Fryer boil-out
Saftety data sheet

VITO
oil filter system
MADE IN GERMANY

VITO tabs - Fryer boil-out
Only 3 steps for a clean deep fryer

Intensive cleaner , individually packed as tabs.
Effective cleaning of commercial deep fryers.

VITO AG | Eltastr.6 | 78532 Tuttlingen | P: +49 7461 96289-0 | F: +49 7461 96289-12 | www.vito.ag | info@vito.ag

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.10.2019 **Version number 1** **Revision: 25.10.2019**

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

· 1.1 Product identifier

Trade name: VITO tabs deep fryer cleaner

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

No further relevant information available.

Application of the substance / the preparation: *Cleaning agent / Cleaner*

1.3 Details of the supplier of the safety data sheet

· Manufacturer / Supplier:

VITO AG
Eltastr.6
D- 78532 Tuttlingen
Phone: +49 7461 96289-0
Fax: +49 7461 96289 -12

· E-mail address of the competent person responsible for the Safety Data Sheet: sdb@csb-online.de
· Informing department: Sales

· 1.4 Emergency telephone number:

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

SECTION 2: *Hazards identification*

2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

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.*

·2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms

GHS05

·Signal word *Danger*

·Hazard-determining components of labelling:

Sodium hydroxide Disodium carbonate, compound with hydrogen peroxide (2:3) Alkyl(C10-C13) benzenesulfonic acid, sodium salt

·Hazard statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

· **Precautionary statements**

P101 *If medical advice is needed, have product container or label at hand.*
P102 *Keep out of reach of children.*
P103 *Read label before use.*
P260 *Do not breathe dust.*
P280 *Wear protective gloves/protective clothing/eye protection/face protection.*
P301+P330+P331 *IF SWALLOWED: rinse mouth. Do NOT induce vomiting.*

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P303+P361+P353	*IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.*
P501	*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** *Not applicable.*
· **vPvB:** *Not applicable.*

SECTION 3: *Composition/information on ingredients*

3.2 Chemical characterisation: Mixtures
· ***Description:*** *Mixture of the substances listed below with nonhazardous additions.*

· ***Gefährliche Inhaltsstoffe:***

CAS: 1310-73-2 *EINECS: 215-185-5* *Index number: 011-002-00-6*	*Sodium hydroxide* *Met. Corr.1, H290; Skin Corr. 1A, H314*	*50 - 100%*
CAS: 497-19-8 *EINECS: 207-838-8* *Index number: 011-005-00-2*	*Sodium carbonate* *Eye Irrit. 2, H319*	*10-<25%*
CAS: 29329-71-3 *EINECS: 249-559-4*	*1-Hydroxyethanediphosphonic acid, sodium salt* *Acute Tox. 4, H302; Eye Irrit. 2, H319*	*2,5-<10%*
CAS: 15630-89-4 *EINECS: 239-707-6*	*Disodium carbonate, compound with hydrogen peroxide (2:3)* *Ox. Sol. 2, H272; Eye Dam. 1, H318; Acute Tox. 4, H302*	*2,5-<10%*
CAS: 68411-30-3 *EINECS: 270-115-0*	*Alkyl(C10-C13)benzenesulfonic acid, sodium salt* *Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2,H315*	*≤ 2,5%*

· ***Additional information: For the wording of the listed hazard phrases refer to section 16.***

· ***Ingredients according to Regulation (EC) No 648/2004:***

phosphonates, oxygen-based bleaching agents, anionic surfactants	*< 5%*

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SECTION 4: *First aid measures*

4.1 Description of first aid measures
· General information:
Personal protection for the person providing first aid.
Immediately remove any clothing contaminated by the product.
· After inhalation:
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness bring patient into stable side position for transport.
· After skin contact:
Instantly rinse with water.
Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.
· After eye contact:
Rinse opened eye for several minutes under running water.
Remove contact lenses, if present and easy to do.
Use eye protection.
Call a doctor immediately.
· After swallowing:
Rinse out mouth and then drink plenty of water.
Do not induce vomiting - Danger of perforation!
Call a doctor immediately.
· 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 Use fire fighting measures that suit the environment.
· For safety reasons unsuitable extinguishing agents Water
· 5.2 Special hazards arising from the substance or mixture
Can be released in case of fire:
Oxides of phosphorus (PxOy)
Sulphur oxides (SOx)
Carbon monoxide (CO) and Carbon dioxide (CO_2)
Sodium oxide (Na_2O)
· 5.3 Advice for firefighters
· Protective equipment: *Wear self-contained breathing apparatus.*
· Additional information
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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SECTION 6: *Accidental release measures*

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Avoid causing dust.
Do not breathe dust.
Avoid contact with skin and eyes.
· **6.2 Environmental precautions: Do not allow to enter drainage system, surface or ground water.**
· **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Collect mechanically.
Send for recovery or disposal in suitable containers.
Dispose of the material collected according to 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 information on disposal.

SECTION 7: *Handling and storage*

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with skin and eyes.
Do not breathe dust.
When diluting, always stir the product into standing water.
· **Information about protection against explosions and fires: No special measures required.**
· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage**
· **Requirements to be met by storerooms and containers:**
Store in the original container.
Observe all local and national regulations for storage of water polluting products.
· **Information about storage in one common storage facility: Store away from foodstuffs.**
· **Further information about storage conditions:**
Store container in a well ventilated position.
Store in a locked cabinet and out of the reach of children.
Store in cool, dry conditions in well sealed containers.
Store and transport upright.
· **7.3 Specific end use(s)** *No further relevant information available.*

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SECTION 8: *Exposure controls/personal protection*

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

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:
1310-73-2 Sodium hydroxide (50-100%)
WEL (Great Britain) Short-term value: 2 mg/m³

· DNELs		
1310-73-2 Sodium hydroxide		
IInhalative	*DNEL long-term exposure - local effects*	*1 mg/m³ (general population)* *1 mg/m³ (worker)*
497-19-8 Sodium carbonate		
Inhalative	*DNEL long-term exposure - local effects*	*10 mg/m³ (general population)* *10 mg/m³ (worker)*
68411-30-3 Alkyl(C10-C13)benzenesulfonic acid, sodium salt		
Oral *DNEL*	*DNEL long-term exposure - systemic effects* *long-term exposure - systemic effects*	*0.85 mg/kg bw/d (general population)* *85 mg/kg bw/d (general population)* *170 mg/kg bw/d (worker)*
Inhalative	*DNEL long-term exposure - systemic effects*	*3 mg/m³ (general population)* *12 mg/m³ (worker)*

· 8.2 Exposure controls

· Personal protective equipment

· General protective and hygienic measures

Keep away from foodstuffs, beverages and food.
Instantly remove any contaminated garments.
Wash hands during breaks and at the end of the work.
Use skin protection cream for preventive skin protection.
Do not breathe dust.
Avoid contact with the eyes and skin.
Do not eat, drink or smoke while working.

· Breathing equipment:

Use breathing protection in case of dust formation.
If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.

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Protection of hands:
Protective gloves
To avoid skin problems reduce the wearing of gloves to the required minimum.
Check the permeability prior to each renewed use of the glove.
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 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:** *Safety glasses with side-shields (frame goggles) (e.g. EN 166)*
· **Body protection:**
Protective work clothing
Body protection must be chosen depending on activity and possible exposure.

SECTION 9: *Physical and chemical properties*

· 9.1 Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	*Tablets*
Colour:	*white*
· Smell:	*characteristic*
· Odour threshold:	*not determined*
pH-value (100 g/l) at 20 °C:	*13*
· Change in condition	
Melting point/freezing point:	*not determined*
Initial boiling point and boiling range:	*not determined*
· Flash point:	*not applicable*
· Inflammability (solid, gaseous)	*Not determined.*
· Decomposition temperature:	*Not determined.*
Self-inflammability:	*Product is not selfigniting.*
· Explosive properties:	*Product is not explosive.*
Critical values for explosion:	
Lower:	*Not determined.*
Upper:	*Not determined.*
· Oxidising properties	*not classified as oxidising*
· Vapor pressure:	*Not applicable.*
Density:	*not determined*
· Relative density	*Not determined.*
· Vapour density (AIR = 1):	*Not applicable.*
· Evaporation rate	*Not applicable.*

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Solubility in / Miscibility with Water:	*soluble*
· Partition coefficient: n-octanol/water:	*Not determined.*
Viscosity:	
dynamic:	*Not applicable.*
kinematic:	*Not applicable.*
· 9.2 Other information	*No further relevant information available.*

SECTION 10: *Stability and reactivity*

10.1 Reactivity *see 10.3*
· 10.2 Chemical stability
· Thermal decomposition / conditions to be avoided: *No decomposition if used according to specifications.*
· 10.3 Possibility of hazardous reactions *Heating occurs when water is added*
10.4 Conditions to avoid *No further relevant information available.*
· 10.5 Incompatible materials:
Strong oxidizing agents
Strong acids
· 10.6 Hazardous decomposition products:
Phosphorus oxides (e.g. P_2O_5)
Sulphur oxides (SOx)
Carbon monoxide (CO) and Carbon dioxide (CO_2)
Sodium oxide (Na_2O)

SECTION 11: *Toxicological information*

· 11.1 Information on toxicological effects
· Acute toxicity *Based on available data, the classification criteria are not met.*

· LD/LC50 values that are relevant for classification:

1310-73-2 Sodium hydroxide		
Oral	*LD50*	*2000 mg/kg (rat)*
497-19-8 Sodium carbonate		
Oral	*LD50*	*4090 mg/kg (rat)*
Dermal	*LD50*	*2000 mg/kg (rabbit)*
Inhalative	*LC50/2h*	*2300 mg/m³ (rat, male)*
29329-71-3 1-Hydroxyethanediphosphonic acid, sodium salt		
Oral	*LD50*	*940 mg/kg (rat)*
15630-89-4 Dinatriumcarbonat, Verbindung mit Hydrogen-peroxid (2:3)		
Oral	*LD50*	*1034 mg/kg (rat)*
68411-30-3 Alkyl(C10-C13)benzenesulfonic acid, sodium salt		
Oral	*LD50*	*200 - 2000 mg/kg (rat)*

Primary irritant effect:
· Skin corrosion/irritation
Causes severe skin burns and eye damage.
· Serious eye damage/irritation
Causes serious eye damage.
Prop 65 Warning: Cancer and Reproductive Harm – more information on www.p65warnings.ca.gov

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Respiratory or skin sensitisation *Based on available data, the classification criteria are not met.*
· **Additional toxicological information:**
The product shows the following dangers according to the calculation method of Regulation (EC) No. 1272/2008 (CLP/GHS):
Skin corr. 1A
Eye Dam. 1
· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
According to present knowledge no CMR-effects known.
· **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** *Based on available data, the classification criteria are not met.*

SECTION 12: *Ecological information*

· ***12.1 Toxizität***

· ***Aquatic toxicity:***	
1310-73-2 Sodium hydroxide	
LC50/96 h	*99 mg/l (bluegill (lepomis macrochirus))*
	45.4 mg/l (rainbow trout (oncorhynchus mykiss))
LC50/48 h	*133 - 189 mg/l (leuciscus idus)*
497-19-8 Sodium carbonate	
LC50/96 h	*740 mg/l (gambusia affinis)*
	300 mg/l (bluegill (lepomis macrochirus))
EC50/48 h	*256 mg/l (water flea (daphnia magna))*
29329-71-3 1-Hydroxyethanediphosphonic acid, sodium salt	
LC50/96 h	*> 250 mg/l (salmo gairdneri)*
EC50/48 h	*> 500 mg/l (water flea (daphnia magna))*
15630-89-4 Disodium carbonate, compound with hydrogen peroxide (2:3)	
LC50	*70.7 mg/l (fathead minnow (pimephales promelas))*
EC50	*4.9 mg/l (Daphnia pulex)*
NOEC	*2.0 mg/l (Daphnia pulex) (NOEC/48 h)*
NOEC/96 h	*7.4 mg/l (fathead minnow (pimephales promelas))*
68411-30-3 Alkyl(C10-C13)benzenesulfonic acid, sodium salt	
LC50/96 h	*1 - 10 mg/l (carp (cyprinus carpio))*
EC50/48 h	*1 - 10 mg/l (water flea (daphnia magna))*
EC50/72 h	*10 - 100 mg/l (algae (Scenedesmus subspicatus))*

12.2 Persistence and degradability *No further relevant information available.*
· **12.3 Bioaccumulative potential** *No further relevant information available.*
· **12.4 Mobility in soil** *No further relevant information available.*
· **Additional ecological information:**
· **General notes:**
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Water hazard class 2 (Self-assessment): hazardous for water
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** *Not applicable.*
· **vPvB**: *Not applicable.*
· **12.6 Other adverse effects** *No further relevant information available.*

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SECTION 13: *Disposal considerations*

13.1 Waste treatment methods
· Recommendation
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.
· European waste catalogue:
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
· Uncleaned packagings:
· Recommendation:
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

SECTION 14: *Transport information*

14.1 UN-Number	
· ADR, IMDG, IATA	*UN1823*
14.2 UN proper shipping name	
· ADR	*UN1823 SODIUM HYDROXIDE, SOLID MIXTURE*
· IMDG, IATA	*SODIUM HYDROXIDE, SOLID MIXTURE*
· 14.3 Transport hazard class(es)· ADR	
	
· Class	*8 Corrosive substances*
· Label	*8*
· IMDG, IATA	
	
· Class	*8 (C6) Corrosive substances*
· Label	*8*
· 14.4 Packing group	
· ADR, IMDG, IATA	*II*
14.5 Environmental hazards:	
· Marine pollutant:	*NO*
14.6 Special precautions for user Warning:	*Corrosive substances.*

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Kemler Number:	***80***
· EMS Number:	***F-A,S-B***
· Segregation groups	***Alkalis***
· Stowage Category	***A***
· Segregation Code SG35 Stow „separated from“ SGG1-acids	
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	*Not applicable.*
· Transport/Additional information:	
· ADR	
· 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 1823 SODIUM HYDROXIDE, SOLID MIXTURE, 8, II*

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.*
· National regulations
· Information about limitation of use: E*mployment restrictions concerning young persons must be observed.*
· Decree to be applied in case of technical fault: *Directive 2012/18/EU does not apply.*
· Water hazard class: *Water hazard class 2 (Self-assessment): hazardous for water*
· Other regulations, limitations and prohibitive regulations
Observe restrictions on the marketing and use according to Annex XVII of Regulation (EC) No 1907/2006.
· 15.2 Chemical safety assessment: *A Chemical Safety Assessment has not been carried out.*

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SECTION 16: *Other information*

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

The(se) H-phrase(s) are those of the ingredient(s) and do(es) not necessarily represent the classification of the product.

H272 May intensify fire; oxidiser.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

· **Department issuing SDS:**

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· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Ox. Sol. 2: Oxidizing solids – Category 2
Met. Corr.1: Corrosive to metals – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2