Version: 07.2020
Rev.0

Material safety data sheet

According to EU Regulation 1907/2006 in the current version

STABILA CO-EMULSIFIER

1. Identification of the substance/mixture and company

Trade name:	Stabila co-emulsifier
INCI	Cetyl Alcohol
REACH pre-registration No. :	01-2119485905-24-XXXX
Utilization:	Raw material for cosmetics, personal care
Supplier company identification:	Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania Tel/Fax: +40259-436.755, www.ellemental.com
Emergency:	RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București. International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture
Classification according to Regulation EC No 1272/2008 CLP:
The substance is not classified, according to the CLP regulation

2.2 Label elements
Labelling according to Regulation EC No 1272/2008 CLP: Void
Hazard pictograms: Void
Signal word: Void
Hazard statements: Void

2.3. Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

3. Declaration of ingredients

3.1 Substances
CAS No. Description
36653-82-4 1-Hexadecanol - 100% w/w
Identification number(s)
EC number: 253-149-0

3.2 Mixtures
Not concerned

4. First aid measures

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General information:
No special measures required.
Take affected persons out into the fresh air.
After inhalation: Seek medical treatment in case of complaints.
After skin contact:
Immediately wash with water and soap and rinse thoroughly.
In case of skin irritation, consult a physician.
After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Remove contact lenses and continue rinsing for several minutes
Avoid strong water jet-risk of cornea damage, consult a doctor.
After swallowing:
Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person
4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5. Fire fighting measures

5.1 Extinguishing media
Suitable extinguishing agents: Water spray, Dry powder, Foam, Carbon dioxide (CO2)
5.2 Special hazards arising from the substance or mixture
Carbon monoxide (CO)
Carbon dioxide (CO2)
5.3 Advice for firefighters
Protective equipment:
Self contained breathing apparatus and full protective clothing must be worn in case of fire.
Additional information
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.
6.1.2 For emergency responders
First-aid responders must wear protectice clothing, gloves, goggles and respiratory device with filter type A.
6.2 Environmental precautions:
Do not discharge into drains, surface water, ground water.
Recuperate the spilled product. Wash with water and detergent. Recuperate all material in a suitable labelled

container for disposal.
6.3 Methods and material for containment and cleaning up:
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
6.4 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

7. Handling and storage

7.1 Precautions for safe handling
Handle in accordance with good hygiene and safety procedures. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Do not breathe dust, and avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure and wash thoroughly after handling.
Information about fire - and explosion protection: Protect from sources of heat, ignition and flame.
7.2 Conditions for safe storage, including any incompatibilities
Keep container closed and store in a cool, dry place
Storage: Suitable material: Stainless steel, glass, Polyethylene
Requirements to be met by storerooms and receptacles: Store in a cool location.
Information about storage in one common storage facility:
Store away from strong oxidizing agents.
Do not store with strong acids.
Keep away from heat and direct sunlight.
Further information about storage conditions: None.
7.3 Specific end use(s) No further relevant information available.

8. Exposure controls / personal protection

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace: Not required.
DNELs
Data for WORKERS Systemic Effects
Long-term: (DNEL) 389 mg/m³ repeated dose toxicity (Inhalation exposure) Systemic Effects
Long-term: (DNEL) 110 mg/kg bw/day repeated dose toxicity (Dermal exposure)
Data for the GENERAL POPULATION Systemic Effects
Long-term: (DNEL) 96 mg/m³ repeated dose toxicity (inhalation exposure) Systemic Effects
Long-term: (DNEL) 55 mg/kg bw/day repeated dose toxicity (Dermal Exposure) Systemic Effects
Long-term: (DNEL) 55 mg/kg bw/day repeated dose toxicity (Oral exposure)
PNECs
Sediment (freshwater) 30 mg/kg sediment dw

Sediment (marine water) 3 mg/kg sediment dw
Soil 5.8 mg/kg soil dw
Secondary poisoning No potential for bioaccumulation

8.2 Exposure controls
8.2.1. Appropriate engineering controls
Take appropriate protective measures with regard to the handling of chemicals and mixtures.
Personal protective equipment
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Wash the hands thoroughly after handling
Avoid contact with the eyes.
Avoid contact with the skin.
Do not breathe vapours or mists.
Respiratory protection:
No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where dust, fibres and smoke occur, use selfcontained
breathing apparatus or breathing apparatus with a type P2 or P3 filter, in compliance with EN 143.
Protection of hands:
Protective gloves resistant to chemicals (standard EN 374-1)
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
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.
Material: Nitrile rubber/nitrile latex; Break through time: $\geqslant$ 480 min; Material thickness: 0.35 mm
Material: butyl-rubber; Break through time: $\geqslant$ 480 min; Material thickness: 0.5 mm
Penetration time of glove material
The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
Eye protection:
Safety glasses
Body protection: Suitable protective clothing - long sleeve shirts and trousers.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information

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Appearance:
Form: Solid
White flakes/Pastilles (clear liquid when melted)
Colour: Colourless
Odour: Odourless
Odour threshold: Not determined
pH value: Not applicable
Melting point/freezing point: 51 °C
Initial boiling point and boiling range: 319-334 °C
Flash point: 149 °C (ASTM-D93)
Flammability (solid, gas): Product is not flammable.
Auto-ignition temperature: 250 °C
Decomposition temperature: Not determined
Auto-ignition temperature: Not determined.
Explosive properties: Product does not present an explosion hazard.
Explosion limits:
Lower: Not determined
Upper: Not determined
Oxidising properties Not considered as oxidising.
Vapour pressure at 25 °C: 0.001 Pa
Density at 20 °C: 0.889 g/cm³
Relative density Not determined
Vapour density Not applicable
Evaporation rate Not applicable
Solubility in / Miscibility with
water at 20 °C: <1 mg/l
Partition coefficient: n-octanol/water: 6.7 log POW
Viscosity:
Dynamic: Not applicable
Kinematic at 40 °C: 3.394 mm2/s
9.2 Other information No further relevant information available

10. Stability and reactivity

10.1 Reactivity No further relevant information available.
10.2 Chemical stability Material is stable under normal conditions.
Thermal decomposition / conditions to be avoided
No decomposition if used and stored according to specifications.
Stable at environment temperature.
10.3 Possibility of hazardous reactions No dangerous reactions known.
10.4 Conditions to avoid
Avoid contact with incompatible materials.

Avoid formation of dust.
10.5 Incompatible materials Strong acids and oxidising agents.
10.6 Hazardous decomposition products Carbon monoxide and carbon dioxide.

11. Toxicological information

11.1 Information on toxicological effects
Acute toxicity Based on available data, the classification criteria are not met.
LD/LC50 values relevant for classification:
Oral - LD50: >2000 mg/kg bw (rat(Sprague-Dawley)male/female).
Dermal - LD50: 8000 mg/kg bw (rabbit (New Zealand White))
Skin corrosion/irritation
Following a 4 hour semi-occlusive exposure of Kalcol 6098 to rabbit skin there was no evidence of skin irritation between 24 and 72 hours after patch removal. Test chemical is not a skin irritant according to EU or GHS criteria.
Serious eye damage/irritation Test chemical is not an eye irritant according to EU or GHS criteria.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Repeated dose toxicity
Based on available data, the classification criteria are not met.
Animal/ Species/ Sex:rat /albino/ male/female
Route: Oral
Doses/concentrations: 723, 1822 and 4257 mg/kg bw/day
Endpoint: NOAEL
Effect level :> 4257 other: mg/kg (bw) based on highest dose tested. Sex: Male/Female
Animal/ Species: Sprague-Dawley rat
Route: Oral
Doses: 100, 500, and 1000 mg/kg bw
Endpoint: NOAEL
Effect level :> 1000 mg/kg bw/day (nominal)
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
Reproduction toxicity; Species/Strain: dog/Beagle Route: Oral
NOAEL :> 1054 mg/kg bw/day
Species/Strain: Albino rat/male/female NOAEL(male):1822 mg/kg bw/day NOAEL(female):4567 mg/kg bw/day
Species/Strain: Sprague-Dawley rat male/female
Route: Oral
NOAEL (male/female):1000 mg/kg bw/day
Genetic toxicity in Vitro
Type of study: Ames test
Species/strain: S. typhimurium TA 1535, TA 1537, TA 98 and TA 100
Metabolic activation: with and without
Genotoxicity: negative

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Species/strain: S. typhimurium TA 1538
Metabolic activation: with and without
Genotoxicity: negative
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Test chemical is non carcinogenic.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.

12. Ecological information

12.1 Toxicity
Aquatic toxicity:
LC 50 (96 hrs): > 0.4 mg/L (Fish) (limit of solubility (non toxic))
EC 50 (48 hrs): >0.024 (Daphnia magna) (limit of solubility (non toxic))
EL50 (96 hrs): > 1000 mg/L (n, > LoS) (Desmodesmus subspicatus)
12.2 Persistence and degradability
The test chemical is readily biodegradable in nature and therefore is non persistent in environment
12.3 Bioaccumulative potential BCF (aquatic species): 1000 L/kg ww
12.4 Mobility in soil
Koc at 20 °C: 249 732 (log Koc=5.3974) this log Koc value indicate that test chemical has very strong sorption to soil and sediments and negligible migration potential to ground water.
Additional ecological information:
General notes: Not known to be hazardous to water.
12.5 Results of PBT and vPvB assessment
The substance is non persistent, not toxic and non-bioaccumulating according to the criteria.
PBT: Not applicable.
vPvB: Not applicable.
12.6 Other adverse effects No further relevant information available.

13. Disposal considerations

13.1 Waste treatment methods
a) The product should not get into any kind of water without treatment. Dissolved in water, the material is easily biodegradable (90%) and will not cause any disturbance in wastewater-treatment plants. Due to its low solubility in water, larger amounts need to be eliminated by separators, such as those used for fats and oils.
(Contd. of page 8)
b) Disposal of small amounts of waste material to be done in accordance with federal, state and local environmental regulations.
c) Larger amounts should be collected as described in section 6 and used for recycling crude raw materials.
· Recommendation

1) Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.
Recommendation
Dispose according to National Regulations.
Contact manufacturer for recycling information.
Waste disposal key:
i) Disposal of small amounts of waste material to be done in accordance with federal, state and local environmental regulations.
ii) Larger amounts should be collected as described in section 6 and used for recycling crude raw materials.
Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

14. Transport information

14.1 UN-Number
ADR, IMDG, IATA Void
14.2 UN proper shipping name
ADR, IMDG, IATA Void
14.3 Transport hazard class(es)
ADR, ADN, IMDG, IATA
Class Void
14.4 Packing group
ADR, IMDG, IATA Void
14.5 Environmental hazards: Not applicable.
14.6 Special precautions for user Not applicable.
14.7 Transport in bulk according to Annex II of
Marpol and the IBC Code Not applicable.
UN "Model Regulation": Void

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
REACH Regulation 1907/2006/EC
Regulation (EU) 2015/830
CLP Regulation 1272/2008/EC
Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.
Council Directive 94/33/EC on the protection of young people at work, as ammended.
Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as ammended
Directive 2012/18/EU

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Named dangerous substances - ANNEX I
None of the ingredients is listed.
Substance is not listed.
National regulations:
Other regulations, limitations and prohibitive regulations
Substances of very high concern (SVHC) according to REACH, Article 57
The substance is not SVHC.
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Additional information

16.1 Abbreviations
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.
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.
LTE: Long-term exposure.
PNEC: Predicted No Effect Concentration.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE: Short-term exposure.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.

Disclaimer:
This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.