard EN 143) of type:

P2: Particles, solid aerosols and liquids



##### Thermal hazards :

Not applicable

##### Health measures :

Safety shower and eye wash fountain near to workplace.

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After using, wash systematically all personal protective equipment.  
Handle in accordance with good industrial hygiene practices and the safety instructions.

### 8.2.3. Environmental exposure controls :

Do not discharge the product directly to sewer or to environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance	Turbid liquid
Colour	Amber
Odour	Not available
Odour threshold	Not available
Melting point	Not applicable
Freezing point	< -10 °C
Boiling point	Not available
Flammability	Not available
Lower explosive limit	Not applicable
upper explosive limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
pH value at 10g/l	12 - 13
Pure pH	> 13
kinematic viscosity	Not available
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Vapour pressure	Not available
Relative density	Not available
Mass density	1.3 - 1.35 g/cm <sup>3</sup>
Vapour density	Not available
Particle characteristics	Not applicable

### 9.2. Other information

Explosive properties	Not applicable
Oxidising properties	Not applicable
Evaporation rate:	Not available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None under normal conditions of use.  
Hazards linked to exothermic reactions.



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### 10.2. Chemical stability

Stable in the recommended storage and handling conditions.

### 10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas.  
Exothermic reactions with acids.

### 10.4. Conditions to avoid

Excessive heat (>50°C)

### 10.5. Incompatible materials

Strong acids and oxidizing agents.  
Light metals and/or colored.

### 10.6. Hazardous decomposition products

None to our knowledge in standard conditions of use.

These data are given for the concentrated mixture. The use of the mixture under its diluted form must be performed in conformity with data given by the technical data sheet and the technical adviser.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) N°1272/2008

#### Substance-related data:

##### Acute toxicity

Potassium hydroxide : LD 50 - oral rat (OECD 425): 333 - 388 mg/kg bw. Harmful if swallowed. - MSDS supplier

Potassium hydroxide ( 50 ) : LD 50 - oral 333 - 388 mg/kg. - MSDS supplier

##### Skin corrosion/irritation

Sodium hydroxide ( 50% ) : Cutaneous contact rat . Corrosive to the skin - MSDS supplier

Potassium hydroxide ( 50% ) : Skin irritation . Causes severe burns. - MSDS supplier

Sodium hydroxide ( 50% ) : Skin corrosion/irritation . Causes severe burns. - MSDS supplier

Sodium hydroxide ( 50% ) : Skin corrosion/irritation . Causes severe burns. - MSDS supplier

##### Serious damage to eyes/eye irritation

Sodium hydroxide ( 50% ) : Eye contact : . corrosive to the eyes - MSDS supplier

Potassium hydroxide ( 50% ) : Serious damage to eyes/eye irritation . Serious damage to eyes - MSDS supplier

Sodium hydroxide ( 50% ) : Serious damage to eyes/eye irritation . corrosive to the eyes - MSDS supplier

Sodium hydroxide ( 50% ) : Serious damage to eyes/eye irritation . Serious damage to eyes - MSDS supplier

##### Respiratory tracts irritation

Sodium hydroxide ( 50% ) : Respiratory tracts irritation . Fog inhalation is irritant for respiratory tract - MSDS supplier

##### Mutagenicity

Sodium hydroxide : . Not mutagenic - MSDS supplier

##### Carcinogenicity

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Sodium hydroxide : mouse . Not carcinogenic - MSDS supplier

### Mix-related data:

#### Acute toxicity

. Not determined for the mixture.

#### Skin corrosion/irritation

Skin corrosivity . The mix is considered to be corrosive for the skin under the criteria of Regulation 1272/2008/EC.

#### Serious damage to eyes/eye irritation

Ocular corrosivity . Causes serious eye damage according to the criteria of Regulation 1272/2008/EC.

#### Respiratory / skin sensitisation

Skin sensitisation . The mixture is not considered as a skin sensitizer according to 1272/2008/EC Regulation.

Respiratory sensitisation . The mixture is not considered as a respiratory sensitizer according to 1272/2008/EC Regulation.

#### Mutagenicity

. The classification criteria are not met given the available data.

#### Carcinogenicity

. The classification criteria are not met given the available data.

#### Reproductive toxicity

. The classification criteria are not met given the available data.

#### Specific target organ toxicity - single exposure

. The classification criteria are not met given the available data.

#### Specific target organ toxicity - repeated exposure

. The classification criteria are not met given the available data.

#### Aspiration hazard

. The classification criteria are not met given the available data.

### Most important symptoms and effects, both acute and delayed :

Skin contact : Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Causes severe burns in mouth and digestive tract.

Risk of perforating digestive tracts.

Inhalation : Inhaling vapours or aerosols can irritate respiratory tracts, including irritation of the nose and throat, a cough and difficulty breathing.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Not concerned

## SECTION 12: ECOLOGICAL INFORMATION

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#### 12.1. à 12.4. Toxicity - Persistence and degradability - Bioaccumulative potential - Mobility in soil

##### Substance-related data:

###### Acute toxicity

Sodium hydroxide : LC 50 - 96 h fishes (Gambusia affinis) 35 - 189 mg/L. - MSDS supplier

###### Degradability

Sodium hydroxide ( 50% ) : Biodegradability aerobic . Not applicable - MSDS supplier

Sodium hydroxide ( 50% ) : Biodegradability anaerobic . Not applicable - MSDS supplier

Sodium hydroxide ( 50% ) : Half life air 13 seconds. Degradation product = sodium carbonate - MSDS supplier

Sodium hydroxide ( 50% ) : Water. . Instantaneous ionization; Degradation products : salts - MSDS supplier

Sodium hydroxide ( 50% ) : soil . Ionization / neutralization - MSDS supplier

###### Bioaccumulation

Sodium hydroxide ( 50% ) : . Not applicable - MSDS supplier

###### Mobility

Sodium hydroxide ( 50% ) : air . Instantaneous degradation - MSDS supplier

Sodium hydroxide ( 50% ) : Water. . Important solubility and mobility - MSDS supplier

Sodium hydroxide ( 50% ) : soil/sediments . Important solubility and mobility; Contamination of ground water in case of rain - MSDS supplier

##### Mix-related data :

###### Acute toxicity

fishes . No data available.

daphnia . No data available.

algae . No data available.

###### Chronic toxicity

. No data available.

###### Degradability

. No data available.

###### Bioaccumulation

. No data available.

###### Mobility

. No data available.

##### Conclusion :

The mixture is not considered to be dangerous for the environment according to 1272/2008/EC Regulation.

#### 12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

#### 12.6 Endocrine disrupting properties

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Not concerned

#### 12.7. Other adverse effects

No additional information available.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

##### Treatment of the mixture :

Do not discharge the product directly to sewer or to environment.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

##### Packaging treatment :

Rinse thoroughly the packaging with water and treat the effluent like wastes.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

### SECTION 14: TRANSPORT INFORMATION

#### ROAD TRANSPORT: Rail/Route (RID/ADR)

14.1 UN no : 3267

14.2 UN proper shipping name :

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S (Sodium hydroxide + Potassium hydroxide)

14.3 Transport hazard class(es) : 8

14.4 Packing group : II

Hazard identification number : 80

Label : 8



Tunnel code : (E)

14.5 Environmental hazard : No

14.6 Special precautions for user : No information.

Limited Quantity (QL): 1L

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#### MARITIME TRANSPORT : IMDG

14.1 UN no :3267

14.2 UN proper shipping name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S (Sodium hydroxide + Potassium hydroxide)

14.3 Transport hazard class(es) : 8



14.4 Packing group : II

14.5 Environmental hazard

Marine pollutant : No

14.6 Special precautions for user : No information.

EmS number :

Limited Quantity (QL): 1L

14.7 Maritime transport in bulk according to IMO instruments : Not concerned

## SECTION 15: REGULATORY INFORMATION

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

Regulation (EU) n°528/2012 concerning the making available on the market and use of biocidal products :  
Not concerned

Regulations relating to the hazards from major accidents :  
SEVESO 3 Directive (2012/18/EC) : Not concerned

Regulations relating to the classification, packaging and labelling of substances and mixtures :  
Regulation (EC) 1272/2008 amended.

Waste regulations :  
2008/98/EC Directive amended by 2015/1127/EC Directive - Regulation 1357/2014/EC  
Decision 2014/955/EC which establishes the list of hazardous waste.

Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals : Not concerned

Protection of workers :

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Directive 98/24/EC of 07/04/1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EU) 2019/1021 of 20 June 2019 on persistent organic pollutants : Not applicable

Regulation (EC) 1005/2009 amended on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors:  
Not concerned

Regulation (EC) 648/2004 :

In conformity with the regulation in force on detergents: Regulation (EC) N° 648/2004.

Ingredient datasheet for the medical staff is available upon written request.

Contains :

< 5% Non-ionic surfactants

Comply with national and local legislation.

UN Globally Harmonised System (GHS) on Classification and Labelling of Chemical (GB CLP - SI 2020 No. 1567) and UK REACH (SI 2020 No. 1577)

#### 15.2. Chemical safety assessment

This safety data sheet has been drafted taking into account the information from exposure scenarios for the substances making up the mixture.

#### SECTION 16: OTHER INFORMATION

The safety data sheet is additional to the technical data sheet but does not replace it. The information given here in is to the best of our knowledge correct and is given in good faith. We must also draw the user's attention on potential risks of the product is used for other purposes for which the product is known.

In no way does it exempt users from being aware of and complying with regulations applicable to their activity. It is their sole responsibility to take all necessary precautions in accordance to the usage of the product they are aware of.

Regulations are only stated in order to help users fulfill the duties involved in the use of the product.

This description should not be considered as exhaustive. It does not exempt users from ensuring if other demands need to be complied with-according to other laws than the ones hereby stated and applicable to holding and usage of the product-demands for which they will remain sole responsibility.

Section(s) modified compared with the previous version :

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

List of H phrases referred to in section 3 :

H290 : May be corrosive to metals.

H302 : Harmful if swallowed.

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H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H400 : Very toxic to aquatic life.

H412 : Harmful to aquatic life with long lasting effects.

Sources of key data used to compile the data sheet :

MSDS supplier

Historical :

Version 7.0.1

Cancel and replaces previous version 7.0.