

## Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH)) DP-55 THIXO - DP55THIXO

Master item code: DP-55 Thixo

Safety Data Sheet date: 6/3/2024, version 1

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

#### 1.1. Product identifier

Trade name: DP-55 THIXO  
SDS code: DP55THIXO  
UFI: 5N9E-H17D-J00M-Y4UK

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

Recommended use:  
Penetrant testing

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

##### Manufacturers:

BABBCO  
15, rue des Frères Lumière Z.I. des EBISOIRES 78370 PLAISIR (France)  
Tel: +33 (0)1.30.80.81.82  
www.babbco.fr

##### Distributors:

BABBCO  
SHERWIN-BABBCO  
Tel: +33 (0)1.30.80.81.82  
www.babbco.fr

##### Competent person responsible for the safety data sheet:

e-mail: regulatoryservice@babbco.fr

#### 1.4. Emergency telephone number


France : ORFILA (INRS) +33 (0)1 45 42 59 59  
International : CHEMTEL +1-813-248-0585.


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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### EC regulation criteria 1272/2008 (CLP)

 Danger, Eye Dam. 1, Causes serious eye damage.

 Warning, Skin Sens. 1, May cause an allergic skin reaction.

 Danger, STOT RE 1, Causes damage to organs through prolonged or repeated exposure.

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

EUH066 Repeated exposure may cause skin dryness or cracking.

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

Hazard pictograms:

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Danger

Hazard statements:

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H372 Causes damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.

P310 Immediately call a POISON CENTER/doctor/...

P314 Get medical advice/attention if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains

Alcools secondaires éthoxylés (3)

Colorant rouge

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

None

### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$







## 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
$\geq 60\%$ - $< 70\%$	Naphtha (petroleum), hydrodesulfurized heavy	CAS: 64742-82-1 EC: 919-164-8	 3.10/1 Asp. Tox. 1 H304  3.9/1 STOT RE 1 H372 4.1/C3 Aquatic Chronic 3 H412
$\geq 10\%$ - $< 12.5\%$	Alcools secondaires éthoxylés (3)	CAS: 68131-40-8	 3.3/1 Eye Dam. 1 H318
$\geq 10\%$ - $< 12.5\%$	Silicon dioxide	CAS: 7631-86-9 EC: 231-545-4 REACH No.: 01-21193794 99-16	Substance with a Union workplace exposure limit.
$\geq 5\%$ - $< 7\%$	HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE	EC: 918-811-1 REACH No.: 01-21194635 83-34	 3.10/1 Asp. Tox. 1 H304  3.8/3 STOT SE 3 H336  4.1/C2 Aquatic Chronic 2 H411 EUH066

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>= 1% - < 3%	Colorant rouge	CAS: 56358-10-2 EC: 260-125-3	 3.2/2 Skin Irrit. 2 H315  3.4.2/1 Skin Sens. 1 H317 4.1/C4 Aquatic Chronic 4 H413
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Substances in nanoform:

>= 10% - < 12.5% Silicon dioxide

REACH No.: 01-2119379499-16, CAS: 7631-86-9, EC: 231-545-4

### 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. OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

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. Obtain a medical examination.

In case of Inhalation:

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

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

No particular treatment.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:

Foam.

Multipurpose powders class ABC

Water haze

Extinguishing media which must not be used for safety reasons:

Spray water

#### 5.2. Special hazards arising from the substance or mixture

Carbon monoxide and carbon dioxide

#### 5.3. Advice for firefighters

Use Self-Contained Breathing Apparatus (SCBA) with chemical protection suit.

### SECTION 6: Accidental release measures

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

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

#### 6.3. Methods and material for containment and cleaning up

For containment:

Ensure adequate ventilation

For cleaning up:

Absorb spillage as quickly as possible using inert solids such as clay or diatomaceous earth. clay or diatomaceous earth. Store away from other materials. Wash soiled area with water

Use neutralising agent

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation

#### 6.4. Reference to other sections

See also section 8 and 13

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, ensure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Wash hands after use

Contaminated clothing should be changed before entering eating areas.

Do not eat, drink or smoke when using this product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

#### 7.3. Specific end use(s)

None in particular

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limit values

Silicon dioxide - CAS: 7631-86-9

- OEL Type: National - TWA(8h): 10 mg/m<sup>3</sup> - Notes: Spain

- OEL Type: EU - TWA: 0.1 mg/m<sup>3</sup> - Notes: 2004/37/EC ; respirable dust

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE

- OEL Type: National - TWA: 100 mg/m<sup>3</sup>, 17 ppm - Notes: ExxonMobil

##### DNEL Exposure Limit Values

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE

Worker Industry: 12.5 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 150 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 7.5 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 32 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

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Consumer: 7.5 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

### PNEC Exposure Limit Values

N.A.

### Biological Exposure Index

N.A.

## 8.2. Exposure controls

See below, example of PPE to use.

### Eye protection:

Eye glasses with side protection.

### Protection for skin:

Chemical protection clothing.

### Protection for hands:

NBR (nitrile rubber).

### Respiratory protection:

Mask with filter "A" , brown colour

Mask with filter "P" , white colour

### Thermal Hazards:

None

### Environmental exposure controls:

None

### Appropriate engineering controls:

None

### Other conditions affecting workers exposure:

None

## SECTION 9: Physical and chemical properties

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

Properties	Value	Method:	Notes
Physical state:	Gel	--	--
Colour:	Red	--	--
Odour:	N.A.	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	>179°C	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	0.7-6.5 %	--	--
Flash point (°C):	N.A.	--	--
Auto-ignition temperature:	281°C	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	0.5 hPa	--	--
Density and/or relative	0.8 g/cm <sup>3</sup>	--	--

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density:			
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

#### 9.2. Other information

No other relevant information

Volatile Organic compounds - VOCs = 65.86 %

N.A. = not available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions

#### 10.2. Chemical stability

Stable under normal conditions

#### 10.3. Possibility of hazardous reactions

None

#### 10.4. Conditions to avoid

Stable under normal conditions.

#### 10.5. Incompatible materials

None in particular.

#### 10.6. Hazardous decomposition products

None.

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### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

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Acute toxicity

Not classified

Based on available data, the classification criteria are not met

Skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

Respiratory or skin sensitisation

The product is classified: Skin Sens. 1 H317

Germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

Carcinogenicity

Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

STOT-repeated exposure

The product is classified: STOT RE 1 H372

Aspiration hazard

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Not classified

Based on available data, the classification criteria are not met

Adverse health effects

Skin and Eye contact:

It can cause irritation if comes in contact with skin and/or eyes.

Toxicological information of the main substances found in the product:

Silicon dioxide - CAS: 7631-86-9

Acute toxicity

ATE - Oral 5001 mg/kg bw

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

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

Test: LC50 - Route: Inhalation (dust, mist) - Species: Rat (Male, female) > 5.01 mg/l -

Duration: 4h

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: OECD 401

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Source: OECD 402

Test: LC50 - Route: Inhalation - Species: Rat > 2 mg/l

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 4688 mg/m<sup>3</sup> - Duration: 4h -

Source: OECD 403

**11.2. Information on other hazards**

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq$  0.1%

Other toxicological information:

None.

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**SECTION 12: Ecological information****12.1. Toxicity**

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

DP-55 THIXO

The product is classified: Aquatic Chronic 3 - H412

Silicon dioxide - CAS: 7631-86-9

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Fish > 10000 mg/l - Duration h: 96 - Notes: Brachydanio rerio

Endpoint: EC50 - Species: Aquatic invertebrates > 1000 mg/l - Duration h: 24 - Notes:

Daphnia magna

Endpoint: EC50 - Species: Aquatic plants > 173 mg/l - Duration h: 72 - Notes: Desmodesmus subspicatus ; OECD 201

Endpoint: EC50 - Species: Microorganisms > 2500 mg/l - Duration h: 3 - Notes: OECD 209 ; domestic activated sludge

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE

a) Aquatic acute toxicity:

Endpoint: EL50

- Species: Crustacea  $\geq$  3 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: EL50

- Species: Crustacea  $\leq$  10 mg/kg/d - Duration h: 48 - Notes: Daphnia magna

Endpoint: LL50

- Species: Fish  $\geq$  2 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: LL50

- Species: Fish < 5 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: NOELR - Species: Algae = 2.5 mg/l - Duration h: 72 - Notes: Pseudokirchnerella subcapitata

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Endpoint: EL50

- Species: Algae = 11 mg/l - Duration h: 72 - Notes: Pseudokirchnerella subcapitata

#### 12.2. Persistence and degradability

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE

Biodegradability: Readily biodegradable - Duration: 28 days - %: 50%

#### 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. Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

#### 12.7. Other adverse effects

No harmful effects expected.

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### 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.

Codes of wastes (Décision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):

07 07 04\* other organic solvents, washing liquids and mother liquors

Additional disposal information:

Disposal should be in accordance with applicable regional, national and local laws and regulations. Please consult Technical Data Sheet for details.

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### SECTION 14: Transport information

#### 14.1. UN number or ID number

#### 14.2. UN proper shipping name

ADR-Shipping Name: \*ENTER PROPER SHIPPING NAME\*

IATA-Shipping Name: \*ENTER PROPER SHIPPING NAME\*

IMDG-Shipping Name: \*ENTER PROPER SHIPPING NAME\*

#### 14.3. Transport hazard class(es)

#### 14.4. Packing group

#### 14.5. Environmental hazards

Marine pollutant: Marine pollutant

#### 14.6. Special precautions for user

#### 14.7. Maritime transport in bulk according to IMO instruments

N.A.

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### SECTION 15: Regulatory information

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

Dir. 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) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)



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Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)  
Regulation (EU) n. 2020/1182 (ATP 15 CLP)  
Regulation (EU) n. 2021/643 (ATP 16 CLP)  
Regulation (EU) n. 2021/849 (ATP 17 CLP)  
Regulation (EU) n. 2022/692 (ATP 18 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

Restrictions related to the substances contained:

No restriction.

Listed or in compliance with the following international inventories:

Labelling of detergents (EC Regulations 648/2004 and 907/2006):

N.A.

Labelling of biocides (Regulations 1896/2000, 1687/2002, 2032/2003, 1048/2005, 1849/2006, 1451/2007 and Directive 98/8/EC):

N.A.

N.A.

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

1999/13/EC (VOC directive)

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

### 15.2. Chemical safety assessment

No

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## SECTION 16: Other information

N.A.: Not Applicable or Not Available

Full text of phrases referred to in Section 3:

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H304 May be fatal if swallowed and enters airways.  
 H372 Causes damage to organs through prolonged or repeated exposure.  
 H412 Harmful to aquatic life with long lasting effects.  
 H318 Causes serious eye damage.  
 H336 May cause drowsiness or dizziness.  
 H411 Toxic to aquatic life with long lasting effects.  
 EUH066 Repeated exposure may cause skin dryness or cracking.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H413 May cause long lasting harmful effects to aquatic life.

Hazard class and hazard category	Code	Description
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3
Aquatic Chronic 4	4.1/C4	Chronic (long term) aquatic hazard, category 4

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
STOT RE 1, H372	Calculation method
Aquatic Chronic 3, H412	Calculation method

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

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responsibility of the purchaser/user to ensure that their activities conform with current legislation in force.

The information is considered correct, but it is not exhaustive and it shall be used only as a guide which is based on the current knowledge of the substance or mixture and it is applicable to the safety precautions appropriate for the product.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
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.
STOT SE:	May cause drowsiness or dizziness
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.