Safety Data Sheet
BETA CRIL 2K THINNER

Safety Data Sheet dated 20/9/2017, version 3

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

1.1. Product identifier
Mixture identification:
Trade name: BETA CRIL 2K THINNER
Trade code: SDS CRIL (BETANR25 / BETANR1)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Thinner for car refinish varnish
Uses advised against:
All uses not included in the recommended uses

1.3. Details of the supplier of the safety data sheet
BETA COLOR SRL
Via Monte Sabotino, 71
20099 Sesto San Giovanni (MI) - Italy
Tel: +39 02 2426193
Fax: +39 02 22476324

Competent person responsible for the safety data sheet:
betacolor.milano@gmail.com

1.4 Details of importer:
Sydney Automotive Paint and Equipment
Unit A3, 366 Edgar Street
Condell Park
NSW 2200
Australia
Tel: +61 2 9772 9000
Email: reception@sape.com.au

1.5. Emergency Information:
Emergency telephone: AU Poison Information Centre 13 11 26
General medical information: +61 2 9772 9000 (Mon to Fri, 08:00-16:00 AEST)
Transport information: +61 2 9772 9000 (Mon to Fri, 08:00-16:00 AEST)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture EC regulation criteria 1272/2008 (CLP)
Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
Warning, Skin Irrit. 2, Causes skin irritation.
Warning, Eye Irrit. 2, Causes serious eye irritation.
Warning, STOT SE 3, May cause respiratory irritation.
Warning, STOT SE 3, May cause drowsiness or dizziness.
Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.
Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements

Symbols:

Danger

Hazard statements:

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P312 Call a POISON CENTER/ doctor/if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P370+P378 In case of fire: Use CO_2 or powder extinguisher to extinguish.

Special Provisions:

None

Contents

n-butyl acetate
ethyl acetate
aromatic hydrocarbons, C8; light oil redistillate, high boiling
xylene

Special provisions according to Annex XVII of REACH and subsequent amendments:

Restricted to professional users.

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:

Qty	Name	Ident. Number	Classification
>= 30% - < 40%	xylene	Index number: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7 REACH No.: 01-2119488216-32XX	2.6/3 Flam. Liq. 3 H226 3.1/4/Inhal Acute Tox. 4 H332 3.1/4/Dermal Acute Tox. 4 H312 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H335 3.2/2 Skin Irrit. 2 H315 3.9/2 STOT RE 2 H373 3.10/1 Asp. Tox. 1 H304
>= 30% - < 40%	n-butyl acetate	Index number: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 REACH No.: 01-2119485493-29XX	2.6/3 Flam. Liq. 3 H226 3.8/3 STOT SE 3 H336 EUH066
>= 12.5% - < 15%	ethyl acetate	Index number: 607-022-00-5 CAS: 141-78-6 EC: 205-500-4 REACH No.: 01-2119475103-46XX	2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H336 EUH066
>= 12.5% - < 15%	2-methoxy-1-methylethyl acetate	Index number: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 REACH No.: 01-2119475791-29XX	2.6/3 Flam. Liq. 3 H226

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 of 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 under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
In case of Inhalation:
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: Use CO_2 or powder extinguisher to extinguish.
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.

HAZCHEM: 3Y

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.
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.
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 at below 20 °C.
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
xylene - CAS: 1330-20-7
- OEL Type: OEL - LTE(8h): 442 mg/m3, 100 ppm - STE(): 884 mg/m3, 200 ppm - Notes: UE - SKIN
- OEL Type: ACGIH - LTE: 436 mg/m3, 100 ppm - STE: 651 mg/m3, 150 ppm - Notes: A4, IBE
OEL 8h - 221 mg/m3 - 50 ppm
OEL short - 442 mg/m3 - 100 ppm

n-butyl acetate - CAS: 123-86-4
- OEL Type: ACGIH - LTE(8h): 713 mg/m3, 150 ppm - STE: 959 mg/m3, 200 ppm - Notes: ACGIH 2011
- OEL Type: 06 - LTE: 710 mg/m3, 150 ppm - STE: 940 mg/m3, 200 ppm - Notes: EU

ethyl acetate - CAS: 141-78-6
- OEL Type: 06 - LTE(8h): 1441 mg/m3, 400 ppm
TLV TWA - 400 ppm - 1441,31 mg/m3

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
- OEL Type: EU - LTE(8h): 275 mg/m3, 50 ppm - STE: 550 mg/m3, 100 ppm - Notes: SKIN
- OEL Type: 05 - LTE: 275 mg/m3
- OEL Type: OSHA - LTE(8h): 275 mg/m3, 50 ppm

DNEL Exposure Limit Values
xylene - CAS: 1330-20-7

Worker Industry: 289 03 - Worker Professional: 289 03 - Consumer: 174 03 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 180 mg/kg - Worker Professional: 180 mg/kg - Consumer: 108 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: bw/day
Worker Industry: 77 03 - Worker Professional: 77 03 - Consumer: 14.8 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: BW/DAY
Worker Industry: 289 03 - Worker Professional: 289 03 - Consumer: 174 03 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 174 03 - Exposure: Human Dermal - Frequency: Short Term, local effects
Worker Industry: 77 03 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Industry: 221 03 - Exposure: Human Inhalation - Frequency: Long Term (repeated)
Worker Industry: 221 03 - Consumer: 65.3 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 3182 mg/kg - Consumer: 1872 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 12.5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: bw/day

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

Worker Industry: 480 03 - Worker Professional: 480 03 - Consumer: 102.34 03 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Industry: 960 03 - Worker Professional: 960 03 - Consumer: 859.7 03 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 960 03 - Worker Professional: 960 03 - Consumer: 859.7 03 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 480 03 - Worker Professional: 480 03 - Consumer: 102.34 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 3.4 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Industry: 48 03 - Consumer: 12 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 7 mg/kg - Consumer: 3.4 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

ethyl acetate - CAS: 141-78-6

Consumer: 4.5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: MG/KG BW
Worker Industry: 1468 03 - Worker Professional: 1468 03 - Consumer: 734 03 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 1468 03 - Worker Professional: 1468 03 - Consumer: 734 03 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 734 03 - Worker Professional: 734 03 - Consumer: 367 03 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Industry: 734 03 - Worker Professional: 734 03 - Consumer: 367 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 63 mg/kg - Worker Professional: 63 mg/kg - Consumer: 37 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: MG/KG BW

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

Worker Industry: 153.5 mg/kg - Worker Professional: 153.5 mg/kg - Consumer: 54.8 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: BW/DAY
Worker Industry: 275 03 - Worker Professional: 275 03 - Consumer: 33 03 - Exposure:

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

PNEC Exposure Limit Values
- xylene - CAS: 1330-20-7
  - Target: Microorganisms in sewage treatments - Value: 6.58 mg/l - Notes: STP
  - Target: Marine water - Value: 0.327 mg/l
  - Target: 10 - Value: 0.327 mg/l
  - Target: Freshwater sediments - Value: 12.46 mg/kg
  - Target: Marine water sediments - Value: 12.46 mg/kg
  - Target: 09 - Value: 2.31 mg/kg
  - Target: Fresh Water - Value: 0.327 mg/l
  - Target: Soil (agricultural) - Value: 2.31 mg/kg
  - Target: Microorganisms in sewage treatments - Value: 6.58 mg/l
- n-butyl acetate - CAS: 123-86-4
  - Target: 11 - Value: 35.6 mg/l - Notes: STP
  - Target: Fresh Water - Value: 0.18 mg/l
  - Target: Marine water - Value: 0.018 mg/l
  - Target: 10 - Value: 0.36 mg/l
  - Target: Freshwater sediments - Value: 0.981 mg/kg
  - Target: Marine water sediments - Value: 0.09 mg/kg
  - Target: 09 - Value: 0.0903 mg/kg
- ethyl acetate - CAS: 141-78-6
  - Target: Soil (agricultural) - Value: 0.24 mg/kg
  - Target: Fresh Water - Value: 0.26 mg/l
  - Target: Marine water - Value: 0.026 mg/l
  - Target: Freshwater sediments - Value: 1.25 mg/kg
  - Target: Marine water sediments - Value: 0.125 mg/kg
  - Target: Microorganisms in sewage treatments - Value: 650 mg/l
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
  - Target: Fresh Water - Value: 0.635 mg/l
  - Target: Marine water - Value: 0.0635 mg/l
  - Target: 08 - Value: 6.35 mg/l
  - Target: 10 - Value: 6.35 mg/l
  - Target: Microorganisms in sewage treatments - Value: 100 mg/l
  - Target: Freshwater sediments - Value: 3.29 mg/kg
  - Target: Marine water sediments - Value: 0.329 mg/kg
  - Target: Soil (agricultural) - Value: 0.29 mg/kg

8.2. Exposure controls

Eye protection:
The use of hermetic protective glasses (ref. EN 166) is recommended

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 cat. III (ref. EN 374)

Respiratory protection:
Use respiratory protection where ventilation is insufficient or exposure is prolonged.
Use adequate protective respiratory equipment.

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:	colorless liquid	--	--
Odour:	of solvent	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash point:	25 ° 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:	N.A.	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n- octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
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.	--	--

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: LD50 - Route: Oral - Species: Rat > 3500 mg/kg - Source: Direttiva 67/548/CEE, Allegato V,B.1.
Test: LD50 - Route: Skin - Species: Rabbit > 4200 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat 6350 ppm - Duration: 4h
Test: LD50 - Route: Oral - Species: Mouse = 5627 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 ml/kg
Test: LC50 - Route: Inhalation - Species: Rat > 20 mg/l - Duration: 4h
Test: LC50 - Route: Inhalation Vapour - Species: Rat = 5000 ppm - Duration: 4h
Test: LD50 - Route: Skin - Species: Rabbit > 1700 mg/kg
Test: LD50 - Route: Oral - Species: Rat 4300 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg
Test: LD50 - Route: Oral 50 mg/kg - Notes: uomo
Test: LC50 - Route: Inhalation 10000 ppm - Duration: 6H - Notes: uomo
Test: LD50 - Route: Skin - Species: 18206 > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rat 5627 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Positive

c) serious eye damage/irritation:

Test: Eye Irritant - Route: Inhalation Positive 200 ppm

d) respiratory or skin sensitisation:

Test: Respiratory Tract Irritant - Route: Inhalation Positive 200 ppm
Test: Respiratory Tract Irritant Positive

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

a) acute toxicity:

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 23.4 mg/l - Duration: 4h - Notes: OCSE 403
Test: LD50 - Route: Oral - Species: Rat > 10000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg
Test: LD50 - Route: Oral - Species: Rat > 6400 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 23.4 mg/l - Duration: 4h
Test: Skin Irritant Negative

Test: Respiratory Tract Irritant Positive
Test: LC50 - Route: Inhalation - Species: Rat > 2000 ppm - Duration: 4h
Test: Eye Irritant - Route: Inhalation Positive 3300 ppm
b) skin corrosion/irritation:
Test: Skin Corrosive Negative - Source: OECD 404
e) germ cell mutagenicity:
Test: Mutagenesis Negative - Notes: TEST DI AMES
f) carcinogenicity:
Test: Carcinogenicity Negative - Notes: TEST DI AMES
g) reproductive toxicity:
Test: Reproductive Toxicity Negative - Notes: TEST DI AMES
Test: NOAEC - Route: Inhalation - Species: Rat 9640 mg/m3 - Source: OECD 416, STUDIO SU 2 GENERAZIONI
ethyl acetate - CAS: 141-78-6
a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit > 20000 mg/kg - Notes: bw
Test: LC0 - Route: Inhalation - Species: Rat > 6000 ppm - Duration: 6H
Test: LD50 - Route: Oral - Species: Rabbit 4934 mg/kg - Notes: OECD 401
Test: LC50 - Route: Inhalation - Species: Rat 22.5 ppm - Duration: 4h
Test: LC100 - Route: Inhalation - Species: Rat 22.5 ppm - Duration: 6H
Test: LD50 - Route: Oral - Species: Mouse = 4100 mg/kg
Test: LD50 - Route: Oral - Species: Rat 5620 mg/kg
Test: LC50 - Route: Inhalation - Species: 18206 1600 mg/kg
b) skin corrosion/irritation:
Test: Skin Irritant - Route: Skin - Species: Rat Positive
c) serious eyedamage/irritation:
Test: Eye Irritant - Species: Rabbit Positive
h) STOT-single exposure:
Test: stot Positive
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 8532 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 23.8 mg/l - Duration: 6H
Test: LC50 - Route: Inhalation - Species: Rat > 10.6 mg/l - Duration: 6H
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/l
b) skin corrosion/irritation:
Test: Eye Irritant Positive
c) serious eye damage/irritation:
Test: Eye Irritant - Route: Inhalation Vapour Positive
e) germ cell mutagenicity:
Test: ames Negative - Source: OECD TG 471
g) reproductive toxicity:
Test: noael - Route: Oral - Species: Rat 1000 mg/kg - Notes: BW/DAY
Test: noael - Route: Inhalation - Species: Rat 300 ppm - Duration: 6H - Source: OECD TG 414
h) STOT-single exposure:
Test: Respiratory Tract Irritant - Route: Inhalation Positive
i) STOT-repeated exposure:
Test: 18201.sistema nerv c - Route: Inhalation Positive
xylene - CAS: 1330-20-7
LD50 (RAT) ORAL: 5000 mg/kg

ethyl acetate - CAS: 141-78-6
LD50 (RABBIT) ORAL: 4935 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.

xylene - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24 - Notes: Daphnia magna
Endpoint: ErC50 - Species: Algae = 4.36 mg/l - Duration h: 73 - Notes: Pseudokirchneriella subcapitata
Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss
Endpoint: NOEL - Species: Algae = 0.44 mg/l - Duration h: 73 - Notes: Pseudokirchneriella subcapitata
Endpoint: LC50 - Species: Fish Positive 13.5-17.3 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss
Endpoint: LC50 - Species: Fish = 13.4 mg/l - Duration h: 96 - Notes: Pimephales promelas
Endpoint: LC50 - Species: Fish > 780 mg/l - Duration h: 96 - Notes: Cyprinus carpio
Endpoint: LC50 - Species: Fish = 19 mg/l - Duration h: 96 - Notes: Lepomis macrochirus
Endpoint: LC50 - Species: Fish Positive 2.661-4.093 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss
Endpoint: LC50 - Species: Fish = 780 mg/l - Duration h: 96 - Notes: Cyprinus carpio
Endpoint: LC50 - Species: Fish Positive 7.711-9.591 mg/l - Duration h: 96 - Notes: Lepomis macrochirus
Endpoint: LC50 - Species: Fish Positive 30.26-40.75 mg/l - Duration h: 96 - Notes: Poecilia reticulata
Endpoint: LC50 - Species: Fish = 19 mg/l - Duration h: 96 - Notes: Lepomis macrochirus
Endpoint: LC50 - Species: Fish Positive 23.53-29.97 mg/l - Duration h: 96 - Notes: Pimephales promelas
Endpoint: LC50 - Species: Daphnia = 0.6 mg/l - Duration h: 48 - Notes: Gammarus lacustris
Endpoint: EC50 - Species: Daphnia = 3.82 mg/l - Duration h: 48 - Notes: Water flea
Endpoint: EC50 - Species: Daphnia 81 mg/l - Duration h: 24 - Notes: Daphnia magna
Endpoint: EC50 - Species: Algae 110 mg/l - Duration h: 48 - Notes: Desmodesmus subspicatus
Endpoint: LC50 - Species: Fish = 4093 mg/l - Duration h: 96
Endpoint: LC50 - Species: Fish > 1 mg/l - Duration h: 96
Endpoint: EC50 - Species: Algae = 11 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata
Endpoint: EC50 - Species: Algae 2.2 mg/l - Duration h: 73 - Notes: Selenastrum capricornutum

b) Aquatic chronic toxicity:

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

magna
Endpoint: NOEL - Species: Fish > 1.3 mg/l - Duration h: 1344 - Notes: Oncorhynchus mykiss
c) Bacteria toxicity:
Endpoint: EC50 - Species: fango attivo 1000 mg/l - Duration h: 15

n-butyl acetate - CAS: 123-86-4
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 44 mg/l - Duration h: 48 - Notes: Daphnia magna
Endpoint: EC20 - Species: fango attivo > 1000 mg/l - Duration h: 0.5 - Notes: OECD TG 209
Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 96 - Notes: Selenastrum capricornutum
Endpoint: NOEC - Species: Algae > 1000 mg/l - Duration h: 96 - Notes: Selenastrum capricornutum
Endpoint: EC50 - Species: Algae = 674.7 mg/l - Duration h: 72 - Notes: Desmodesmus subspicatus
Endpoint: LC50 - Species: Fish = 18 mg/l - Duration h: 96 - Notes: Pimephales promelas
Endpoint: LC50 - Species: Fish 62 mg/l - Duration h: 96 - Notes: Brachydanio rerio
Endpoint: EC50 - Species: Algae = 675 mg/l - Duration h: 72 - Notes: Desmodesmus subspicatus
Endpoint: LC50 - Species: Fish = 100 mg/l - Duration h: 96 - Notes: Lepomis macrochirus
Endpoint: LC50 - Species: Fish = 62 mg/l - Duration h: 96 - Notes: Leociscus idus
Endpoint: EC50 - Species: Daphnia = 72.8 mg/l - Duration h: 24 - Notes: Daphnia magna
Endpoint: EC50 - Species: Daphnia 10-100 mg/l - Duration h: 48
Endpoint: IC50 - Species: Algae 675 mg/l - Duration h: 72
Endpoint: LC50 - Species: Fish 18 mg/l - Duration h: 96
Endpoint: LC50 - Species: Daphnia 32 mg/l - Duration h: 48 - Notes: Crostacei, artemia salina, Nauplii - mortalità
Endpoint: LC50 - Species: Fish 62 mg/l - Duration h: 96 - Notes: Danio rerio - mortalità
Endpoint: NOEC - Species: Algae 200 mg/l - Duration h: 72

ethyl acetate - CAS: 141-78-6
a) Aquatic acute toxicity:
Endpoint: NOEC - Species: Algae > 100 mg/l - Duration h: 72 - Notes: Scenedesmus subspicatus, Desmodesmus supspicatus
Endpoint: LC50 - Species: Fish 230 mg/l - Duration h: 96 - Notes: Pimephales promelas (OECD TG 203)
Endpoint: EC50 - Species: Daphnia 5600 mg/l - Duration h: 48 - Notes: Scenedesmus subspicatus
Endpoint: EC50 - Species: Daphnia = 260 mg/l - Duration h: 48 - Notes: Daphnia pulex
Endpoint: IC50 - Species: Algae = 5600 mg/l - Duration h: 48 - Notes: Desmodesmus subspicatus
Endpoint: EC20 - Species: Daphnia 3090 mg/l - Duration h: 48 - Notes: Daphnia magna
Endpoint: LC50 - Species: Algae = 5600 mg/l - Duration h: 48
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: Brachydanio rerio
Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: Daphnia magna
Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 - Notes: Desmodesmus supspicatus
Endpoint: EC50 - Species: Daphnia 165 mg/l - Duration h: 48 - Notes: Daphnia magna
Endpoint: EC50 - Species: batteri = 5870 mg/l - Notes: 15 min - Photobacterium phosphoreum
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia 2.4 mg/l - Notes: 21 days; Daphnia magna, Daphnia pulex
c) Bacteria toxicity:
Endpoint: NOEC - Species: microorganismi 650 mg/l - Duration h: 16 - Notes: Pseudomonas Putida

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
a) Aquatic acute toxicity:
Endpoint: NOEC - Species: Daphnia 278 mg/l - Duration h: 48 - Notes: daphnia magna
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: oryzias latipes - OECD Guide Line 203
Endpoint: EC50 - Species: Daphnia 373 mg/l - Duration h: 48 - Notes: daphnia magna
Endpoint: LC50 - Species: Fish = 161 mg/l - Duration h: 96 - Notes: Pimephales promelas
Endpoint: EC50 - Species: Daphnia > 400 mg/l - Duration h: 48 - Notes: Daphnia magna
Endpoint: ErC50 - Species: Algae > 1000 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata - OECD TG 201

Endpoint: LC50 - Species: Fish 100-180 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss
Endpoint: LC50 - Species: Daphnia 408-500 mg/l - Duration h: 48 - Notes: Daphnia magna
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish 47.5 mg/l - Duration h: 336 - Notes: Oncorhynchus mykiss and Oryzias latipes
Endpoint: NOEC - Species: Daphnia > 100 mg/l - Duration h: 504 - Notes: Daphnia magna - OECD TG 211

12.2. Persistence and degradability
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:	1263
IATA-Un number:	1263
IMDG-Un number:	1263

14.2. UN proper shipping name

ADR-Shipping Name:	Paints or paint related materials
IATA-Technical name:	Paints or paint related materials
IMDG-Technical name:	Paints or paint related materials

14.3. Transport hazard class(es)

ADR-Class:	3
IATA-Class:	3
IMDG-Class:	3

14.4. Packing group

ADR-Packing Group:	III
IATA-Packing group:	III
IMDG-Packing group:	III

14.5. Environmental hazards

Marine pollutant:	Marine pollutant

14.6. Special precautions for user

Rail (RID):	1263
IMDG-Technical name:	Paints or paint related materials

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code N.A

14.8 Hazchem 3Y

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:

Restrictions related to the product:
Restriction 3
Restriction 40

Restrictions related to the substances contained:
Restriction 30

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:
H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H312 Harmful in contact with skin.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H315 Causes skin irritation.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.
H225 Highly flammable liquid and vapour.

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
SECTION 11: Toxicological information
SECTION 12: Ecological 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
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 8hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.