Safety Data Sheet
Clean Drop espresso machine cleaning aid

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : Clean Drop espresso machine cleaning aid

Product code : 142/153

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

Relevant identified uses

Intended for general public

Main use category : Professional use,Consumer use

Use of the substance/mixture : Tablets for cleaning of fully automatic coffee machines and manual espresso machines.

Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Norsk Kaffeinformasjon Handel AS
Niels Juels gate 16
N-0272 Oslo, Norway
T +47 23 13 18 50
cleandrop@kaffe.no - www.kaffe.no

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
United Kingdom	National Poisons Information Service (Newcastle Unit)	Claremont Place Newcastle-upon-Tyne, Newcastle	+44 191 2606182/+44 191 2606180 24H

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H335

Full text of hazard classes and H-statements : see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS05 GHS07

Signal word (CLP) : Danger

Hazardous ingredients : malic acid; Sodium Carbonate Peroxide; Trisodium phosphate; Sodium C12-14 Alkyl Sulfate

Hazard statements (CLP) : H315 - Causes skin irritation
H318 - Causes serious eye damage
H335 - May cause respiratory irritation

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
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

Extra phrases : The selection of precautionary statements for the label is based on Guidance on labelling and packaging in accordance with Regulation (EC) No 1272/2008 Article 22, Chapter 7.2 Methodology.

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Trisodium phosphate	(CAS-No.) 7601-54-9 (EC-No.) 231-509-8 (REACH-no) 01-2119489800-32	30 - 40	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
malic acid	(CAS-No.) 6915-15-7 (EC-No.) 230-022-8 (REACH-no) 01-2119906954-31	20 - 30	Acute Tox. 4 (Oral), H302 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318
Sodium Carbonate Peroxide	(CAS-No.) 15630-89-4 (EC-No.) 239-707-6 (REACH-no) 01-2119457268-30	10 - 15	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
sodium carbonate	(CAS-No.) 497-19-8 (EC-No.) 207-838-8 (EC Index-No.) 011-005-00-2 (REACH-no) 01-2119485498-19	< 5	Eye Irrit. 2, H319
Sodium C12-14 Alkyl Sulfate	(CAS-No.) 85586-07-8 (EC-No.) 287-809-4 (REACH-no) 01-2119489463-28	< 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

First-aid measures after skin contact : Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if any discomfort continues.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Ingestion may cause nausea, vomiting and diarrhea.

4.3. Indication of any immediate medical attention and special treatment needed

No specific first aid measures noted.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable according to national regulations concerning flammable goods.

Hazardous decomposition products in case of fire : Carbon dioxide (CO2). Carbon monoxide (CO). Sulphurous gases (SOx). Sodium oxides. Phosphorus oxides.

5.3. Advice for firefighters

Firefighting instructions : Containers close to fire should be removed immediately or cooled with water. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper personal protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all contact with skin, eyes, or clothing. Avoid dust formation. Do not breathe dust.

For non-emergency personnel

Protective equipment : Wear appropriate personal protective equipment - see Section 8.

For emergency responders

No additional information available

6.2. Environmental precautions

Dilute residues and flush. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. Collect spillage.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapours, dust.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of reach of children. Keep container tightly closed. Store in a dry place. Store at room temperature.

7.3. Specific end use(s)

No additional data.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Gloves are not required under normal conditions of use. For exposure of 1 to 4 hours use gloves made of: Wear rubber gloves or Latex gloves. Vinyl. Layer thickness : 0,10mm. Breakthrough time : >480min. STANDARD EN 374.

Eye protection : Under normal conditions of use eye protection is not required. Wear dust resistant safety goggles where there is danger of eye contact. STANDARD EN 166.

Skin and body protection : Not required

Respiratory protection : Under normal conditions of use respiration protection should not be required.

Other information : Do not eat, drink or smoke during use. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Tablets.

Colour : white.

Odour : Odourless or no characteristic odour.

Odour threshold	:	No data available
pH	:	< 11.5
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	Not determined
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	Not relevant
Critical temperature	:	Not determined
Auto-ignition temperature	:	Not self-igniting
Decomposition temperature	:	Not determined
Flammability (solid, gas)	:	Non flammable
Vapour pressure	:	Not determined
Critical pressure	:	Not determined
Relative vapour density at 20 °C	:	No data available
Relative density	:	≈ 1.2
Solubility	:	Very soluble in water.
Log Pow	:	No data available
Viscosity, kinematic	:	Not relevant
Viscosity, dynamic	:	No data available
Explosive properties	:	Not explosive.
Oxidising properties	:	Non flammable.
Explosive limits	:	No data available

9.2. Other information

Additional information : None to our knowledge.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal temperature conditions and recommended use.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

No known hazardous reaction products.

10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity : Not classified

Based on available data, the classification criteria are not met

sodium carbonate (497-19-8)	
LD50 oral rat	2800 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	2.3 mg/l/4h

malic acid (6915-15-7)	
LD50 oral rat	1600 mg/kg

Sodium Carbonate Peroxide (15630-89-4)	
LD50 oral rat	1034 mg/kg

Sodium C12-14 Alkyl Sulfate (85586-07-8)	
LD50 oral rat	> 2000 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.

pH: < 11.5

Serious eye damage/irritation	:	Causes serious eye damage. pH: < 11.5
Respiratory or skin sensitisation	:	Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	:	Not classified Based on available data, the classification criteria are not met
Carcinogenicity	:	Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	:	Not classified Based on available data, the classification criteria are not met
STOT-single exposure	:	May cause respiratory irritation.
STOT-repeated exposure	:	Not classified Based on available data, the classification criteria are not met
Aspiration hazard	:	Not classified Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	:	Due to the small quantities, the risk from exposure to material from one single unit is regarded as insignificant.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - general : Not regarded as dangerous to the environment. This does not, however, rule out the possibility that large or frequent smaller emissions of the product may be harmful to the environment.

sodium carbonate (497-19-8)	
LC50 fish 1	300 mg/l (96 hours - Lepomis macrochirus)
EC50 Daphnia 1	265 mg/l (48 hours - Daphnia magna)

Sodium Carbonate Peroxide (15630-89-4)	
LC50 fish 1	70.7 mg/l (96 hours - Pimephales promelas)
EC50 Daphnia 1	4.9 mg/l (48 hours - Daphnia pulex)

Trisodium phosphate (7601-54-9)	
LC50 fish 1	28.5 mg/l Gambusia affinis (Mosquito fish)
EC50 Daphnia 1	126 mg/l 48h

Sodium C12-14 Alkyl Sulfate (85586-07-8)	
LC50 fish 1	0.46 mg/l (96 hours - Cyprinodon variegatus)
EC50 Daphnia 1	2.7 mg/l Daphnia magna, 48 hours

12.2. Persistence and degradability

Clean Drop espresso machine cleaning aid	
Persistence and degradability	Readily biodegradable.

Sodium C12-14 Alkyl Sulfate (85586-07-8)	
Biodegradation	100 % (30 days, method: OECD 301D)

12.3. Bioaccumulative potential

Clean Drop espresso machine cleaning aid	
Bioaccumulative potential	Not potentially bioaccumulable.

sodium carbonate (497-19-8)	
Log Pow	0

malic acid (6915-15-7)	
Log Pow	-1.26

12.4. Mobility in soil

Clean Drop espresso machine cleaning aid	
Ecology - soil	The product is water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

Clean Drop espresso machine cleaning aid
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects : No information.

Additional information : Avoid release to the environment

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Recover and reclaim or recycle, if practical.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : The given LoW-code is a guiding, and the code depends on how the waste is formed. User must evaluate the choice of correct code.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 20 01 29* - detergents containing dangerous substances

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number
Not regulated for transport
14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group
14.5. Environmental hazards
No supplementary information available

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IBC code : Not applicable.

SECTION 15: REGULATORY INFORMATION

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

EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

National regulations

EC-regulation 2015/830 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.
Detergent Regulation (648/2004/EC)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

Data sources : EC-regulation 2015/830 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

Other information : None.

Date of issue : 09/01/2009

Revision date : 20/03/2017

Supersedes : 17/04/2015

Version : 4.0

Signature : K. Dyreskog

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H412	Harmful to aquatic life with long lasting effects

The information in this safety data sheet is based on information from the manufacturer/supplier, present european and national legislation, and presupposes that the product is used within the specified area of application.