

# Safety Data Sheet

## NANO ALKALINE CLEANER



Safety Data Sheet dated 3/29/2019, version 1  
This version cancels and substitutes any previous version

### 1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: NANO ALKALINE CLEANER

Recommended use of the chemical and restrictions on use

Recommended use:

Condensers cleaner

Restrictions on use:

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Responsible party:

ERRECOM USA LLC

350, Lincoln Rd.

33139 Miami Beach, FL.

+1 786 7967862

Manufacturer:

ERRECOM SRL

Via Industriale, 14

25030 Corzano (BS) Italy

Competent person responsible for the safety data sheet:

lab@errecom.it

Emergency phone number

+1 786 7967862 (Mo-Fr, 02h30-06h00, 07h30-12h00 UTC -05:00)

### 2. HAZARD(S) IDENTIFICATION

Classification of the chemical



Warning, Skin Irrit. 2, Causes skin irritation.



Danger, Eye Dam. 1, Causes serious eye damage.

Label elements

Hazard pictograms:



Danger

Hazard statements:

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements:

P264 Wash the exposed body parts thoroughly after handling.

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

P302+P352 IF ON SKIN: Wash with plenty of water.

# Safety Data Sheet

## NANO ALKALINE CLEANER



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 doctor.

P321 Specific treatment (see First Aid information on Section 4 of the SDS and/or on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

Additional classification information

NFPA rating:



HMIS rating:

HEALTH	/	3
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		D

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

Qty	Name	Ident. Number	Classification
>= 2.5% - < 5%	ethoxylated fatty alcohols	CAS: 24938-91-8	A.1/4/Oral Acute Tox. 4 H302 A.3/1 Eye Dam. 1 H318
>= 2.5% - < 5%	2-(2-butoxyethoxy)ethanol	Index number: 603-096-00-8 CAS: 112-34-5 EC: 203-961-6	A.3/2B Eye Irrit. 2B H320
>= 0.5% - < 1%	sodium hydroxide	Index number: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5	A.2/1A Skin Corr. 1A H314

### 4. FIRST-AID MEASURES

NANO ALKALINE CLEAN/1

# Safety Data Sheet

## NANO ALKALINE CLEANER



### Description of necessary measures

#### In case of skin contact:

Immediately take off all contaminated clothing.  
OBTAIN IMMEDIATE MEDICAL ATTENTION.  
After contact with skin, wash immediately with plenty of water.  
Wash contaminated clothing before using them.

#### In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.  
Protect uninjured eye.

#### In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

#### In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

#### Most important symptoms/effects, acute and delayed

No information available.

#### Indication of immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### Treatment:

Treat symptomatically.

---

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media:

Water.  
Carbon dioxide (CO<sub>2</sub>).

### Unsuitable extinguishing media:

None in particular.

### Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.  
Burning produces heavy smoke.

### Hazardous combustion products:

No information available.

### Explosive properties:

N.A.

### Oxidizing properties:

N.A.

### Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Move undamaged containers from immediate hazard area if it can be done safely.

---

## 6. ACCIDENTAL RELEASE MEASURES

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

Wear personal protection equipment.  
Remove persons to safety.  
See protective measures under point 7 and 8.

### Methods and materials for containment and cleaning up

Wash with plenty of water.

---

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Don't use empty container before they have been cleaned.

# Safety Data Sheet

## NANO ALKALINE CLEANER



Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.  
Conditions for safe storage, including any incompatibilities  
Store in a cool and well ventilated place.  
Store away from direct sunlight.  
Keep away from food, drink and feed.  
Incompatible materials:  
Store containers away from any incompatible materials, checking section 10.  
Instructions as regards storage premises:  
Adequately ventilated premises.

---

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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

EU - TWA(8h): 67.5 mg/m<sup>3</sup>, 10 ppm - STEL: 101.2 mg/m<sup>3</sup>, 15 ppm

ACGIH - TWA(8h): 10 ppm - Notes: (IFV) - Hematologic, liver and kidney eff

sodium hydroxide - CAS: 1310-73-2

ACGIH - STEL: Ceiling 2 mg/m<sup>3</sup> - Notes: URT, eye, and skin irr

DNEL Exposure Limit Values

sodium hydroxide - CAS: 1310-73-2

Worker Professional: 1 mg/m<sup>3</sup> - Consumer: 1 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Long Term (repeated)

PNEC Exposure Limit Values

N.A.

Appropriate engineering controls:

None

Individual protection measures

Eye protection:

Use close safety visors, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

work gloves resistant to penetration (ref. standard EN 374).

Suitable material:

NR (natural rubber, natural latex).

NBR (nitrile rubber).

Material thickness: 0.4 mm minimum.

Break through time : > 480 min

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

---

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	liquid green
Odour:	characteristic
Odour threshold:	N.A.
pH:	N.A.

# Safety Data Sheet

## NANO ALKALINE CLEANER



Melting point / freezing point:	N.A.	
Initial boiling point and boiling range:		N.A.
Solid/gas flammability:	N.A.	
Upper/lower flammability or explosive limits:	N.A.	
Vapour density:	N.A.	
Flash point:	N.A.	
Evaporation rate:	N.A.	
Vapour pressure:	N.A.	
Relative density:	1.02 g/mL (+20°C/+68°F)	
Solubility in water:	total	
Solubility in oil:	N.A.	
Partition coefficient (n-octanol/water):		N.A.
Auto-ignition temperature:	N.A.	
Decomposition temperature:	N.A.	
Viscosity:	N.A.	
Miscibility:	N.A.	
Fat Solubility:	N.A.	
Conductivity:	N.A.	
Substance Groups relevant properties		N.A.

---

### 10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	None
Conditions to avoid	Stable under normal conditions.
Incompatible materials	Strong acids.
Hazardous decomposition products	No data available

---

### 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Toxicological information of the product:	NANO ALKALINE CLEANER
a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin Irrit. 2 H315
c) serious eye damage/irritation	The product is classified: Eye Dam. 1 H318
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met

# Safety Data Sheet

## NANO ALKALINE CLEANER



- g) reproductive toxicity  
Not classified  
Based on available data, the classification criteria are not met
  - h) STOT-single exposure  
Not classified  
Based on available data, the classification criteria are not met
  - i) STOT-repeated exposure  
Not classified  
Based on available data, the classification criteria are not met
  - j) aspiration hazard  
Not classified  
Based on available data, the classification criteria are not met
- Toxicological information of the main substances found in the product:
- sodium hydroxide - CAS: 1310-73-2
  - b) skin corrosion/irritation:  
Test: Skin Corrosive - Route: Skin - Species: Rabbit Positive
  - c) serious eye damage/irritation:  
Test: Eye Irritant - Species: Rabbit Positive - Source: Guidelines 405 Test OECD
  - e) germ cell mutagenicity:  
Test: Ames test - Species: Salmonella Typhimurium Negative
- 2-(2-butoxyethoxy)ethanol - CAS: 112-34-5  
LD50 (RAT) ORAL: 6560 MG/KG  
LD50 (RABBIT) SKIN: 4120 MG/KG

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

None.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

---

## 12. ECOLOGICAL INFORMATION

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

NANO ALKALINE CLEANER

Not classified for environmental hazards

Based on available data, the classification criteria are not met

sodium hydroxide - CAS: 1310-73-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 189 mg/l - Duration h: 48

Endpoint: EC0 - Species: Daphnia = 40.4 mg/l - Duration h: 48 - Notes: Species:

Ceriodaphnia dubia

Endpoint: LC50 - Species: Fish 125 mg/l - Duration h: 96 - Notes: Species: Gambusia affinis

Endpoint: LC50 - Species: Fish 45.4 mg/l - Duration h: 96 - Notes: Species

Oncorhynchus mykiss

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

# Safety Data Sheet

## NANO ALKALINE CLEANER



N.A.  
Other adverse effects  
None

---

### 13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods  
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

---

### 14. TRANSPORT INFORMATION

UN number  
DOT number: N.A.  
Not classified as dangerous in the meaning of transport regulations.  
UN proper shipping name  
N.A.  
Transport hazard class(es)  
N.A.  
Packing group  
N.A.  
Environmental hazards  
ADR-Environmental Pollutant: No  
IMDG-Marine pollutant: No  
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)  
N.A.  
Special precautions  
N.A.

---

### 15. REGULATORY INFORMATION

USA - Federal regulations  
TSCA - Toxic Substances Control Act  
TSCA inventory: all the components are listed on the TSCA inventory.  
TSCA listed substances:  
ethoxylated fatty alcohols is listed in TSCA Section 8b  
2-(2-butoxyethoxy)ethanol is listed in TSCA Section 8b  
sodium hydroxide is listed in TSCA Section 8b.  
SARA - Superfund Amendments and Reauthorization Act  
Section 302 – Extremely Hazardous Substances: no substances listed.  
Section 304 – Hazardous substances: sodium hydroxide.  
Section 313 – Toxic chemical list: no substances listed.  
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act  
Substance(s) listed under CERCLA: sodium hydroxide - Reportable quantity: 1000 pounds.  
Reportable quantity for mixture: 100010.001 pounds.  
CAA - Clean Air Act  
CAA listed substances:  
2-(2-butoxyethoxy)ethanol is listed in CAA Section 112(b) - HON, Section 112(b) - HAP, Section 111.  
CWA - Clean Water Act  
CWA listed substances:  
sodium hydroxide is listed in CWA Section 311.

# Safety Data Sheet

## NANO ALKALINE CLEANER



USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

None.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

sodium hydroxide.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

sodium hydroxide.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

sodium hydroxide.

---

### 16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H320 Causes eye irritation.

H314 Causes severe skin burns and eye damage.

Safety Data Sheet dated 3/29/2019, version 1

Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program

# Safety Data Sheet

## NANO ALKALINE CLEANER



OSHA: Occupational Safety and Health Administration  
PNEC: Predicted No Effect Concentration.  
RID: Regulation Concerning the International Transport of Dangerous Goods  
by Rail.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWA: Time-weighted average