

Safety Data Sheet

BETA MS SR 2K CLEARCOAT



Safety Data Sheet dated 20/9/2017, version 2

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

1.1. Product identifier

Mixture identification:

Trade name: BETA MS SR 2K CLEARCOAT

Trade code: SDS MS (BETAMSC5)

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

Recommended use:

Car refinishing

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)

- ⚠ Warning, Flam. Liq. 3, 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 RE 2, May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects: No other hazards

Safety Data Sheet

BETA MS SR 2K CLEARCOAT



2.2. Label elements

Symbols:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273 Avoid release to the environment.

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 CO2 or powder extinguisher to extinguish.

Special Provisions:

None

Contents:

xylene

aromatic hydrocarbons, C8; light oil redistillate

reactive mixture of ethylbenzene, m-xylene and p-xylene

neodecanoate of 2,3-epoxypropyl: may produce an allergic reaction.

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate: may produce an allergic reaction.

reaction mass of alpha-3-propionyl-omega-hydroxypoly and alpha-3-propionyl-omega: may produce an allergic reaction.

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

Safety Data Sheet
BETA MS SR 2K CLEARCOAT



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
>= 20% - < 25%	xylene	Index number: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7 REACH No.: 01-2119488216-32XX	<ul style="list-style-type: none"> ⚠ 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
>= 15% - < 20%	2-methoxy-1-methylethyl acetate	Index number: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 REACH No.: 01-2119475791-29XX	<ul style="list-style-type: none"> ⚠ 2.6/3 Flam. Liq. 3 H226
>= 7% - < 10%	n-butyl acetate	Index number: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 REACH No.: 01-2119485493-29XX	<ul style="list-style-type: none"> ⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.8/3 STOT SE 3 H336 EUH066
>= 5% - < 7%	ethylbenzene	Index number: 601-023-00-4 CAS: 100-41-4 EC: 202-849-4 REACH No.: 01-2119892111-44XX	<ul style="list-style-type: none"> ⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.1/4/Inhal Acute Tox. 4 H332 ⚠ 3.9/2 STOT RE 2 H373 ⚠ 3.10/1 Asp. Tox. 1 H304

Safety Data Sheet
BETA MS SR 2K CLEARCOAT



>= 0.5% - < 1%	neodecanoate of 2,3-epoxypropyl	CAS: 26761-45-5 EC: 247-979-2 REACH No.: 01-2119431597-33XX	⚠ 3.4.2/1-1A-1B Skin Sens. 1,1A, 1B H317 3.5/2 Muta. 2 H341 4.1/C2 Aquatic Chronic 2 H411
>= 0.25% - < 0.5%	reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	EC: 915-687-0 REACH No.: 01-2119491304-40-0002	⚠ 4.1/C1 Aquatic Chronic 1 H410 ⚠ 3.4.2/1 Skin Sens. 1 H317
>= 0.1% - < 0.25%	toluene	Index number: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 REACH No.: 01-2119471310-51XX	⚠ 2.6/2 Flam. Liq. 2 H225 3.2/2 Skin Irrit. 2 H315 3.9/2 STOT RE 2 H373 3.10/1 Asp. Tox. 1 H304 3.8/3 STOT SE 3 H336 3.7/2 Repr. 2 H361d
>= 0.1% - < 0.25%	α-3-propionyl-omega-hydroxypoly and α-3-propionyl-omega	CAS: 104810-48-2 REACH No.: 01-0000015075-76-0013	⚠ 3.4.2/1 Skin Sens. 1 H317 ⚠ 4.1/C2 Aquatic Chronic 2 H411

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 under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Safety Data Sheet

BETA MS SR 2K CLEARCOAT



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 CO₂ 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 and heat sources. Avoid direct exposure to sunlight.

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, 200ppm -

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

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

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

ethylbenzene - CAS: 100-41-4

- OEL Type: 04 - LTE: 192 mg/m³, 50 ppm - STE: 384 mg/m³, 100 ppm - Notes: SKIN

- OEL Type: 06 - LTE: 87 mg/m³, 20 ppm - Notes: A3, IBE

- OEL Type: ACGIH - LTE: 434 mg/m³, 100 ppm - STE: 543 mg/m³, 125 ppm

- OEL Type: EU - LTE: 442 mg/m³, 100 ppm - STE: 884 mg/m³, 200 ppm - Notes: skin

Safety Data Sheet

BETA MS SR 2K CLEARCOAT



- toluene - CAS: 108-88-3
- OEL Type: EU - LTE(8h): 192 mg/m³, 50 ppm - STE(): 384 mg/m³, 100 ppm - Notes: skin and vapours/aerosol
- OEL Type: 06 - LTE(8h): 75.4 mg/m³, 20 ppm
- OEL Type: 05 - LTE: 188 mg/m³, 50 ppm
- OEL Type: OSHA - LTE(8h): 200 ppm - STE: 300 ppm
TLV TWA - 50 ppm, A4 - 188,4 mg/m³, A4 Skin
TLV STEL - A4 Skin

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

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

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

Safety Data Sheet

BETA MS SR 2K CLEARCOAT



neodecanoate of 2,3-epoxypropyl - CAS: 26761-45-5

Worker Industry: 1.4 mg/kg - Consumer: 0.7 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: GIORNO

Worker Industry: 1.965 03 - Consumer: 1 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 1.1 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: GIORNO

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate.

Worker Professional: 2.35 03 - Consumer: 0.58 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 2.5 mg/kg - Consumer: 1.25 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 1.25 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

toluene - CAS: 108-88-3

Worker Industry: 384 03 - Consumer: 226 03 - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 384 03 - Consumer: 226 03 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 192 03 - Consumer: 56.5 03 - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 192 03 - Worker Professional: 192 - Consumer: 56.5 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 384 mg/kg - Worker Professional: 384 - Consumer: 226 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: GIORNO

Consumer: 8.13 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: GIORNO

Worker Industry: 384 03 - Consumer: 226 03 - Exposure: Human Inhalation - Frequency: 07

Worker Industry: 384 03 - Consumer: 226 03 - Exposure: Human Inhalation - Frequency: 06

Worker Industry: 192 03 - Consumer: 56.5 03 - Exposure: Human Inhalation - Frequency: Long Term, local effects

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

Safety Data Sheet

BETA MS SR 2K CLEARCOAT



- 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
- 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
- neodecanoate of 2,3-epoxypropyl - CAS: 26761-45-5
Target: Fresh Water - Value: 0.0035 mg/l
Target: Marine water - Value: 0.035 mg/l
Target: 11 - Value: 50 mg/l
Target: 10 - Value: 0.035 mg/l
- reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate.
Target: Fresh Water - Value: 0.0022 mg/l
Target: Marine water - Value: 0.00022 mg/l
Target: 08 - Value: 0.009 mg/l
Target: Marine water sediments - Value: 0.11 mg/kg
Target: Soil (agricultural) - Value: 0.21 mg/kg
- toluene - CAS: 108-88-3
Target: Fresh Water - Value: 0.68 mg/l
Target: Freshwater sediments - Value: 16.39 mg/kg
Target: Soil (agricultural) - Value: 2.89 mg/kg
Target: Microorganisms in sewage treatments - Value: 13.61 mg/l
Target: Marine water - Value: 0.68 mg/l
Target: Marine water sediments - Value: 16.39 mg/kg
Target: 08 - Value: 0.68 mg/l

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.

Thermal Hazards:

None

Environmental exposure controls:

None

Safety Data Sheet
BETA MS SR 2K CLEARCOAT



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:	yellow 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:	24 ° 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.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

Safety Data Sheet

BETA MS SR 2K CLEARCOAT



Properties	Value	Method:	Notes
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
	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 eyedamage/irritation:

Test: Eye Irritant - Route: Inhalation Positive 200 ppm

Safety Data Sheet

BETA MS SR 2K CLEARCOAT



d) respiratory or skin sensitisation:

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

Test: Respiratory Tract Irritant 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

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

Safety Data Sheet

BETA MS SR 2K CLEARCOAT



ethylbenzene - CAS: 100-41-4

a) acute toxicity:

Test: Respiratory Tract Irritant - Route: Inhalation Positive

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

Test: LD50 - Route: Skin - Species: Rabbit 15354 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 17.2 mg/l - Duration: 4h

f) carcinogenicity:

Test: Carcinogenicity - Route: Inhalation Positive

neodecanoate of 2,3-epoxypropyl - CAS: 26761-45-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 9600 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 3800 mg/kg

e) germ cell mutagenicity:

Test: Mutagenesis - Species: 18203 Positive

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

a) acute toxicity:

b) Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg Test: LD50 - Route: Skin - Species: Rat > 3000 mg/kg

c) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Positive

toluene - CAS: 108-88-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 5580 mg/kg - Duration: 24H

Test: LD50 - Route: Skin - Species: Rabbit 12124 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 28.1 mg/l - Duration: 4h

Test: Eye Irritant - Route: Skin Positive

Test: Skin Irritant - Route: Skin - Species: Rabbit Positive

Test: Respiratory Tract Irritant - Route: Inhalation Positive

Test: LC50 - Route: Inhalation - Species: Mouse = 5320 ppm

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

f) carcinogenicity:

Test: NOAEC 1200 ppm - Notes: OECD TG 453

g) reproductive toxicity:

Test: NOAEC - Species: Rat 750 ppm - Notes: EPA OTS 798.4350

i) STOT-repeated exposure:

Test: NOAEC - Species: Rat 300 ppm - Notes: OECD TG 453

xylene - CAS: 1330-20-7

LD50 (RAT) ORAL: 5000 MG/KG

ethylbenzene - CAS: 100-41-4

LD50 (RAT) ORAL: 3500 MG/KG

LD50 (RAT) ORAL: 4710 MG/KG BW

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

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

Safety Data Sheet

BETA MS SR 2K CLEARCOAT



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: 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: 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

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: 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

ethylbenzene - CAS: 100-41-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae Positive 1.7-7.6 mg/l - Duration h: 96 - Notes:
Pseudokirchneriella subcapitata
Endpoint: EC50 - Species: Algae Positive 2.6-11.3 mg/l - Duration h: 72 - Notes:
Pseudokirchneriella subcapitata
Endpoint: EC50 - Species: Algae Positive 4.6 mg/l - Duration h: 72 - Notes:
Pseudokirchneriella subcapitata
Endpoint: EC50 - Species: Algae > 438 mg/l - Duration h: 96 - Notes: Pseudokirchneriella
subcapitata
Endpoint: LC50 - Species: Fish = 4.2 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss
Endpoint: LC50 - Species: Fish Positive 7.55-11 mg/l - Duration h: 96 - Notes: Pimephales
promelas
Endpoint: LC50 - Species: Fish Positive 9.1-15.6 mg/l - Duration h: 96 - Notes:
Pimephales promelas
Endpoint: LC50 - Species: Fish = 32 mg/l - Duration h: 96 - Notes: Lepomis macrochirus
Endpoint: LC50 - Species: Fish = 9.6 mg/l - Duration h: 96 - Notes: Poecilia reticulata
Endpoint: LC50 - Species: Fish Positive 11.0-18.0 mg/l - Duration h: 96 - Notes:

Safety Data Sheet

BETA MS SR 2K CLEARCOAT



Oncorhynchus mykiss

Endpoint: EC50 - Species: Daphnia Positive 1.8-2.4 mg/l - Duration h: 48 - Notes:

Daphnia magna

Endpoint: EC50 - Species: Algae = 11 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

c) Bacteria toxicity:

Endpoint: EC0 - Species: batteri 12 mg/l - Notes: Pseudomonas putida

neodecanoate of 2,3-epoxypropyl - CAS: 26761-45-5

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 3.5 mg/l - Duration h: 96 - Notes: Pseudokirchneriella subcapitata

Endpoint: LC50 - Species: Fish = 5 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: EC50 - Species: Daphnia = 4.8 mg/l - Duration h: 48 - Notes: Daphnia magna

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate...

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.9 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 10 mg/l - Duration h: 24

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia 1 mg/l - Notes: 21 days

toluene - CAS: 108-88-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 12.5 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

Endpoint: EC50 - Species: Algae > 433 mg/l - Duration h: 96 - Notes: Pseudokirchneriella subcapitata

Endpoint: LC50 - Species: Fish = 12.6 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: LC50 - Species: Fish = 28.2 mg/l - Duration h: 96 - Notes: Poecilia reticulata

Endpoint: LC50 - Species: Fish Positive 15.22-19.05 mg/l - Duration h: 96 - Notes:

Pimephales promelas

Endpoint: LC50 - Species: Fish Positive 50.87-70.34 mg/l - Duration h: 96 - Notes:

Poecilia reticulata

Endpoint: LC50 - Species: Fish Positive 11.0-15.0 mg/l - Duration h: 96 - Notes: Lepomis macrochirus

Endpoint: LC50 - Species: Fish = 54 mg/l - Duration h: 96 - Notes: Oryzias latipes

Endpoint: LC50 - Species: Fish Positive 14.1-17.16 mg/l - Duration h: 96 - Notes:

Oncorhynchus mykiss

Endpoint: LC50 - Species: Fish Positive 5.89-7.81 mg/l - Duration h: 96 - Notes:

Oncorhynchus mykiss

Endpoint: LC50 - Species: Fish = 5.8 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: EC50 - Species: Daphnia Positive 5.46-9.83 mg/l - Duration h: 48 - Notes:

Daphnia magna

Endpoint: EC50 - Species: Daphnia = 11.5 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: LC50 - Species: Fish 5.5 mg/l - Duration h: 96 - Notes: Oncorhynchus kisutch

Endpoint: EC50 - Species: Daphnia 3.78 mg/l - Duration h: 48 - Notes: Ceriodaphnia dubia

Endpoint: EC50 - Species: Algae 134 mg/l - Duration h: 3 - Notes: Chlorella vulgaris and Chlamydomonas angulosa

Endpoint: LC50 - Species: Daphnia = 3.78 mg/l - Duration h: 48 - Notes: Ceriodaphnia dubia

Endpoint: EC50 - Species: Fish = 57.68 mg/l - Duration h: 96 - Notes: Carassius auratus

Endpoint: EC50 - Species: Algae > 433 mg/l - Duration h: 96 - Notes: Selenastrum capricornutum

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish 1.4 mg/l - Duration h: 960 - Notes: Oncorhynchus kisutch

c) Bacteria toxicity:

Safety Data Sheet

BETA MS SR 2K CLEARCOAT



Endpoint: IC50 - Species: microorganismi 84 mg/l - Duration h: 24 - Notes: Nitrosomonas sp.

- 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

Safety Data Sheet

BETA MS SR 2K CLEARCOAT



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
- Restriction 48

Volatile Organic compounds - VOCs = 596 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.00

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.
H373 May cause damage to organs through prolonged or repeated exposure.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H411 Toxic to aquatic life with long lasting effects.
H410 Very toxic to aquatic life with long lasting effects.
H361d Suspected of damaging the unborn child.

Paragraphs modified from the previous revision:

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).

Safety Data Sheet

BETA MS SR 2K CLEARCOAT



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.