The Essentially Natural Domain (Pty) Ltd | Reg. No. 2014/170069/07
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# SAFETY DATA SHEET

## 1 - IDENTIFICATION OF THE SUBSTANCE

### 1.1 Identification of the substance:

Product Name: AC818
Chemical Name: C8-16 Alkyl polyglucoside
INCI Name: Coco-Glucoside
UFI: AQ9V-DEJY-SSKT-XTCN
Additional identification: Nanoform is NOT covered by this SDS.

**1.2 Use of the substance:** Cleaning agent. Cosmetics, personal care products

## 2 - HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification:

The mixture is classified as following according to REGULATION (EC) No 1272/2008:

| REGULATION (EC) No 1272/2008 | |
|---|---|
| Hazard classes/Hazard categories | Hazard statement |
| Skin Irrit.2 | H315 |
| Eye Dam.1 | H318 |

For full text of H-phrases: see section 2.2.

### 2.2 Label elements

**Hazard Picograms:**

**Signal word(s):** Danger

**Hazard statements:** H315: Causes skin irritation.
H318: Causes serious eye damage.

**Safety Precautions:** P264: Wash hand thoroughly after handling.
P280: Wear protective gloves, protective clothing, eye protection, face protection.
P302+P352: Gently wash with plenty of soap and water.

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P332+P313: If skin irritation occurs, get medical advice/ attention.
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 or doctor/physician.
P362+P364: Take off contaminated clothing and wash it before reuse.

## 2.3 Other hazards

The mixture does not contain PBT/vPvB substance.
The mixture does not contain endocrine disruptor.

## 3 - COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture

**Ingredient(s):**

| Chemical Name | Content | CAS# | EC# | REACH Registration No. | Classification | Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE) |
|---|---|---|---|---|---|---|
| C8-10 Alkyl Polyglucoside | 10-30% | 68515-73-1 | 500-220-1 | 01-2119488530-36-xxxx | H318 | N/A |
| C10-16 Alkyl Polyglucoside | 20-40% | 110615-47-9 | 600-975-8 | 01-2119489418-23-xxxx | H315 H318 | Eye Damage 1; >12%≤30% Eye Damage 1; >30% Skin Irrit. 2; >30% |
| Water | 48.0-50.0% | 7732-18- | 231-5791-2 | N/A | Not classified | N/A |

## 4.1 Description of first aid measures

In all cases of doubt, or when symptoms persist, seek medical attention.

### 4.1.1 In case of inhalation

Not relevant.

### 4.1.2 In case of skin contact

Rinse with running water.

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#### 4.1.3 In case of eyes contact
Rinse immediately with plenty of running water (for 10 minutes), seek medical advice from a specialist.

#### 4.1.4 In case of ingestion
Rinse the mouth. Drink 1-2 glasses of water, get medical aid.

### 4.2 Most important symptoms and effects, both acute and delayed
Causes skin irritation. Causes serious eye damage.

### 4.3 Indication of any immediate medical attention and special treatment needed
If skin irritation or rash occurs, get medical advice/attention.

## 5 - FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media
Suitable extinguishing media:
Water fog, foam, extinguishing powder, carbon dioxide.

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

### 5.3 Advice for firefighters
In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Wear chemical resistant oversuit. Cool containers / tanks with water spray.

## 6 - ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures
#### 6.1.1 For non-emergency personnel
Avoid contact with skin and eyes.

#### 6.1.2 For emergency responders
Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ventilate the area. Wear suitable protective clothing.

### 6.2 Environmental precautions
Do not empty into drains / surface water / ground water.

### 6.3 Methods and material for Containment and Cleaning up
Remove with liquid-absorbing material (sand, peat, sawdust).

### 6.4 Reference to other sections
Refer additionally to chapter 8 and 13.

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# 7 - HANDLING AND STORAGE

## 7.1 Precautions for safe handling

### 7.1.1 Protective measures:

Avoid open flames.

### 7.1.2 Advice on general occupational hygiene

Do not eat drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly sealed.

## 7.3 Specific end use(s)

Not applicable.

# 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

## 8.1 Control parameters:

### 8.1.1 Occupational exposure limits

Not available.

### 8.1.2 Additional exposure limits under the conditions of use

Not available.

### 8.1.3 DNEL/DMEL and PNEC-Values

Not available.

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure adequate ventilation. Apply technical measures to comply with the occupational exposure limits.

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

Eye/face protection:
Protective goggles.
Skin protection:
Hand protection: Heavy rubber gloves.
Body protection: Wear suitable protective clothing to prevent skin exposure.
Respiratory protection:
Wear suitable respiratory equipment.
Thermal hazards:
Wear suitable protective clothing to prevent heat.

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### 8.2.3 Environmental exposure controls

Avoid discharge into the environment.
According to local regulations, Federal and official regulations.

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Physical state: Odor: | Light yellow viscous liquid |
| Odor threshold: | Weak odor |
| pH (20% in 15% IPA): | Not available |
| Melting point/range (℃): | 11.5-12.5 |
| Boiling point/range (°C): | >300°C (CAS#68515-73-1) |
| | >300°C (CAS#68515-73-1) |
| | >301°C (CAS#110615-47-9) |
| Flash point (°C): | >100℃ |
| Evaporation rate: | Not available |
| Flammability limit - lower (%): | Not available |
| Flammability (solid, gas): | Not available |
| Ignition temperature (℃): | Not available |
| Upper/lower explosive limits: | Not available |
| Vapor pressure (20℃): | <0.001Pa (20°C, CAS#68515-73-1) |
| | ≤0.008Pa (20°C, CAS#110615-47-9) |
| Vapor density: | Not available |
| Relative Density: | 1080 kg/m$^3$ |
| Bulk density (kg/m$^3$): | Not available |
| Water solubility (g/l): | Soluble in water |
| n-Octanol/Water (log Po/w): | ≤-0.07 (20°C, CAS#68515-73-1) |
| | ≤-0.07 (20°C, CAS#110615-47-9) |
| Auto-ignition temperature: | Not available |

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| | |
|---|---|
| Decomposition temperature: | Not available |
| Viscosity (20 °C): | 2500-6000mPa.s |
| Explosive properties: | Not explosive |
| Oxidising properties: | Not available |

### 9.2 Other Information

| | |
|---|---|
| Fat Solubility (Solvent-oil to be specified): | Not available |
| Surface tension: | 29.5mN/m (Conc.:1g/L) (23 °C) |
| Dissociation constant in water (pKa): | Not available |
| Oxidation-reduction Potential: | Not available |

## 10 - STABILITY AND REACTIVITY

### 10.1 Reactivity
The substance is stable under normal storage and handling conditions.

### 10.2 Chemical stability
Product is stable under normal storage conditions.

### 10.3 Possibility of hazardous reactions
No dangerous reactions are known.

### 10.4 Conditions to avoid
Incompatible materials.

### 10.5 Incompatible materials
Strong oxidizing agents.

### 10.6 Hazardous decomposition products
In case of fire may be liberated: carbon monoxide and carbon dioxide.

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## 11 - TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity:

| | |
|---|---|
| ATEmix (oral): | Not available |
| ATEmix (inhalation): | Not available |
| ATEmix (Dermal): | Not available |
| CAS: 68515-73-1: | |
| LD50 (Oral, Rat): | >2000mg/kg bw |
| LC50 (Inhalation, Rat): | Not available |
| LD50 (Dermal, Rabbit): | >2000mg/kg bw |
| CAS: 110615-47-9: | |
| LD50 (Oral, Rat): | >5000mg/kg bw |
| LC50 (Inhalation, Rat): | Not available |
| LD50 (Dermal, Rabbit): | >2000mg/kg bw |
| Skin corrosion/Irritation: | Causes skin irritation |
| Serious eye damage/irritation: | Causes serious eye damage. |
| Respiratory or skin sensitization: | Not classified |
| Germ cell mutagenicity: | Not classified |
| Carcinogenicity: | Not classified |
| Reproductive toxicity: | Not classified |
| STOT-single exposure: | Not classified |
| STOT-repeated exposure: | Not classified |
| Aspiration hazard: | Not classified |

### 11.2 Information on other hazards

| | |
|---|---|
| Endocrine disrupting properties | The mixture does not contain endocrine disruptor. |
| Other information | Not applicable |

## 12 - ECOLOGICAL INFORMATION

### 12.1 Toxicity

CAS: 68515-73-1:

Acute (short-term) toxicity:

| | |
|---|---|
| LC50 (96h, Danio rerio): | 100.81mg/L |
| LC50 (96h, Scophthalmus maximus): | 96.64mg/L |
| EC50 (48h, Daphnia magna) | > 100mg/L |
| EC50 (48h, Marine water invertebrates): | 31.62 mg/L |

Chronic (long-term) toxicity:

| | |
|---|---|
| NOEC (28d, Danio rerio): | 1.8mg/L |
| EC10 (21d, Daphnia magna): | 1.76mg/L |

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Toxicity to aquatic algae and cyanobacteria:

| | |
|---|---|
| EC50 (Freshwater algae): | 27.22 mg/L |
| EC50 (Marine water algae): | 7.03 mg/L |
| NOEC (Freshwater algae): | 6.25 mg/L |

CAS: 110615-47-9:
Acute (short-term) toxicity:

| | |
|---|---|
| LC50 (96h, Fish): | 2.95mg/L |
| EC50 (48h, Aquatic invertebrates) | 7mg/L |

Chronic (long-term) toxicity:

| | |
|---|---|
| NOEC (28d, Fish): | 1.8mg/L |
| EC10 (21d, Daphnia magna): | 1.76mg/L |

Toxicity to aquatic algae and cyanobacteria:

| | |
|---|---|
| EC50 (72h, Green algae): | 12.5 mg/L |

## 12.2 Persistence and degradability
CAS: 68515-73-1 & 110615-47-9:
Biodegradation in water: screening tests: Readily biodegradable according to the OECD criteria.
Biodegradation in water and sediment: simulation tests: >99.4%/28d

## 12.3 Bioaccumulative potential
Not available

## 12.4 Mobility in soil
Not available

## 12.5 Results of PBT and vPvB assessment
The mixture does not contain PBT / vPvB substance.

## 12.6 Endocrine disrupting properties
The mixture does not contain endocrine disruptor.

## 12.7 Other adverse effects
General information: Do not allow to enter into ground-water, surface water or drains.

## 12.8 Additional information
Not available

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## 13 - DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Dispose of in accordance with all applicable local and national regulations. Use recovery/recycling where feasible, otherwise incineration is the recommended method of disposal. Empty containers may contain hazardous residues. Do not cut, puncture or weld on or near to the container. Labels should not be removed from containers until they have been cleaned. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

## 14 - TRANSPORT INFORMATION

| | Land transport (ADR/RID) | Inland waterways (ADN) | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|---|---|---|---|---|
| **14.1 UN number or ID number** | Not regulated | Not regulated | Not regulated | Not regulated |
| **14.2 UN Proper shipping name** | Not regulated | Not regulated | Not regulated | Not regulated |
| **14.3 Transport hazard class(es)** | Not regulated | Not regulated | Not regulated | Not regulated |
| **14.4 Packing group** | Not regulated | Not regulated | Not regulated | Not regulated |
| **14.5 Environmental hazards** | No | No | No | No |
| **14.6 Special precautions for user** | See section 2.2 | See section 2.2 | See section 2.2 | See section 2.2 |
| **14.7 Maritime transport in bulk according to IMO instruments** | Not regulated | Not regulated | Not regulated | Not regulated |

## 15 - REGULATORY INFORMATION

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

Relevant information regarding authorization: Not applicable.
Relevant information regarding restriction: Not applicable.
Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.
Other National regulations: Not applicable.

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## 15.2 Chemical Safety Assessment

No.

## 16 - OTHER INFORMATION

## 16.1 Indication of changes

Version 1.0 Amended by (EU) 2020/878

## 16.2 Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
RID: Regulation for rail International transportation of Dangerous goods
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: Code international maritime dangerous goods code
ICAO: International Civil Aviation Organization
IATA: International Air Transport Association
UFI: Unique Formula Identifier
LC50: median lethal concentration
EC50: The effective concentration of substance that causes 50% of the maximum response.
NOEC: No Observed Effect Concentration
DNEL: derived no-effect level
PNEC: predicted no-effect concentration

## 16.3 Key literature references and sources for data

ECHA Registered substances data

## 16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

| Classification according to Regulation (EC) No. 1272/2008 | | Classification procedure |
|---|---|---|
| Skin Irrit. 2 | H315 | On basis of test data |
| Eye dam.1 | H318 | On basis of test data |

## 16.5 Relevant H-statements (number and full text)

H315: Causes skin irritation.
H318: Causes serious eye damage.

## 16.6 Training instructions

Not applicable.

## 16.7 Further information

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.