

1 Identification

*** Product identifier**

*** Trade name: Flexoclean Anilox Power Boost**

*** Article number: 2442**

*** 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
Email: info@providentgrp.com

*** Emergency telephone number:**

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

Eye Irritation 2A H319 Causes serious eye irritation.

*** Label elements**

*** GHS label elements**

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

*** Hazard pictograms**



GHS07

*** Signal word** Warning

*** Hazard statements**

H319 Causes serious eye irritation.

*** Precautionary statements**

P264 Wash thoroughly after handling.

P280 Wear eye protection / face protection.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

*** Other hazards**

*** Results of PBT and vPvB assessment**

*** PBT:** Not applicable.

*** vPvB:** Not applicable.

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3 Composition/information on ingredients

* **Chemical characterization: Mixtures**

* **Description:** Mixture of the substances listed below with nonhazardous additions.

* **Dangerous components:**

123-42-2	4-hydroxy-4-methylpentan-2-one ⚠ Eye Irritation 2A, H319	10-25%
112-34-5	2-(2-butoxyethoxy)ethanol ⚠ Eye Irritation 2A, H319	5-10%
3470-98-2	n-Butylpyrrolidone ⚠ Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Eye Irritation 2A, H319	1-5%
111109-77-4	Dipropylenglycoldimethylether Flammable Liquids 4, H227	1-5%
160875-66-1	C10 Alcoholethoxylaar ⚠ Eye Damage 1, H318; ⚠ Acute Toxicity - Oral 4, H302	1-5%

4 First-aid measures

* **Description of first aid measures**

* **After inhalation:** 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. If symptoms persist, consult a doctor.

* **After swallowing:** If symptoms persist consult 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:**

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

* **Special hazards arising from the substance or mixture** No further relevant information available.

* **Advice for firefighters**

* **Protective equipment:** No special measures required.

6 Accidental release measures

* **Personal precautions, protective equipment and emergency procedures** Not required.

* **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).

Ensure adequate ventilation.

* **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

*** Protective Action Criteria for Chemicals**
*** PAC-1:**

141-97-9	ethyl acetoacetate	12 mg/m ³
123-42-2	4-hydroxy-4-methylpentan-2-one	150 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	30 ppm

*** PAC-2:**

141-97-9	ethyl acetoacetate	130 mg/m ³
123-42-2	4-hydroxy-4-methylpentan-2-one	350 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm

*** PAC-3:**

141-97-9	ethyl acetoacetate	790 mg/m ³
123-42-2	4-hydroxy-4-methylpentan-2-one	2100* ppm
112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm

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.

*** 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.

123-42-2 4-hydroxy-4-methylpentan-2-one

 PEL Long-term value: 240 mg/m³, 50 ppm

 REL Long-term value: 240 mg/m³, 50 ppm

TLV Long-term value: 50 ppm

112-34-5 2-(2-butoxyethoxy)ethanol

TLV Long-term value: 10* ppm

*Inhalable fraction and vapor

*** 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.

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Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

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**

Material : butyl rubber + nitrile

Thickness of the glove : ≥ 0.7 mm

Penetration time : ≥ 480 min

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:** Use protective suit.

9 Physical and chemical properties

* **Information on basic physical and chemical properties**

* **General Information**

* **Appearance:**

Form: Fluid

Color: Clear

* **Odor:** Characteristic

* **Odor threshold:** Not determined.

* **pH-value at 20 °C (68 °F):** 6

* **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 100 °C (212 °F)

* **Flash point:** 70 °C (158 °F)

* **Flammability (solid, gaseous):** Not applicable.

* **Ignition temperature:** 225 °C (437 °F)

* **Decomposition temperature:** Not determined.

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* Auto igniting:	Product is not selfigniting.
* Danger of explosion:	Product does not present an explosion hazard.
* Lower:	1 Vol %
* Upper:	54 Vol %
* Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
* Density at 20 °C (68 °F):	1 g/cm ³ (8.35 lbs/gal)
* Relative density	Not determined.
* Vapor density	Not determined.
* Evaporation rate	Not determined.
* Solubility in / Miscibility with Water:	Fully miscible.
* Partition coefficient (n-octanol/water):	Not determined.
* Dynamic:	Not determined.
* Kinematic:	Not determined.
* Solvent content: VOC	46.50 %
* 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:**
- * **LD/LC50 values that are relevant for classification:**

123-42-2 4-hydroxy-4-methylpentan-2-one

Oral	LD50	4,000 mg/kg (rat)
Dermal	LD50	13,630 mg/kg (rab)

112-34-5 2-(2-butoxyethoxy)ethanol

Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	4,000 mg/kg (rabbit)

3470-98-2 n-Butylpyrrolidone

Oral	LD50	300-2,000 mg/kg (rat)
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160875-66-1 C10 Alcoholethoxylaar

Oral	LD50	1,200 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

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*** Primary irritant effect:**

*** on the skin:** Irritant to skin and mucous membranes.

*** on the eye:**

Strong irritant with the danger of severe eye injury.
Irritating effect.

*** Additional toxicological information:**

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

*** Carcinogenic categories**

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

None of the ingredients is listed.

*** NTP (National Toxicology Program)**

None of the ingredients is listed.

*** 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.

*** 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**

Void

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* UN proper shipping name	
* DOT, ADR, IMDG, IATA	Void
* Transport hazard class(es)	
* DOT, ADR, ADN, IMDG, IATA	
* Class	Void
* Packing group	
* DOT, ADR, IMDG, IATA	Void
* Environmental hazards:	Not applicable.
* Special precautions for user	Not applicable.
* Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
* UN "Model Regulation":	Void

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):**

112-34-5 | 2-(2-butoxyethoxy)ethanol

* **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

* **Hazardous Air Pollutants**

None of the ingredients is listed.

* **Proposition 65**

* **Chemicals known to cause cancer:**

None of the ingredients is listed.

* **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

* **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

* **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

* **Cancerogenity categories**

* **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

* **TLV (Threshold Limit Value)**

None of the ingredients is listed.

* **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

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*** NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

*** National regulations:**
*** Technical instructions (air):**

Class	Share in %
NK	46.5

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

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

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.

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)**

*** HMIS-ratings (scale 0 - 4)**

*** 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

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REL: Recommended Exposure Limit
Flammable Liquids 4: Flammable liquids – Category 4
Acute Toxicity - Oral 4: Acute toxicity – Category 4
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

* **Sources** <http://echa.europa.eu>

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

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