# Safety Data Sheet
# 9.DAFINE - 9.DAFINE250 - 9.DAFINE5L

## Safety Data Sheet dated 19/4/2023, version 1

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

1.1. Product identifier

Mixture identification:

Trade name: 9.DAFINE - 9.DAFINE250 - 9.DAFINE5L

Trade code: 9.DAFINE

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

Recommended use:

Abrasive and polishing compound

Professional use only

Uses advised against:

All not indicated in the suggested uses.

1.3. Details of the supplier of the safety data sheet

Company:

RUPES SPA - Via Marconi 3A - Loc. Vermezzo 20071 Vermezzo con Zelo (MI) – Italy

RUPES SPA - Telefono n°+3902946941

Competent person responsible for the safety data sheet:

info_rupes@rupes.it

1.4. Emergency telephone number

For United States, Canada Puerto Rico and Virgin Island: 1-800-255-3924

For China: 400-120-0751

For Brazil: 0-800-591-6042

For India: 000-800-100-4086

For Mexico: 01-800-099-0731

For Europe and all the other countries: 001-813-248-0585

## SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

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

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

None

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

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

Special Provisions:

None

Contains

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1): May produce an allergic reaction.

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 >= 0.1%

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 |
|---|---|---|---|
| >= 10% - < 25% | hydrocarbons, C10-C12, isoalkanes, <2% aromatic | EC: 923-037-2 | 2.6/3 Flam. Liq. 3 H226<br>3.10/1 Asp. Tox. 1 H304<br>4.1/C2 Aquatic Chronic 2 H411<br>EUH066 |
| >= 2% - < 5% | Hydrocarbons C12-C16, isoalkanes, <2% Aromatics | EC: 927-676-8 | 3.10/1 Asp. Tox. 1 H304<br>EUH066 |
| >= 1% - < 2% | aliphatic hydrocarbons, C11-C13, isoalkanes (<0.1% Benzene) | CAS: 246538-78-3<br>EC: 920-901-0<br>REACH No.: 01-2119456810-40 | 3.10/1 Asp. Tox. 1 H304<br>EUH066 |
| 14 ppm | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | Index number: 613-167-00-5<br>CAS: 55965-84-9 | 3.2/1C Skin Corr. 1C H314<br>3.3/1 Eye Dam. 1 H318<br>3.4.2/1A Skin Sens. 1A H317<br>4.1/A1 Aquatic Acute 1 H400<br>4.1/C1 Aquatic Chronic 1 H410<br>3.1/3/Oral Acute Tox. 3 H301<br>3.1/2/Dermal Acute Tox. 2 H310<br>3.1/2/Inhal Acute Tox. 2 H330<br>Specific Concentration Limits:<br>C >= 0,6%: Skin Corr. 1B H314<br>0,06% <= C < 0.6%: Skin Irrit. 2 H315 |

| | | | |
|---|---|---|---|
| | | | 0,06% <= C < 0.6%: Eye Irrit. 2 H319<br>C >= 0,0015%: Skin Sens. 1 H317 |

## SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

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

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

Treatment:

None

## SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

foam fire extinguisher

Extinguishing media which must not be used for safety reasons:

Water.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

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.

## 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.

6.3. Methods and material for containment and cleaning up
For 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.
Advice on general occupational hygiene:
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
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)
Abrasive and polishing compound
Professional use only

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters
hydrocarbons, C10-C12, isoalkanes, <2% aromatic
- OEL Type: TLV-ACGIH - TWA(8h): 1200 mg/m3, 0 ppm - STEL(15min): 0 mg/m3, 0 ppm
Hydrocarbons C12-C16, isoalkanes, <2% Aromatics
- OEL Type: EU - TWA(8h): 200 mg/m3
DNEL Exposure Limit Values
N.A.
PNEC Exposure Limit Values
N.A.
8.2. Exposure controls
Eye protection:
Not needed for normal use. Anyway, operate according good working practices.
Protection for skin:
No special precaution must be adopted for normal use.
Protection for hands:
Not needed for normal use.
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 |
|---|---|---|---|
| Physical state: | Liquid | -- | -- |
| Colour: | Yellow | -- | -- |
| Odour: | characteristic | -- | -- |
| Melting point/freezing point: | N.A. | -- | -- |
| Boiling point or initial boiling point and boiling range: | N.A. | -- | -- |
| Flammability: | N.A. | -- | -- |
| Lower and upper explosion limit: | N.A. | -- | -- |
| Flash point: | 70 -72 ° C | ASTM D93 | -- |
| Auto-ignition temperature: | N.A. | -- | -- |
| Decomposition temperature: | N.A. | -- | -- |
| pH: | 8.5 - 9.5 | -- | -- |
| Kinematic viscosity: | > 20,5 mm2/sec (40 °C) | -- | -- |
| Solubility in water: | partially miscible | -- | -- |
| Solubility in oil: | N.A. | -- | -- |
| Partition coefficient n-octanol/water (log value): | N.A. | -- | -- |
| Vapour pressure: | N.A. | -- | -- |
| Density and/or relative density: | N.A. | -- | -- |
| Relative vapour density: | N.A. | -- | -- |

Particle characteristics:

| | | | |
|---|---|---|---|
| Particle size: | N.A. | -- | -- |

9.2. Other information

| Properties | Value | Method: | Notes |
|---|---|---|---|
| Viscosity: | >20.5mm2/s (40°C) | -- | -- |

## 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
Direct sunlight. Extremely high or low temperatures
10.5. Incompatible materials
strong oxidizing agents
10.6. Hazardous decomposition products
carbon monoxide (CO) and carbon dioxide (CO2)

## SECTION 11: Toxicological information

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

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

hydrocarbons, C10-C12, isoalkanes, <2% aromatic

a) acute toxicity:

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

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 5000 mg/m3 - Duration: 4h - Notes: OECD 403

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Notes: OECD 402

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Notes: OECD 404

c) serious eye damage/irritation:

Test: Eye Irritant - Route: ocular - Species: Rabbit Negative - Notes: OECD 405

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: Guinea pig Negative - Notes: OECD 406

Hydrocarbons C12-C16, isoalkanes, <2% Aromatics

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: ECHA database - Notes: OECD401

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 5000 mg/m3 - Duration: 4h - Source: ECHA database - Notes: OECD403

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Source: ECHA database - Notes: OECD402

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Notes: OECD404

c) serious eye damage/irritation:

Test: Eye Irritant - Route: ocular - Species: Rabbit Negative - Notes: OECD405

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: Guinea pig Negative - Notes: OECD406

aliphatic hydrocarbons, C11-C13, isoalkanes (<0.1% Benzene) - CAS: 246538-78-3

a) acute toxicity:

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

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Notes: OECD 402

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 5000 mg/kg - Duration: 4h - Notes: OECD 403

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Notes: OECD 404

c) serious eye damage/irritation:

Test: Eye Irritant - Route: ocular - Species: Rabbit Negative - Notes: OECD 405

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: Guinea pig Negative - Notes: OECD 406

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) - CAS: 55965-84-9

a) acute toxicity:
Test: ATE - Route: Oral = 100 mg/kg
Test: ATE - Route: Skin = 300 mg/kg
Test: ATE - Route: Inhalation Vapour = 3 mg/l
Test: ATE - Route: Inhalation Mist = 0.5 mg/l

If not differently specified, the information required in Regulation (EU)2020/878 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.

11.2. Information on other hazards
Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

## SECTION 12: Ecological information

12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
hydrocarbons, C10-C12, isoalkanes, <2% aromatic
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: LL50 - OECD 203 - Oncorhynchus mykiss
Endpoint: LC50 - Species: Daphnia > 1000 mg/l - Duration h: 48 - Notes: LL50 - OECD 202 - Daphia magna
Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72 - Notes: LL50 - OECD 201 - Pseudokirchneriella subcapitata
b) Aquatic chronic toxicity:
Endpoint: NOEL - Species: Fish = 0.192 mg/l - Notes: NOELR - 28 d - Oncorhynchus mykiss
Endpoint: NOEL - Species: Daphnia = 1 mg/l - Notes: NOELR - 21 d - OECD 211 - Daphnia magna
c) Bacteria toxicity:
Endpoint: EC50 - Species: microorganisms > 2 ml/l - Duration h: 5 - Notes: EL50 - Pseudomonas putida
Hydrocarbons C12-C16, isoalkanes, <2% Aromatics
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: LL50 - OECD 203 Oncorhynchus mykiss
Endpoint: LC50 - Species: Daphnia > 1000 mg/l - Duration h: 48 - Notes: LL50 - OECD 202 Daphnia Magna

Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72 - Notes: EL50 - OECD 201 Pseudokirchnerella subcapitata

b) Aquatic chronic toxicity:

Endpoint: NOEL - Species: Daphnia = 1 mg/l - Notes: NOELR - 21d - OECD 211- Dafinia Magna

Endpoint: NOEL - Species: Fish > 1000 mg/l - Notes: NOELR - 28d - Oncorhynchus mykiss

c) Bacteria toxicity:

Endpoint: EC50 - Species: microorganisms > 1000 mg/l - Duration h: 5 - Notes: EL50 - Tetrahymena pyriformis

aliphatic hydrocarbons, C11-C13, isoalkanes (<0.1% Benzene) - CAS: 246538-78-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: LL50 - OECD 203 - Oncorhynchus mykiss

Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72 - Notes: LL50 - OECD 201 - Pseudokirchneriella subcapitata

Endpoint: LC50 - Species: Daphnia > 1000 mg/l - Duration h: 48 - Notes: LL50 - OECD 202 - Daphnia magna

b) Aquatic chronic toxicity:

Endpoint: NOEL - Species: Fish = 0.316 mg/l - Notes: NOELR - 28d - Oncorhynchus mykiss

Endpoint: NOEL - Species: Daphnia = 1 mg/l - Notes: NOELR - 21d - OECD 211 - Daphnia magna

c) Bacteria toxicity:

Endpoint: EC50 - Species: microorganisms > 1000 mg/l - Duration h: 5 - Notes: EL50 - Tetrahymena pyriformis

12.2. Persistence and degradability

hydrocarbons, C10-C12, isoalkanes, <2% aromatic

Biodegradability: Biodegradability: Not readily biodegradable - Test: Oxygen consumption - Duration h: 28d - %: 41.7 - Notes: (%) - ECHA - OECD 301 F

Hydrocarbons C12-C16, isoalkanes, <2% Aromatics

Biodegradability: Biodegradability: Not readily biodegradable - Test: Oxygen consumption - Duration h: 28d - %: 22.4 - Notes: (%) - ECHA - OECD 301F

aliphatic hydrocarbons, C11-C13, isoalkanes (<0.1% Benzene) - CAS: 246538-78-3

Biodegradability: Readily biodegradable - Test: Oxygen consumption - Duration h: 28d - %: 89.8 - Notes: (%) - ECHA - OECD 301F

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 >= 0.1%

12.7. Other adverse effects

None

## SECTION 13: Disposal considerations

13.1. Waste treatment methods
Recover if possible. In so doing, comply with the local and national regulations currently in force.
Additional disposal information:
Dispose in a safe manner in accordance with local/national regulations

## SECTION 14: Transport information

14.1. UN number or ID number
Not classified as dangerous in the meaning of transport regulations.
14.2. UN proper shipping name
N.A.
14.3. Transport hazard class(es)
N.A.
14.4. Packing group
N.A.
14.5. Environmental hazards
N.A.
14.6. Special precautions for user
N.A.
14.7. Maritime transport in bulk according to IMO instruments
N.A.

## 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. 2020/878
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)
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

Restriction 40

Restrictions related to the substances contained:

Restriction 75

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.

## SECTION 16: Other information

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H301 Toxic if swallowed.

H310 Fatal in contact with skin.

H330 Fatal if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

| Hazard class and hazard category | Code | Description |
|---|---|---|
| Flam. Liq. 3 | 2.6/3 | Flammable liquid, Category 3 |
| Acute Tox. 2 | 3.1/2/Dermal | Acute toxicity (dermal), Category 2 |
| Acute Tox. 2 | 3.1/2/Inhal | Acute toxicity (inhalation), Category 2 |
| Acute Tox. 3 | 3.1/3/Oral | Acute toxicity (oral), Category 3 |
| Asp. Tox. 1 | 3.10/1 | Aspiration hazard, Category 1 |
| Skin Corr. 1B | 3.2/1B | Skin corrosion, Category 1B |
| Skin Corr. 1C | 3.2/1C | Skin corrosion, Category 1C |
| 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 |
| Skin Sens. 1 | 3.4.2/1 | Skin Sensitisation, Category 1 |
| Skin Sens. 1A | 3.4.2/1A | Skin Sensitisation, Category 1A |
| 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 |

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** |
|---|---|
| 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. |
| 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. |