

Safety Data Sheet

DECALC

Safety Data Sheet dated 22/1/2016, version 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier
Mixture identification
Trade name: DECALC
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Detergent for hard surfaces.
Uses advised against:
Do not use in combination with other products.
- 1.3. Details of the supplier of the safety data sheet
Manufacturer:

SUTTER INDUSTRIES s.p.a. - Società con Unico Socio
15060 Borghetto Borbera (AL) Italia
Tel. +39 0143 631.1
- Competent person responsible for the safety data sheet:
regulatory.affairs@sutter.it
- 1.4. Emergency telephone number
+39 0143 631.1

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP)
⚠ Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.
⚠ Danger, Eye Dam. 1, Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P280 Wear eye protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

Special Provisions:

EUH210 Only for professional use. Safety data sheet available on request.

Contents

2-PROPYLHEPTANOL ETHOXYLATED PROPOXYLATED
FORMIC ACID

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Product contents:
 non-ionic surfactants < 5 %
 The product also contains: Perfumes
 Allergens: D-LIMONENE
 Preservatives:
 Special provisions according to Annex XVII of REACH and subsequent amendments:
 None
 2.3. Other hazards
 vPvB Substances: None - PBT Substances: None
 Other Hazards:
 No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

>= 12.5% - < 15% SULPHAMIDIC ACID; SULPHAMIC ACID; SULFAMIC ACID

REACH No.: 01-2119488633-28, Index number: 016-026-00-0, CAS: 5329-14-6, EC: 226-218-8

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.2/2 Skin Irrit. 2 H315

4.1/C3 Aquatic Chronic 3 H412

>= 1% - < 3% FORMIC ACID

REACH No.: 01-2119491174-37, Index number: 607-001-00-0, CAS: 64-18-6, EC: 200-579-1

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.2/1A Skin Corr. 1A H314

⚠ 3.1/3/Inhal Acute Tox. 3 H331

⚠ 3.1/4/Oral Acute Tox. 4 H302

>= 1% - < 3% 2-PROPYLHEPTANOL ETHOXYLATED PROPOXYLATED

CAS: 166736-08-9

⚠ 3.3/1 Eye Dam. 1 H318

⚠ 3.1/4/Oral Acute Tox. 4 H302

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

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 induce vomiting.

In case of Inhalation:

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

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

None

4.3. Indication of any 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).

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Treatment:
None

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
 - Suitable extinguishing media:
 - Water.
 - Carbon dioxide (CO₂).
 - Extinguishing media which must not be used for safety reasons:
 - None in particular.
- 5.2. Special hazards arising from the substance or mixture
 - Do not inhale explosion and combustion gases.
 - Burning produces heavy smoke.
- 5.3. Advice for firefighters
 - 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.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
 - Wear personal protection equipment.
 - Remove all sources of ignition.
 - Remove persons to safety.
 - See protective measures under point 7 and 8.
- 6.2. Environmental precautions
 - Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
 - Retain contaminated washing water and dispose it.
 - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
 - Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
 - Wash with plenty of water.
- 6.4. Reference to other sections
 - See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
 - Avoid contact with skin and eyes, inhalation of vapours and mists.
 - Don't use empty container before they have been cleaned.
 - 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.
- 7.2. Conditions for safe storage, including any incompatibilities
 - Store in area dedicated to acid products, keep away from alkalis and chlorine based oxidants.
 - Store away from sunlight.
 - Keep away from food, drink and feed.
 - Incompatible materials:
 - None in particular.
 - Instructions as regards storage premises:
 - Adequately ventilated premises.
- 7.3. Specific end use(s)
 - None in particular

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

FORMIC ACID - CAS: 64-18-6

EU - LTE(8h): 9 mg/m³, 5 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH - LTE(8h): 5 ppm - STE: 10 ppm - Notes: URT, eye, and skin irr

DNEL Exposure Limit Values

SULPHAMIDIC ACID; SULPHAMIC ACID; SULFAMIC ACID - CAS: 5329-14-6

Worker Industry: 7.5 mg/m³ - Consumer: 1.85 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 1.06 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

FORMIC ACID - CAS: 64-18-6

Worker Industry: 9.5 mg/m³ - Consumer: 3 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 9.5 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

PNEC Exposure Limit Values

SULPHAMIDIC ACID; SULPHAMIC ACID; SULFAMIC ACID - CAS: 5329-14-6

Target: Microorganisms in sewage treatments - Value: 200 mg/l

Target: Fresh Water - Value: 0.3 mg/l

Target: Marine water - Value: 0.03 mg/l

Target: Marine water sediments - Value: 0.03 mg/l

Target: Soil (agricultural) - Value: 3 mg/kg

FORMIC ACID - CAS: 64-18-6

Target: Marine water - Value: 0.2 mg/l

Target: Fresh Water - Value: 2 mg/l

Target: Marine water sediments - Value: 1.34 mg/kg

Target: Freshwater sediments - Value: 13.4 mg/kg

Target: Soil (agricultural) - Value: 1.5 mg/kg

Target: Microorganisms in sewage treatments - Value: 7.2 mg/l

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, 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:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Clear liquid, green	--	--

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Odour:	Fruity	--	--
Odour threshold:	Evident	--	--
pH:	< 1,0	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash point:	> 65 ° C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	1,095 g/ml	--	--
Solubility in water:	Total	--	--
Solubility in oil:	None	--	--
Partition coefficient (n-octanol/water):	< 1000	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	< 10 cP	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	Not Relevant	--	--

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SECTION 10: Stability and reactivity

- 10.1. Reactivity
 - Stable under normal conditions
- 10.2. Chemical stability
 - Stable under normal conditions
- 10.3. Possibility of hazardous reactions
 - None
- 10.4. Conditions to avoid
 - Stable under normal conditions.
- 10.5. Incompatible materials
 - None in particular.
- 10.6. Hazardous decomposition products
 - None.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
 - Toxicological information of the mixture:
 - N.A.
 - Toxicological information of the main substances found in the mixture:
 - SULPHAMIDIC ACID; SULPHAMIC ACID; SULFAMIC ACID - CAS: 5329-14-6
 - a) acute toxicity:
 - Test: LD50 - Route: Oral - Species: Rat = 1450 mg/kg
 - Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
 - FORMIC ACID - CAS: 64-18-6
 - a) acute toxicity:
 - Test: LD50 - Route: Oral - Species: Rat = 730 mg/kg
 - Test: LC50 - Route: Inhalation - Species: Rat = 7.4 mg/l - Duration: 4h
 - 2-PROPYLHEPTANOL ETHOXYLATED PROPOXYLATED - CAS: 166736-08-9
 - a) acute toxicity:
 - Test: LD50 - Route: Oral - Species: Rat = 300 mg/kg
 - FORMIC ACID - CAS: 64-18-6
 - LD50 (RAT) ORAL: 1210 MG/KG

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

- 12.1. Toxicity
 - Adopt good working practices, so that the product is not released into the environment.
 - SULPHAMIDIC ACID; SULPHAMIC ACID; SULFAMIC ACID - CAS: 5329-14-6
 - a) Aquatic acute toxicity:
 - Endpoint: LC50 - Species: Fish = 14.2 mg/l - Duration h: 96 - Notes: Pimephales promelas
 - Endpoint: EC50 - Species: Daphnia = 71.6 mg/l - Duration h: 48 - Notes: Daphnia Magna
 - Endpoint: EC50 - Species: Algae = 48 mg/l - Duration h: 72 - Notes: Desmodesmus

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subspicatus

FORMIC ACID - CAS: 64-18-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 130 mg/l - Duration h: 96 - Notes: Brachydanio rerio

Endpoint: EC50 - Species: Daphnia = 32.19 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae = 1240 mg/l - Duration h: 72 - Notes: Selenastrum capricornutum

2-PROPYLHEPTANOL ETHOXYLATED PROPOXYLATED - CAS: 166736-08-9

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 10.1 mg/l - Duration h: 96 - Notes: Brachydanio rerio

Endpoint: EC50 - Species: Daphnia = 10.1 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae = 10.1 mg/l - Duration h: 72 - Notes: Scenedesmus subspicatus

12.2. Persistence and degradability

None

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment 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.

SECTION 14: Transport information



14.1. UN number

ADR-UN Number: 1760

IATA-UN Number: 1760

IMDG-UN Number: 1760

14.2. UN proper shipping name

ADR-Shipping Name: CORROSIVE LIQUID, N.O.S. (formic acid)

IATA-Shipping Name: CORROSIVE LIQUID, N.O.S. (formic acid)

IMDG-Shipping Name: CORROSIVE LIQUID, N.O.S. (formic acid)

14.3. Transport hazard class(es)

ADR-Class: 8

ADR - Hazard identification number: 80

IATA-Class: 8

IMDG-Class: 8

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

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- 14.6. Special precautions for user
- | | |
|------------------------------|---------------------------|
| ADR-Subsidiary risks: | - |
| ADR-S.P.: | 274 |
| ADR-Tunnel Restriction Code: | 3 (E) |
| IATA-Passenger Aircraft: | 852 |
| IATA-Subsidiary risks: | - |
| IATA-Cargo Aircraft: | 856 |
| IATA-S.P.: | A3 A803 |
| IATA-ERG: | 8L |
| IMDG-EmS: | F-A , S-B |
| IMDG-Subsidiary risks: | - |
| IMDG-Storage category: | Category A |
| IMDG-Storage notes: | Clear of living quarters. |
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
N.A.

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
- Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
None
- Where applicable, refer to the following regulatory provisions :
Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.
Regulation (EC) nr 648/2004 (detergents).
1999/13/EC (VOC directive)
- Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
None
- 15.2. Chemical safety assessment
No

SECTION 16: Other information

- Full text of phrases referred to in Section 3:
- H319 Causes serious eye irritation.
H315 Causes skin irritation.
H412 Harmful to aquatic life with long lasting effects.
H226 Flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.
H331 Toxic if inhaled.
H302 Harmful if swallowed.
H318 Causes serious eye damage.

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 4: First aid measures
SECTION 6: Accidental release measures
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 13: Disposal considerations
SECTION 14: Transport information
SECTION 15: Regulatory information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

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.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS 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.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
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.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
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.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.