

Safety Data Sheet

CLASH



Safety Data Sheet dated 20/5/2015, version 0

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

1.1. Product identifier

Mixture identification:

Trade name: CLASH

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

Recommended use:

Spray Paint

1.3. Details of the supplier of the safety data sheet

Company:

COLORPACK s.r.l.

Via B.Cellini 26

20020 Solaro

Milano - Italia

Fax +39 029691714 Tel.+39 029690664 (8.30-17.00 from monday to friday)

Web site: www.colorpack.com E-mail: info@colorpack.com

Competent person responsible for the safety data sheet:

m.franzoni@colorpack.com

1.4. Emergency telephone number

COLORPACK s.r.l. Tel.+39 029690664 (8.30-17.00 from monday to friday)

Centro Antiveneni di Milano - Azienda Ospedaliera Niguarda Cà Granda - Tel. 02/66101029

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:

F+ Extremely flammable


Xn Harmful


R Phrases:

R12 Extremely flammable.


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

EC regulation criteria 1272/2008 (CLP)

 Danger, Flam. Aerosol 1, Extremely flammable aerosol.

 Warning, Skin Irrit. 2, Causes skin irritation.

 Warning, Eye Irrit. 2, Causes serious eye irritation.

 Warning, STOT SE 3, May cause drowsiness or dizziness.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:



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Danger

Hazard statements:

- H222 Extremely flammable aerosol.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

Precautionary statements:

- P102 Keep out of reach of children.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
- P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

AEROSOL H229 Pressurized container: may burst if heated.

Contents

xylene
2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime: May produce an allergic reaction.

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:

>= 30% - < 40% Petroleum gases, liquefied, sweetened; Hydrocarbons, C3-4

REACH No.: 01-2119486557-22, Index number: 649-199-00-9, CAS: 68476-40-4, EC: 270-681-9

F+; R12; substance with a Community workplace exposure limit

 2.2/1 Flam. Gas 1 H220


 2.5/L Liquef. Gas H280

DECLK*

>= 10% - < 15% xylene

REACH No.: 01-2119488216-32, Index number: 601-022-00-9, CAS: 1330-20-7, EC: 215-535-7


Xn, Xi; R10-20/21-38

 2.6/3 Flam. Liq. 3 H226

 3.2/2 Skin Irrit. 2 H315

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 3.1/4/Dermal Acute Tox. 4 H312

 3.1/4/Inhal Acute Tox. 4 H332

>= 7% - < 10% n-butyl acetate

REACH No.: 01-2119485493-29, Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1


R10-66-67

 2.6/3 Flam. Liq. 3 H226

 3.8/3 STOT SE 3 H336

>= 5% - < 7% acetone; propan-2-one; propanone

REACH No.: 01-2119471330-49, Index number: 606-001-00-8, CAS: 67-64-1, EC: 200-662-2
F,Xi; R11-36-66-67

 2.6/2 Flam. Liq. 2 H225


 3.3/2 Eye Irrit. 2 H319

 3.8/3 STOT SE 3 H336

>= 3% - < 5% ethyl acetate

REACH No.: 01-2119475103-46, Index number: 607-022-00-5, CAS: 141-78-6, EC: 205-500-4

F,Xi; R11-36-66-67

 2.6/2 Flam. Liq. 2 H225

 3.3/2 Eye Irrit. 2 H319

 3.8/3 STOT SE 3 H336

>= 3% - < 5% sec-butyl acetate;

REACH No.: 01-2119488971-22, Index number: 607-026-00-7, CAS: 110-19-0, EC: 203-745-1

F; R11-66

 2.6/2 Flam. Liq. 2 H225

>= 0.5% - < 1% ethylbenzene

REACH No.: 01-2119489370-35, Index number: 601-023-00-4, CAS: 100-41-4, EC: 202-849-4

F,Xn; R11-20

 2.6/2 Flam. Liq. 2 H225

 3.1/4/Inhal Acute Tox. 4 H332

>= 0.25% - < 0.5% 2-methoxy-1-methylethyl acetate

REACH No.: 01-2119475791-29, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9

R10; substance with a Community workplace exposure limit

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 2.6/3 Flam. Liq. 3 H226

>= 0.25% - < 0.5% Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

REACH No.: 01-2119458049-33, EC: 919-446-0

Xn,N; R10-51/53-65-66-67

 2.6/3 Flam. Liq. 3 H226

 3.10/1 Asp. Tox. 1 H304


 3.8/3 STOT SE 3 H336

 4.1/C2 Aquatic Chronic 2 H411

>= 0.25% - < 0.5% 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve

REACH No.: 01-2119475108-36, Index number: 603-014-00-0, CAS: 111-76-2, EC: 203-905-0

Xn,Xi; R20/21/22-36/38

 3.3/2 Eye Irrit. 2 H319

 3.2/2 Skin Irrit. 2 H315

 3.1/4/Oral Acute Tox. 4 H302

 3.1/4/Dermal Acute Tox. 4 H312

 3.1/4/Inhal Acute Tox. 4 H332

>= 0.1% - < 0.25% ethanol; ethyl alcohol

REACH No.: 01-2119457610-43, Index number: 603-002-00-5, CAS: 64-17-5, EC: 200-578-6


F; R11

 2.6/2 Flam. Liq. 2 H225

>= 0.1% - < 0.25% 2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime

REACH No.: 01-2119539477-28, Index number: 616-014-00-0, CAS: 96-29-7, EC: 202-496-6

Carc. Cat. 3,Xn,Xi; R21-40-41-43

 3.6/2 Carc. 2 H351

 3.3/1 Eye Dam. 1 H318


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

 3.1/4/Dermal Acute Tox. 4 H312

664 ppm alkyl polyglycol ether phosphate compound

CAS: 164383-18-0


Xi,N; R36/38-51/53

 3.2/2 Skin Irrit. 2 H315

 3.3/2 Eye Irrit. 2 H319


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 4.1/C2 Aquatic Chronic 2 H411

265 ppm propan-2-ol; isopropyl alcohol; isopropanol

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

60 ppm 2-methylpropan-1-ol; iso-butanol

REACH No.: 01-2119484609-23, Index number: 603-108-00-1, CAS: 78-83-1, EC: 201-148-0
Xi; R10-37/38-41-67

 2.6/3 Flam. Liq. 3 H226

 3.8/3 STOT SE 3 H335

 3.2/2 Skin Irrit. 2 H315

 3.3/1 Eye Dam. 1 H318

 3.8/3 STOT SE 3 H336

60 ppm 2,6-dimethylheptan-4-one; di-isobutyl ketone

REACH No.: 01-2119474441-41, Index number: 606-005-00-X, CAS: 108-83-8, EC:
203-620-1


Xi; R10-37

 2.6/3 Flam. Liq. 3 H226

 3.8/3 STOT SE 3 H335

22 ppm butan-1-ol; n-butanol

REACH No.: 01-2119484630-38, Index number: 603-004-00-6, CAS: 71-36-3, EC: 200-751-6
Xn,Xi; R10-22-37/38-41-67


 2.6/3 Flam. Liq. 3 H226

 3.8/3 STOT SE 3 H335

 3.2/2 Skin Irrit. 2 H315

 3.3/1 Eye Dam. 1 H318

 3.8/3 STOT SE 3 H336

 3.1/4/Oral Acute Tox. 4 H302

*DECLK: Substance classified accordingly to Note K of the Annex I of directive 67/548/EEC. The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0,1% w/w of 1,3-butadiene.

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SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath).

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:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

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).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO₂ or Dry chemical fire extinguisher.

In case of fire, use CO₂, dry chemical powder, foam fire extinguishers.

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

The heat provokes an increase of the pressure inside the container with danger of burst. In case of fire the aerosols bursting can be projected to distance with violence, with risk of propagation of the fire.

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.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

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Use appropriate respiratory protection.

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.

Use localized ventilation system.

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

Always keep in a well ventilated place.

Vapours are more weighty than air. Vapours may form explosive mixture with air.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Petroleum gases, liquefied, sweetened; Hydrocarbons, C3-4 - CAS: 68476-40-4

TLV TWA - 1900 mg/m³ (800 ppm)

xylene - CAS: 1330-20-7

EU - LTE(8h): 221 mg/m³, 50 ppm - STE: 442 mg/m³, 100 ppm - Notes: Bold-type:

Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 100 ppm, 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

n-butyl acetate - CAS: 123-86-4

ACGIH, 150 ppm, 200 ppm - Notes: Eye and URT irr

acetone; propan-2-one; propanone - CAS: 67-64-1

EU - LTE(8h): 1210 mg/m³, 500 ppm - Notes: Bold-type: Indicative Occupational

Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 500 ppm, 750 ppm - Notes: (A4), BEI - (URT and eye irr, CNS impair, hematologic eff)

ethyl acetate - CAS: 141-78-6

ACGIH, 400 ppm - Notes: URT and eye irr

sec-butyl acetate; - CAS: 110-19-0

ACGIH, 150 ppm - Notes: Eye and URT irr

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ethylbenzene - CAS: 100-41-4

EU - LTE(8h): 442 mg/m³, 100 ppm - STE: 884 mg/m³, 200 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 20 ppm - Notes: A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

EU - LTE(8h): 275 mg/m³, 50 ppm - STE: 550 mg/m³, 100 ppm - Notes: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

EU - LTE(8h): 98 mg/m³, 20 ppm - STE: 246 mg/m³, 50 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH, 20 ppm - Notes: A3, BEI - Eye and URT irr

ethanol; ethyl alcohol - CAS: 64-17-5

ACGIH, 1000 ppm - Notes: A3 - URT irr

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

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

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

ACGIH, 50 ppm - Notes: Skin and eye irr

2,6-dimethylheptan-4-one; di-isobutyl ketone - CAS: 108-83-8

ACGIH, 25 ppm - Notes: URT and eye irr

butan-1-ol; n-butanol - CAS: 71-36-3

ACGIH, 20 ppm - Notes: Eye and URT irr

DNEL Exposure Limit Values

xylene - CAS: 1330-20-7

Worker Professional: 289 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 180 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 77 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 108 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 14.8 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

n-butyl acetate - CAS: 123-86-4

Worker Professional: 102.34 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 960 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 960 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 480 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 480 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 859.7 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Consumer: 859.7 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Consumer: 102.34 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

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acetone; propan-2-one; propanone - CAS: 67-64-1

Worker Professional: 186 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 2420 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 1210 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 62 mg/kg - Exposure: Human Oral - Frequency: Long Term, local effects

Consumer: 62 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 200 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

ethyl acetate - CAS: 141-78-6

Worker Professional: 734 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 1468 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term (acute)

Worker Professional: 734 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 63 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 367 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 734 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term (acute)

Consumer: 367 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 37 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 4.5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

sec-butyl acetate; - CAS: 110-19-0

Worker Professional: 480 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 960 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term (acute)

Worker Professional: 480 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 102.34 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 859.7 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term (acute)

Consumer: 102.34 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

ethylbenzene - CAS: 100-41-4

Worker Professional: 77 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 293 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term (acute)

Worker Professional: 180 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 15 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

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Worker Professional: 275 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 153.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 33 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 54.8 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 1.67 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Worker Professional: 330 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 44 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 71 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

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

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

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

Worker Professional: 75 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 98 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 38 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 49 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 3.2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

ethanol; ethyl alcohol - CAS: 64-17-5

Worker Professional: 950 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 343 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 114 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 206 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 87 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Worker Professional: 500 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 888 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 89 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 319 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

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

butan-1-ol; n-butanol - CAS: 71-36-3

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Worker Professional: 310 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 55 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 3.125 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

N.A.

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:

Use adequate protective respiratory equipment.

Thermal Hazards:

None

Environmental exposure controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour:	Aerosol
Odour:	Characteristic
Odour threshold:	N.A.
pH:	N.A.
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Gas flammability:	< 60 °C
Upper/lower flammability or explosive limits:	1.8 ÷ 9.5 % Vol.
Vapour density:	>1 (air=1)
Flash point:	< 0 °C
Evaporation rate:	N.A.
Vapour pressure:	2.7 bar +/- 0.5 20 °C
Deformation Pressure :	15 bar
Explosion Pressure :	16 ÷ 20 bar
Relative density:	0.95 +/- 0.05
Solubility in water:	Partially soluble
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	>400 °C
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.

9.2. Other information

Volatile organic compounds - VOCs = 560 g/l

Miscibility: N.A.

Fat Solubility: N.A.

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Conductivity: N.A.
Substance Groups relevant properties N.A.

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
Avoid contact with combustible materials. The product could catch fire.
- 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:

xylene - CAS: 1330-20-7

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 20 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 5627 mg/kg

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

n-butyl acetate - CAS: 123-86-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 10760 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 21.1 mg/l - Duration: 4h

acetone; propan-2-one; propanone - CAS: 67-64-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5800 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 20000 mg/kg

ethyl acetate - CAS: 141-78-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 11.3 ml/kg

Test: LD50 - Route: Skin - Species: Rabbit > 20000 mg/kg - Duration: 48h

sec-butyl acetate; - CAS: 110-19-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 13413 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 30 mg/l - Duration: 4h

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

ethylbenzene - CAS: 100-41-4

a) acute toxicity:

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

Test: LD50 - Route: Oral - Species: Rat = 3500 mg/kg

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) acute toxicity:

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

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

a) acute toxicity:

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- Test: LC50 - Route: Inhalation - Species: Rat = 450 ppm - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat = 1746 mg/kg
ethanol; ethyl alcohol - CAS: 64-17-5
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 1187 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 87.5 mg/l
Test: LD50 - Route: Skin - Species: Rabbit = 17100 mg/kg
propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 5.84 g/kg
Test: LD50 - Route: Skin - Species: Rabbit = 16.4 ml/kg
butan-1-ol; n-butanol - CAS: 71-36-3
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 4360 mg/kg
Test: LD50 - Route: Skin - Species: Rat = 3430 mg/kg

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.

SECTION 12: Ecological information

12.1. Toxicity

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

WGK: 2

Petroleum gases, liquefied, sweetened; Hydrocarbons, C3-4 - CAS: 68476-40-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 24.11 mg/l - Duration h: 96

Endpoint: LC50 - Species: Daphnia = 14.22 mg/l - Duration h: 48

xylene - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24

Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96

Endpoint: NOEC - Species: Algae = 0.44 mg/l - Duration h: 73

Endpoint: NOEC - Species: Daphnia = 1.57 mg/l - Duration h: 504

Endpoint: NOEC - Species: Fish > 1.3 mg/l - Duration h: 1344

n-butyl acetate - CAS: 123-86-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 44 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 648 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 18 mg/l - Duration h: 96

acetone; propan-2-one; propanone - CAS: 67-64-1

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Fish = 4144 mg/l - Duration h: 96

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- Endpoint: LC50 - Species: Algae = 302 mg/l - Duration h: 96
Endpoint: LC50 - Species: Fish = 4042 mg/l - Duration h: 336
Endpoint: LC50 - Species: Daphnia = 1680 mg/l - Duration h: 48
sec-butyl acetate; - CAS: 110-19-0
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 190 mg/l - Duration h: 48
Endpoint: EC50 - Species: Daphnia = 168 mg/l - Duration h: 24
Endpoint: EC50 - Species: Algae = 370 mg/l - Duration h: 72
ethylbenzene - CAS: 100-41-4
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 2.93 mg/l - Duration h: 48
Endpoint: LC50 - Species: Fish = 9.1 mg/l - Duration h: 96
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 161 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 1000 mg/l - Duration h: 24
Endpoint: NOEC - Species: Algae > 1000 mg/l - Duration h: 72
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 1550 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 911 mg/l - Duration h: 72
Endpoint: LC50 - Species: Fish = 1474 mg/l - Duration h: 96
ethanol; ethyl alcohol - CAS: 64-17-5
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 13000 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 23500 mg/l - Duration h: 24
Endpoint: EC50 - Species: Algae = 28440 mg/l
propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 10000 mg/l - Duration h: 96
- 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: 1950
IATA-Un number: 1950
IMDG-Un number: 1950
- 14.2. UN proper shipping name
ADR-Shipping Name: AEROSOLS

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IATA-Technical name:	AEROSOLS, flammable
IMDG-Technical name:	AEROSOLS
14.3. Transport hazard class(es)	
ADR-Class:	2 - 5F
ADR-Label:	2.1
IATA-Class:	2.1
IATA-Label:	2.1
IMDG-Class:	2.1
14.4. Packing group	
ADR-Packing Group:	-
IATA-Packing group:	-
IMDG-Packing group:	-
14.5. Environmental hazards	
14.6. Special precautions for user	
ADR-Tunnel Restriction Code:	D
ADR-Limited Quantity (LQ):	1 L
IATA-Passenger Aircraft:	Forbidden
IATA-Cargo Aircraft:	203
IMDG-Technical name:	AEROSOLS
14.7. Transport in bulk according to Annex II of MARPOL73/78 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. 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

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)

Provisions related to directives 82/501/EC(Seveso), 96/82/EC(Seveso II):
N.A.

- 15.2. Chemical safety assessment
No

SECTION 16: Other information

Full text of phrases referred to in Section 3:

R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.

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R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R21 Harmful in contact with skin.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R36/38 Irritating to eyes and skin.
R37 Irritating to respiratory system.
R37/38 Irritating to respiratory system and skin.
R38 Irritating to skin.
R40 Limited evidence of a carcinogenic effect.
R41 Risk of serious damage to eyes.
R43 May cause sensitization by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.
H302 Harmful if swallowed.
H351 Suspected of causing cancer.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

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.

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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.