

Safety Data Sheet

MULTIFUNCTION-COMPLETE TREATMENT (PETROL)



Safety Data Sheet dated 14/3/2019, version 4

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

1.1. Product identifier

Mixture identification:

Trade name: MULTIFUNCTION-COMPLETE TREATMENT (PETROL)

Trade code: 9074

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

Recommended use:

Fuel additive

1.3. Details of the supplier of the safety data sheet

Supplier:

Arexons S.p.A.

via Antica di Cassano, 23, 20063

Cernusco sul Naviglio (MI), Italy

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Competent person responsible for the safety data sheet:

arexons@arexons.it

1.4. Emergency telephone number

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Centro Antiveleni di Pavia IRCCS- Fondazione Maugeri tel. +39 (0)382 24444 (h24; it, en)

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

In Ireland: Beaumont Hospital - National Poisons Information Centre 01 809 2166 (7days, 8:00 - 22:00)

In South Africa: Poison Information Helpline 0861 555 777

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

⚠ Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.

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:



Danger

Hazard statements:

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

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

P102 Keep out of reach of children.

P103 Read label before use.

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

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P331 Do NOT induce vomiting.

P405 Store locked up.

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

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

PACK1 The packing must be featured by a safety lock for children.

PACK2 The packing must have tactile indications of danger for blind people.

Contains

Distillates (petroleum), hydrotreated light

Hydrocarbons, C10, aromatics, > 1% naphthalene

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

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

87.7 % Distillates (petroleum), hydrotreated light

REACH No.: 01-2119456620-43, Index number: 649-422-00-2, CAS: 64742-47-8, EC: 926-141-6

⚠ 3.10/1 Asp. Tox. 1 H304

EUH066

>= 3% - < 5% Hydrocarbons, C10, aromatics, > 1% naphthalene

Index number: 919-284-0, EC: 265-198-5

⚠ 3.8/3 STOT SE 3 H336

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 4.1/C2 Aquatic Chronic 2 H411

EUH066

>= 2% - < 3% Phenol, (dimethylamino)methyl-, polyisobutylene derivs.

4.1/C3 Aquatic Chronic 3 H412

>= 0,25% - < 0,5% 1,2,4-trimethylbenzene

Index number: 601-043-00-3, CAS: 95-63-6, EC: 202-436-9

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.1/4/Inhal Acute Tox. 4 H332

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.8/3 STOT SE 3 H335

⚠ 4.1/C2 Aquatic Chronic 2 H411

>= 0,25% - < 0,5% naphthalene

Index number: 601-052-00-2, CAS: 91-20-3, EC: 202-049-5

⚠ 3.6/2 Carc. 2 H351

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

⚠ 2.7/2 Flam. Sol. 2 H228

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- $\geq 0,1\%$ - $< 0,25\%$ 1,3,5-trimethylbenzene
Index number: 601-025-00-5, CAS: 108-67-8, EC: 203-604-4
- ⚠ 2.6/3 Flam. Liq. 3 H226
 - ⚠ 3.8/3 STOT SE 3 H335
 - ⚠ 4.1/C2 Aquatic Chronic 2 H411
- $\geq 0,02\%$ - $< 0,05\%$ 2,2'-iminodiethanol
Index number: 603-071-00-1, CAS: 111-42-2, EC: 203-868-0
- ⚠ 3.1/4/Oral Acute Tox. 4 H302
 - ⚠ 3.6/2 Carc. 2 H351
 - ⚠ 3.9/2 STOT RE 2 H373
 - ⚠ 3.3/1 Eye Dam. 1 H318
 - ⚠ 3.2/2 Skin Irrit. 2 H315
 - 4.1/C3 Aquatic Chronic 3 H412

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

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 with plenty of water and soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

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

In case of Ingestion:

Do NOT induce vomiting.

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:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Appropriate Extinguishing Media:

To carbon dioxide.

To dust.

Foam

Water spray.

Not Recommended Extinguishing Media:

Do not use direct water jets.

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.

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Move undamaged containers from immediate hazard area if it can be done safely. **PETRONAS**

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.
 - 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.
 - 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
 - Keep away from food, drink and feed.
 - None in particular.
 - Instructions as regards storage premises:
 - Adequately ventilated premises.
- 7.3. Specific end use(s)
 - None in particular

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
 - 1,2,4-trimethylbenzene - CAS: 95-63-6
 - EU - TWA(8h): 100 mg/m³, 20 ppm
 - naphthalene - CAS: 91-20-3
 - 20101.13 - TWA: 50 mg/m³, 10 ppm
 - EU - TWA(8h): 50 mg/m³, 10 ppm
 - ACGIH - TWA(8h): 10 ppm - Notes: Skin, A3 - URT irr, cataracts, hemolytic anemia
 - 1,3,5-trimethylbenzene - CAS: 108-67-8
 - EU - TWA(8h): 100 mg/m³, 20 ppm
 - 2,2'-iminodiethanol - CAS: 111-42-2
 - ACGIH - TWA(8h): 1 mg/m³ - Notes: (IFV), Skin, A3 - Liver and kidney dam
 - EU - TWA(8h): 15 mg/m³, 3 ppm - STEL(): 30 mg/m³, 6 ppm
- DNEL Exposure Limit Values
 - 2,2'-iminodiethanol - CAS: 111-42-2
 - Worker Professional: 0.13 mg/kg - Consumer: 0.07 mg/kg - Exposure: Human Dermal
 - Consumer: 0.06 mg/kg - Exposure: Human Oral
- PNEC Exposure Limit Values
 - 2,2'-iminodiethanol - CAS: 111-42-2
 - Target: Fresh Water - Value: 0.02 mg/l

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8.2. Exposure controls

Eye protection:

Eye glasses with side protection.
Compliant with EN 166

Protection for skin:

protective clothing

Protection for hands:

Nitrile or Viton gloves.
Compliant with EN 374.

Respiratory protection:

Not needed for normal use.

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:	Liquid, yellow	--	--
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:	>65°C	IP 170	--
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:	0.822 g/ml	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--

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Auto-ignition temperature:	N.A.	--	--	PETRONAS
Decomposition 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.	--	--
Substance Groups relevant properties	N.A.	--	--

NA=not applicable

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.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
 - Toxicological information of the product:
 - PETRONAS Durance PETROL MULTIFUNCTION TREATMENT ML250
 - a) acute toxicity
 - Based on available data, the classification criteria are not met
 - b) skin corrosion/irritation
 - Based on available data, the classification criteria are not met
 - c) serious eye damage/irritation
 - Based on available data, the classification criteria are not met
 - d) respiratory or skin sensitisation
 - Based on available data, the classification criteria are not met

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e) germ cell mutagenicity

Based on available data, the classification criteria are not met

f) carcinogenicity

Based on available data, the classification criteria are not met

g) reproductive toxicity

Based on available data, the classification criteria are not met

h) STOT-single exposure

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Based on available data, the classification criteria are not met

j) aspiration hazard

The product is classified: Asp. Tox. 1 H304

Toxicological information of the main substances found in the product:

Distillates (petroleum), hydrotreated light - CAS: 64742-47-8

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 5000 mg/m3 - Duration: 8h

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

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

b) skin corrosion/irritation:

Test: OECD TG 404 - Route: Skin Negative

c) serious eye damage/irritation:

Test: OECD TG 405 - Route: EYE Negative

d) respiratory or skin sensitisation:

Test: Inhalation Sensitization 3

Test: Skin Sensitization 3

j) aspiration hazard:

Test: May be fatal if swallowed and enters airways (physical-chemical properties) - Route:

Oral Positive

1,2,4-trimethylbenzene - CAS: 95-63-6

a) acute toxicity:

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

Test: LD50 - Route: Skin - Species: Rabbit 3160 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 18000 mg/l - Duration: 4h

naphthalene - CAS: 91-20-3

e) germ cell mutagenicity:

Test: Mutagenesis - Species: vitro Positive

f) carcinogenicity:

Test: Carcinogeneticity - Route: Inhalation - Species: Rat Positive - Notes: IARC 2B

i) STOT-repeated exposure:

Test: oecd 16 Positive

2,2'-iminodiethanol - CAS: 111-42-2

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat 3.35 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit 12200 mg/kg

Test: LD50 - Route: Oral - Species: Rat 1600 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Positive

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Positive

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Species: IND Negative

e) germ cell mutagenicity:

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- Test: oecd - Species: vitro Negative
- f) carcinogenicity:
Test: Carcinogeneticity - Species: Rat Positive
- g) reproductive toxicity:
Test: oecd 3 - Route: Oral - Species: Rat Positive

SECTION 12: Ecological information

- 12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
Distillates (petroleum), hydrotreated light - CAS: 64742-47-8
- a) Aquatic acute toxicity:
Endpoint: EL0 - Species: Daphnia 1000 mg/l - Duration h: 48
Endpoint: EL0 - Species: Algae 1000 mg/l - Duration h: 72
Endpoint: CE7 - Species: Fish 1000 mg/l - Duration h: 96
1,2,4-trimethylbenzene - CAS: 95-63-6
- b) Aquatic chronic toxicity:
Endpoint: LC50 - Species: Daphnia 6.14 mg/l - Duration h: 48
2,2'-iminodiethanol - CAS: 111-42-2
- a) Aquatic acute toxicity:
Endpoint: EL10 - Species: fanghi > 1000 mg/l - Duration h: 0.5
Endpoint: EL50 - Species: Algae 9.5 mg/l - Duration h: 72
Endpoint: EL50 - Species: Daphnia 30.1 mg/l - Duration h: 48
Endpoint: LC50 - Species: Fish 1370 mg/l - Duration h: 96
Endpoint: LL50 - Species: Fish 460 mg/l - Duration h: 96
- b) Aquatic chronic toxicity:
Endpoint: EL10 - Species: Daphnia 0.78 mg/l - Duration h: 504
Endpoint: NOEL - Species: Algae 0.6 mg/l - Duration h: 72
- 12.2. Persistence and degradability
None
2,2'-iminodiethanol - CAS: 111-42-2
Biodegradability: Readily biodegradable - Test: BIOGDG10 - Duration: 28gg - %: 93
- 12.3. Bioaccumulative potential
2,2'-iminodiethanol - CAS: 111-42-2
Bioaccumulation: Not bioaccumulative - Test: log Pow -1.43
- 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
Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name
N.A.

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- 14.3. Transport hazard class(es)
N.A.
- 14.4. Packing group
N.A.
- 14.5. Environmental hazards
ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No
- 14.6. Special precautions for user
N.A.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No

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)
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)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
None

Volatile Organic compounds - VOCs = 93.02 %
Volatile Organic compounds - VOCs = 930.23 g/Kg
Volatile Organic compounds - VOCs = 764.65 g/l

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
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 Chemical Safety Assessment has been carried out for the mixture.
Substances for which a Chemical Safety Assessment has been carried out:
None

SECTION 16: Other information

Text of phrases referred to under heading 3:
H304 May be fatal if swallowed and enters airways.
EUH066 Repeated exposure may cause skin dryness or cracking.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H302 Harmful if swallowed.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H228 Flammable solid.
H373 May cause damage to organs through prolonged or repeated exposure.
H318 Causes serious eye damage.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Flam. Sol. 2	2.7/2	Flammable solid, Category 2
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
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
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Carc. 2	3.6/2	Carcinogenicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, 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

Paragraphs modified from the previous revision:

SECTION 9: Physical and chemical properties

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

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Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure PETRONAS
Asp. Tox. 1, H304	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

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.
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.
NA:	Not applicable
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.