

# Safety Data Sheet

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HYGIENE FOR HEALTH

Safety Data Sheet dated 15/9/2014, version 2

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

### 1.1. Product identifier

Mixture identification

Trade name: ~~XXXXXXXXXXXXXXXXXXXX~~ a c Aca, BAO [ } aã ] ^!

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

Recommended use:

Additiv for laundry.

Uses advised against:

Do not use in combination with other products.

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:

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Tel 01J4GÄî ÅG Å  
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Ö emergency telephone number  
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

None.

R Phrases:

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

EC regulation criteria 1272/2008 (CLP)

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

Symbols:

None

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contents

OCTAHYDRO TETRAMETHYL ACETONAPHTONE: May produce an allergic reaction.

METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE: May produce an allergic reaction.

Product contents:

55002A/2

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cationic surfactants 5 - 15 %  
non-ionic surfactants < 5 %  
The product also contains: Perfumes, Optical bleaches  
Allergens: COUMARIN, BUTYLPHENYL METHYLPROPIONAL, LINALOOL,  
CITRONELLOL, EUGENOL, HEXYL CINNAMAL  
Preservatives: METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE  
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 EEC directive 67/548 and CLP regulation and related classification:

>= 1% - < 3% PROPAN-2-OL

REACH No.: 01-2119457558-25, Index number: 603-117-00-0, CAS: 67-63-0, EC: 200-661-7  
F,Xi; R11-36-67

⚠ 2.6/2 Flam. Liq. 2 H225

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.8/3 STOT SE 3 H336

>= 0.1% - < 0.25% 1,3,4,6,7,8-HEXAHYDRO-4,6,6,7,8-HEXAMETHYLINDENO[5,6-C]PYRAN;  
GALAXOLIDE; (HHCB)

REACH No.: 01-2119488227-29, Index number: 603-212-00-7, CAS: 1222-05-5, EC: 214-946-9  
N; R50/53

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.1% - < 0.25% SCENTED ESSENCES R52/53

R52/53

4.1/C3 Aquatic Chronic 3 H412

>= 0.1% - < 0.25% SCENTED ESSENCES R51/53

N; R51/53

⚠ 4.1/C2 Aquatic Chronic 2 H411

>= 0.1% - < 0.25% OCTAHYDRO TETRAMETHYL ACETONAPHTONE

REACH No.: 01-2119489989-04, CAS: 54464-57-2, EC: 259-174-3  
Xi,N; R38-43-51/53

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1-1A-1B Skin Sens. 1, 1A, 1B H317

⚠ 4.1/C2 Aquatic Chronic 2 H411

250 ppm 4-TERT-BUTYLCYCLOHEXYLACETATE

REACH No.: 01-2119976286-24, CAS: 32210-23-4, EC: 250-954-9  
Xi,N; R51/53-43

⚠ 4.1/C2 Aquatic Chronic 2 H411

⚠ 3.4.2/1 Skin Sens. 1 H317

4 ppm METHANOL

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REACH No.: 01-2119433307-44, Index number: 603-001-00-X, CAS: 67-56-1, EC: 200-659-6  
F,T; R11-23/24/25-39/23/24/25

- 2.6/2 Flam. Liq. 2 H225
- 3.8/1 STOT SE 1 H370
- 3.1/3/Oral Acute Tox. 3 H301
- 3.1/3/Dermal Acute Tox. 3 H311
- 3.1/3/Inhal Acute Tox. 3 H331

285 ppb N,N-DIMETHYLFORMAMIDE; DIMETHYL FORMAMIDE

REACH No.: 01-2119475605-32, Index number: 616-001-00-X, CAS: 68-12-2, EC: 200-679-5  
Repr. Cat. 2,Xn,Xi; R20/21-36-61

- 2.6/3 Flam. Liq. 3 H226
- 3.7/1B Repr. 1B H360
- 3.3/2 Eye Irrit. 2 H319
- 3.1/4/Dermal Acute Tox. 4 H312
- 3.1/4/Inhal Acute Tox. 4 H332

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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.

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

None

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

Treatment:

None

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

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

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.

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## SECTION 6: Accidental release measures

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

Wear personal protection equipment.

Remove persons to safety.

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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

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## 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 away from sunlight.

Store in a cool and well ventilated place.

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

PROPAN-2-OL - CAS: 67-63-0

ACGIH, 200 ppm, 400 ppm - Notes: A4, BEI - Eye and URT irr, CNS impair

4-TERT-BUTYLCYCLOHEXYLACETATE - CAS: 32210-23-4

ACGIH - LTE(8h): 713 mg/m<sup>3</sup> - STE(15min): 950 mg/m<sup>3</sup> - Notes: TLV

METHANOL - CAS: 67-56-1

EU - LTE(8h): 260 mg/m<sup>3</sup>, 200 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 200 ppm, 250 ppm - Notes: Skin BEI - Headache, eye dam, dizziness, nausea

N,N-DIMETHYLFORMAMIDE; DIMETHYL FORMAMIDE - CAS: 68-12-2

EU - LTE(8h): 15 mg/m<sup>3</sup>, 5 ppm - STE: 30 mg/m<sup>3</sup>, 10 ppm - Notes: 15 minutes average value (for references see bibliography)

ACGIH, 10 ppm - Notes: Skin, A4, BEI - Liver dam

### DNEL Exposure Limit Values

PROPAN-2-OL - CAS: 67-63-0

Worker Industry: 888 mg/kg - Consumer: 319 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects

Worker Industry: 500 mg/m<sup>3</sup> - Consumer: 89 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 26 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

N,N-DIMETHYLFORMAMIDE; DIMETHYL FORMAMIDE - CAS: 68-12-2

Worker Industry: 3.31 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

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Worker Industry: 15 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

### PNEC Exposure Limit Values

PROPAN-2-OL - CAS: 67-63-0

Target: Microorganisms in sewage treatments - Value: 2251 mg/l

Target: Marine water sediments - Value: 552 mg/kg

Target: Soil (agricultural) - Value: 28 mg/kg

Target: Marine water - Value: 140.9 mg/l

N,N-DIMETHYLFORMAMIDE; DIMETHYL FORMAMIDE - CAS: 68-12-2

Target: Marine water - Value: 3 mg/l

Target: Microorganisms in sewage treatments - Value: 123 mg/l

Target: Freshwater sediments - Value: 25.05 mg/l

Target: Soil (agricultural) - Value: 16.24 mg/l

### 8.2. Exposure controls

#### Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

#### Protection for skin:

No special precaution must be adopted for normal use.

#### Protection for hands:

Not needed for normal use.

#### Respiratory protection:

Not needed for normal use.

#### Thermal Hazards:

None

#### Environmental exposure controls:

None

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance and colour:	Opaque liquid, blue
Odour:	Floral
Odour threshold:	Evident
pH:	2,7 +/- 0,5
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	>= 100 °C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	> 65 °C
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	1,003 g/ml
Solubility in water:	Total
Solubility in oil:	Partial
Partition coefficient (n-octanol/water):	< 1000
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Viscosity:	150 +/- 50 cP
Explosive properties:	N.A.
Oxidizing properties:	N.A.

### 9.2. Other information

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.

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## 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:

PROPAN-2-OL - CAS: 67-63-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4700-5500 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 46-73 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit = 16.4 ml/kg

OCTAHYDRO TETRAMETHYL ACETONAPHTONE - CAS: 54464-57-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

4-TERT-BUTYLCYCLOHEXYLACETATE - CAS: 32210-23-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rabbit = 3200 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 17600 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 390 ppm - Duration: 4h

If not differently specified, the information required in Regulation 453/2010/EC 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.

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## SECTION 12: Ecological information

### 12.1. Toxicity

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

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

PROPAN-2-OL - CAS: 67-63-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 - Notes: Scenedesmus

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4-TERT-BUTYLCYCLOHEXYLACETATE

quadricauda

1,3,4,6,7,8-HEXAHYDRO-4,6,6,7,8,8-HEXAMETHYLINDENO[5,6-C]PYRAN; GALAXOLIDE;  
(HHCB) - CAS: 1222-05-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.1 mg/l

Endpoint: EC50 - Species: Daphnia = 0.1 mg/l

Endpoint: EC50 - Species: Algae = 0.1 mg/l

4-TERT-BUTYLCYCLOHEXYLACETATE - CAS: 32210-23-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 17 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: EC50 - Species: Daphnia = 73 mg/l - Duration h: 24 - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae = 320 mg/l - Duration h: 96 - 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

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### SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

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### SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

14.6. Special precautions for user

N.A.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

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### SECTION 15: Regulatory information

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

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)

Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Dir. 2006/8/EC

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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) n. 453/2010 (Annex I)  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 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)

15.2. Chemical safety assessment

No

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## SECTION 16: Other information

Full text of phrases referred to in Section 3:

R11 Highly flammable.

R20/21 Harmful by inhalation and in contact with skin.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R36 Irritating to eyes.

R38 Irritating to skin.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R61 May cause harm to the unborn child.

R67 Vapours may cause drowsiness and dizziness.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H370 Causes damage to organs.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H226 Flammable liquid and vapour.

H360 May damage fertility or the unborn child.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

Paragraphs modified from the previous revision:



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SECTION 2: Hazards identification  
SECTION 3: Composition/information on ingredients  
SECTION 8: Exposure controls/personal protection  
SECTION 11: Toxicological information  
SECTION 12: Ecological 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

CCNL - Appendix 1

Insert further consulted bibliography

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.