

Printing date 03/30/2023 Reviewed on 03/30/2023

#### 1 Identification

- \* Product identifier
- \*Trade name: Flexoclean FC3000
- \* Article number: 2205
- \* Application of the substance / the mixture Cleaning agent/ Cleaner
- \* Details of the supplier of the safety data sheet
- \* Manufacturer/Supplier:

Clean Solutions Group

Bliek 8

4941 SG Raamsdonksveer - NL Tel.: +31 (0)162 - 57 6 222

Email: info@cleansolutionsgroup.eu Website: www.cleansolutionsgroup.eu

Distributor:

The Provident Group 2319 East Pensar Drive Appleton, WI 54911 Tel.: 1-920-733-5415

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Clean Solutions Group: +31 (0)162 - 57 62 29

ChemTel LLC

(800) 255-3924 ( North America) +1 (813) 248-0585 ( International)

National Capital Poison Center: 1-800-222-1222

These services are only available to health professionals

### 2 Hazard(s) identification

#### \* Classification of the substance or mixture

Corrosive to Metals 1 H290 May be corrosive to metals.

Skin Corrosion 1A H314 Causes severe skin burns and eye damage.

Eye Damage 1 H318 Causes serious eye damage.

- \* Label elements
- \* GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

\* Hazard pictograms



GHS05

# \* Signal word Danger

# \* Hazard-determining components of labeling:

POTASSIUM HYDROXIDE

2-aminoethanol

#### \* Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

#### \* Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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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/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.

P363 Wash contaminated clothing before reuse.

- \* Other hazards
- \* Results of PBT and vPvB assessment
- \* **PBT:** Not applicable.
- \* **vPvB**: Not applicable.

# 3 Composition/information on ingredients

- \* Chemical characterization: Mixtures
- \* **Description:** Mixture of the substances listed below with nonhazardous additions.

Description. Whittire of the substances listed below with hormazardous additions.			
* Dangerous	* Dangerous components:		
1310-58-3	POTASSIUM HYDROXIDE	10-25%	
	Skin Corrosion 1A, H314; 🗘 Acute Toxicity - Oral 4, H302		
141-43-5	2-aminoethanol	1-5%	
	Skin Corrosion 1A, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332; Specific Target Organ Toxicity - Single Exposure 3, H335		
164462-16-2	TRISODIUM DICARBOXYMETHYLALANINATE  Corrosive to Metals 1, H290	1-5%	
28348-53-0	SODIUM CUMENE SULPHONATE  © Eye Irritation 2A, H319	1-5%	

#### 4 First-aid measures

- \* Description of first aid measures
- \* General information: Immediately remove any clothing soiled by the product.
- \* After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

- \* After skin contact: Immediately rinse with water.
- \* After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- \* After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- \* Information for doctor:
- \* Most important symptoms and effects, both acute and delayed

No further relevant information available.

\* Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5 Fire-fighting measures

- \* Extinguishing media
- \* Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- \* Special hazards arising from the substance or mixture No further relevant information available.

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- \* Advice for firefighters
- \* Protective equipment: No special measures required.

### 6 Accidental release measures

#### \* Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

#### \* Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

## \* Methods and material for containment and cleaning up:

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

#### \* 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.

\* Protective Action Criteria for Chemicals

* PAC-1:		
1310-58-3	POTASSIUM HYDROXIDE	0.18 mg/m <sup>3</sup>
141-43-5	2-aminoethanol	6 ppm
111-76-2	butyl cellosolve	60 ppm
7758-29-4	pentasodium triphosphate	0.61 mg/m <sup>3</sup>
124-07-2	octanoic acid	30 mg/m <sup>3</sup>
* PAC-2:		
1310-58-3	POTASSIUM HYDROXIDE	2 mg/m <sup>3</sup>
141-43-5	2-aminoethanol	170 ppm
	butyl cellosolve	120 ppm
7758-29-4	pentasodium triphosphate	6.8 mg/m <sup>3</sup>
124-07-2	octanoic acid	330 mg/m <sup>3</sup>
* PAC-3:		
1310-58-3	POTASSIUM HYDROXIDE	54 mg/m <sup>3</sup>
141-43-5	2-aminoethanol	1,000 ppm
111-76-2	butyl cellosolve	700 ppm
7758-29-4	pentasodium triphosphate	620 mg/m <sup>3</sup>
124-07-2	octanoic acid	2,000 mg/m <sup>3</sup>

# 7 Handling and storage

- \* Handling:
- \* **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- \* Information about protection against explosions and fires: No special measures required.
- \* Conditions for safe storage, including any incompatibilities
- \* Storage:
- \* Requirements to be met by storerooms and receptacles: No special requirements.
- \* Information about storage in one common storage facility: Not required.

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- \* Further information about storage conditions: Keep receptacle tightly sealed.
- \* Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

- \* Additional information about design of technical systems: No further data; see item 7.
- \* Control parameters
- \* Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

#### 1310-58-3 POTASSIUM HYDROXIDE

REL Ceiling limit value: 2 mg/m<sup>3</sup> TLV Ceiling limit value: 2 mg/m<sup>3</sup>

#### 141-43-5 2-aminoethanol

PEL Long-term value: 6 mg/m³, 3 ppm REL Short-term value: 15 mg/m³, 6 ppm Long-term value: 8 mg/m³, 3 ppm

Short-term value: 6 ppm Long-term value: 3 ppm

- \* Additional information: The lists that were valid during the creation were used as basis.
- \* Exposure controls
- \* Personal protective equipment:
- \* General protective and hygienic measures:

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.

- \* Breathing equipment: Not necessary if room is well-ventilated.
- \* 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

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.

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Safety Data Sheet acc. to OSHA HCS

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\* Eye protection:





Tightly sealed goggles

9 Physical and chemical properties

\* Body protection:

\* Evaporation rate

Water:

\* Dynamic:

\* Kinematic:

\* Solubility in / Miscibility with

\* Partition coefficient (n-octanol/water): Not determined.



Protective work clothing (EN13034 – Type 6)

* Information on basic physical and * General Information * Appearance:	chemical properties
Form:	Fluid
Color:	
	Clear
*Odor:	Characteristic
* Odor threshold:	Not determined.
* pH-value at 20 °C (68 °F):	14
* Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
<u> </u>	
* Flash point:	Not applicable.
* Flammability (solid, gaseous):	Not applicable.
* Decomposition temperature:	Not determined.
* Auto igniting:	Product is not selfigniting.
* Danger of explosion:	Product does not present an explosion hazard.
* Lower:	Not determined.
* Upper:	Not determined.
	00 hD = (47.0 mm Hm)
* Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
* Density at 20 °C (68 °F):	1.16 g/cm <sup>3</sup> (9.68 lbs/gal)
* Relative density	Not determined.
* Vapor density	Not determined.
tupor acrisity	140t determined.

Not determined.

Fully miscible.

Not determined.

Not determined.

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\*Solvent content:
VOC 3.40 %

\*Other information No further relevant information available.

# 10 Stability and reactivity

- \* Reactivity No further relevant information available.
- \* Chemical stability
- \* Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- \* Possibility of hazardous reactions No dangerous reactions known.
- \* Conditions to avoid No further relevant information available.
- \* Incompatible materials: No further relevant information available.
- \* Hazardous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information

- \* Information on toxicological effects
- \* Acute toxicity:

* L D/L C50	values that are	rolovant for	classification:

1310-58-3		UM HYDROXIDE
Oral	LD50	273 mg/kg (rat)

Oral	LD50	2,050 mg/kg (rat)
Dermal	LD50	1,000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)

#### 164462-16-2 TRISODIUM DICARBOXYMETHYLALANINATE

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

#### 28348-53-0 SODIUM CUMENE SULPHONATE

Oral | LD50 | 7,000 mg/kg (rat)

- \* Primary irritant effect:
- \* on the skin:

Strong caustic effect on skin and mucous membranes.

Caustic effect on skin and mucous membranes.

- \* on the eye: Strong caustic effect.
- \* Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

#### \* Carcinogenic categories

#### \* IARC (International Agency for Research on Cancer)

111-76-2 butyl cellosolve

|3

# \* NTP (National Toxicology Program)

None of the ingredients is listed.

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### \* OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

# 12 Ecological information

- \* Toxicity
- \* Aquatic toxicity: No further relevant information available.
- \* Persistence and degradability No further relevant information available.
- \* Behavior in environmental systems:
- \* Bioaccumulative potential No further relevant information available.
- \* Mobility in soil No further relevant information available.
- \* Additional ecological information:
- \* General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- \* Results of PBT and vPvB assessment
- \* **PBT:** Not applicable.
- \* vPvB: Not applicable.
- \* Other adverse effects No further relevant information available.

# 13 Disposal considerations

- \* Waste treatment methods
- \* Recommendation:

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

- \* Uncleaned packagings:
- \* **Recommendation:** Disposal must be made according to official regulations.
- \* Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information	
* UN-Number * DOT, ADR, IMDG, IATA	UN1719
* UN proper shipping name	
*DOT	CAUSTIC ALKALI LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE)
* ADR	1719 CAUSTÍC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)
* IMDG, IATA	CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)
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\* Transport hazard class(es)

\* DOT



\* Class 8 Corrosive substances

\* Label 8

\* ADR, IMDG, IATA



\* Class 8 Corrosive substances

\* Label

\* Packing group

\* DOT, ADR, IMDG, IATA

\* Environmental hazards: Not applicable.

\* Special precautions for user Warning: Corrosive substances

\* Hazard identification number (Kemler code): 80

\* EMS Number: F-A,S-B

\* Segregation groups (SGG18) Alkalis

\* Stowage Category A

\* Segregation Code SG22 Stow "away from" ammonium salts

SG35 Stow "separated from" SGG1-acids

\* Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

\* Transport/Additional information:

\* ADR

\* Beperkte hoeveelheden (LQ) 1L

\* UN "Model Regulation": UN 1719 CAUSTIC ALKALI LIQUID, N.O.S.

(POTASSIUM HYDROXIDE), 8, II

#### 15 Regulatory information

\* Safety, health and environmental regulations/legislation specific for the substance or mixture

\* Sara

\* Section 355 (extremely hazardous substances):

None of the ingredient is listed.

\* Section 313 (Specific toxic chemical listings):

111-76-2 butyl cellosolve

7758-29-4 pentasodium triphosphate

\*TSCA (Toxic Substances Control Act):

7732-18-5 water, distilled, conductivity or of similar purity
1310-58-3 POTASSIUM HYDROXIDE ACTIVE

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	2-aminoethanol	ACTIV
	TRISODIUM DICARBOXYMETHYLALANINATE	ACTIV
	SODIUM CUMENE SULPHONATE	ACTIV
	sodium gluconate	ACTIV
	butyl cellosolve	ACTIV
	pentasodium triphosphate	ACTIV
-	octanoic acid	ACTIV
2235-43-0	pentasodium hydrogen C,C',C"-nitrilotris(methylphosphonate)	ACTIV
* Hazardous A	Air Pollutants	
	ngredients is listed.	
* Proposition		
	nown to cause cancer:	
None of the in	ngredients is listed.	
	nown to cause reproductive toxicity for females:	
None of the in	ngredients is listed.	
* Chemicals k	nown to cause reproductive toxicity for males:	
None of the in	ngredients is listed.	
* Chemicals k	nown to cause developmental toxicity:	
None of the in	ngredients is listed.	
•	ity categories	
	nmental Protection Agency)	
111-76-2 but	yl cellosolve	N
*TLV (Thresh	old Limit Value)	
111-76-2 butyl cellosolve		
* MAK (Germa	an Maximum Workplace Concentration)	
111-76-2 butyl cellosolve		
* NIOSH-Ca (N	National Institute for Occupational Safety and Health)	
None of the in	ngredients is listed.	
* National reg	ulations	

#### \* National regulations:

\* Technical instructions (air):

Class	Share in %
NK	3.4

<sup>\*</sup> Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

# 16 Other information

The information given in this Material Safety Sheet refer to the product described in this sheet, and is provided in the supposition that the product will be used in a proper way and for the purpose indicated by the manufacturer.

It is the responsibility of the user to take advised precautions, and also to make sure that this information is complete and sufficient for the use of the product. It is recommended to pass this information, if necessary, in an adapted form, to personnel and other interested parties.

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<sup>\*</sup> Chemical safety assessment: A Chemical Safety Assessment has not been carried out.



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Manufacturer does not carry any responsibility for use of the product, in any way, which is not in accordance with the instructions and the purposes indicated by the manufacturer.

- \* Classification according to Regulation (EC) No 1272/2008
- Based on test data and own calculation method
- \* Contact:
- \* NFPA-ratings (scale 0 4)



Health = 3Fire = 0Reactivity = 0

\* HMIS-ratings (scale 0 - 4)



Health = \*3 Fire = 0Reactivity = 0

- \* Date of preparation / last revision 03/30/2023
- \* Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation 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) VOC: Volatile Organic Compounds (USA, EU)

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 NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Corrosive to Metals 1: Corrosive to metals - Category 1 Acute Toxicity - Oral 4: Acute toxicity - Category 4

Skin Corrosion 1A: Skin corrosion/irritation – Category 1A

Eye Damage 1: Serious eye damage/eye irritation - Category 1

Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3

- \* Sources http://echa.europa.eu
- \*\* Data compared to the previous version altered. \*