

SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878

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Version: 2.0

Revision date: 19-05-2022

Print date: 16-9-2022

Trade name: RP 025 UV2

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

1.1 Product identification:

Product name: RP 025 UV2
UFI: FOW2-T46X-9S10-XUQC

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

Usage: UV-resistant epoxy casting resin.
Uses advised against: Not suitable for "Do-it-yourself".

1.3 Details of the supplier of the safety data sheet

Responsible distributor: ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency telephone number:

For Belgium:

Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.

NHS 24 Direct

For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture:

Classification according to Directive (EC) No 1272/2008 and its amendments.

The product is classified according to the applicable legislation.

Classification in accordance with Regulation (EC) No 1272/2008 as amended.

Health hazards

Warning, Skin Irrit. 2, Causes skin irritation.

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

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

Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]:



Hazard pictograms:

Signal word

Danger.

Hazardous ingredients which must be stated on the label

- ✓ reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)
- ✓ 1,4-bis(2,3 epoxypropoxy)butane
- ✓ Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,: May produce an allergic reaction.

Indications of danger:

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H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Precautions

Prevention:

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

P264 Wash the tools thoroughly after handling.

P273 Avoid release to the environment.

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

Action:

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 or doctor/physician.

P391 Collect spillage.

Special provisions:

EUH205 Contains epoxy compounds. May cause allergic reaction.

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

No

2.3 Other hazards:

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

Other Hazards:

No other hazards

SECTION 3: Composition and information on ingredients

3.2 Mixtures:

Description:

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

Chemical Name	CAS No. EC No. Index No. Registration number	Layout (Regulation (EC) No 1272/008)	Concentration (%)
reaction product: bisphenol-A- (epichlorohydrin); epoxy resin (number average molecular weight ≤ 700)	1675-54-3 216-823-5 603-073-00-2 01-2119456619-26	Eye Irrit. 2 H319 Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Chronic 2 H411	$\geq 60\% - < 80\%$
1,4-bis(2,3epoxypropoxy)butane	2425-79-8 219-371-7 603-072-00-7 01-2119494060-45	Acute Tox. 4 H302 Acute Tox. 4 H312 Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Dam. 1 H318 Acute Tox. 4 H332 Aquatic Chronic 3 H412	$\geq 20\% - < 40\%$
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate and Methyl 1,2,	1065336-91-5 915-687-0 - 01-2119491304-40	Repr. 2 H361f Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	$\geq 0.5\% - < 1\%$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures:

In case of skin contact:

Immediately take off all contaminated clothing.

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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 off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eye 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:

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: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2 Special hazards arising from the substance or mixture

Specific firefighting hazards:

Do not inhale explosion gases or combustion gases.

Burning produces heavy smoke.

5.3 Advice for firefighters:

Special protective equipment 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 for the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

Personal precautions:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2 Environmental precautions:

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.

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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.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2 Conditions for safe storage, including any incompatibilities

Store in original containers, dry, tightly closed, in a cool and well-ventilated area.

Avoid contact with skin, eyes and clothing.

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:

None in particular.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

No occupational exposure limit available

DNEL exposure limits

Substance name	End use	Route of exposure	Possible health condition	Value
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) - CAS: 1675-54-3	Consumer	Human Oral	Long-term - systemic effects	0.75 mg/kg
	Consumer	Human Oral	Short-term - systemic effects	0.75 mg/kg
	Worker Professional	Human Dermal	Long-term - systemic effects	8.33 mg/kg
	Consumer	Human Dermal	Long-term - systemic effects	3.571 mg/kg
	Worker Professional	Human Dermal	Short-term - systemic effects	8.33 mg/kg
	Consumer	Human Dermal	Short-term - systemic effects	3.571 mg/kg
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2, - CAS: 1065336- 91-5	Consumer	Human Oral	Long-term - systemic effects	0.5 mg/kg bw/d
	Worker Professional	Human Inhalation	Long-term - systemic effects	3.53 mg/m ³
	Consumer	Human Inhalation	Long-term - systemic effects	0.87 mg/m ³

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	Worker Professional	Human Dermal	Long-term - systemic effects	2 mg/kg bw/d
	Consumer	Human Dermal	Long-term - systemic effects	1 mg/kg bw/d

PNEC exposure limits

Substance name	Environmental compartment	Value
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) - CAS: 1675-54-3	Fresh water	3 mg/l
	Marine water	0.3 mg/l
	Freshwater sediments	0.5 mg/l
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate and Methyl 1,2, - CAS: 1065336-91-5	Marine water sediments	0.5 mg/l
	Fresh water	0.0022 mg/l
	Marine water	0.00022 mg/l
	Freshwater sediments	1.05 mg/kg
	Marine water sediments	0.11 mg/kg

8.2 Exposure controls:

Eye protection:

Wear safety goggles (ref. Standard EN 166).

Protection for the skin:

Safety shoes.

Wear work clothes with long sleeves and safety footwear for professional use of category I (REF. Dir. 89/686/EEC and EN 344).

Protection for hands:

Protect your hands with work gloves (ref. Directive 89/686 / EEC and its amendments and EN 374/2003).

Respiratory protection:

Use adequate protective respiratory equipment. (Ref. Dir. 89/686 / EEC, as amended – UNI PROTECTED / 1998 - UNI EN 529/2006).

Thermal hazards:

None.

Controlling environmental exposure:

Prevent from entering sewers, basements or any place where its accumulation can be dangerous.

Appropriate technical measures:

None.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state:	Liquid
Colour:	Violet
Odour:	Low
Melting point/freezing point:	Not Relevant
Boiling point or initial boiling point and boiling range:	> 200°C
Flammability:	Not Relevant
Lower and upper explosion limit:	Not Relevant
Flash point:	>150°C
Auto-ignition temperature:	Not Relevant
Decomposition temperature:	Not Relevant
pH:	7
Kinematic viscosity:	Not Relevant
Solubility in water:	Insoluble
Solubility in oil:	Not Relevant
Partition coefficient n-octanol/water (log value):	Not Relevant

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Vapour pressure: Not Relevant

Density and/or relative density: 1.12 g/ml

Relative vapour density: Not Relevant

Particle characteristics:

Particle size: Not Relevant

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1 Reactivity:

There are no particular risks of reaction with other substances under normal conditions of use.

10.2 Chemical Stability:

The product is stable under normal use and storage conditions.

10.3 Potentially hazardous reactions:

In normal use and storage, hazardous reactions are not predictable.

10.4 Conditions to avoid

Stable under normal conditions.

10.5 Chemically Interacting 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

N/A

Toxicological information of the main substances contained in the product:

reaction product: bisphenol-A- (epichlorohydrin); epoxy resin (average molecular weight <= 700) - CAS: 25068-38-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 30.000 mg/kg

i) STOT-repeated exposure:

Test: NOAEC - Route: Oral - Species: Rat = 50 mg/kg

Test: NOAEC - Route: Skin - Species: Rat = 100 mg/kg

1,4-bis(2,3 epoxypropoxy)butane - CAS: 2425-79-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1.882 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2.150 mg/kg

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2, - CAS: 1065336-91-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 3.230 mg/kg

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;

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j) aspiration hazard.

11.2. Information on other hazards

Endocrine disrupting properties:

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

SECTION 12: Ecological information

12.1 Toxicity:

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

1,4-bis(2,3 epoxypropoxy)butane - CAS: 2425-79-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 43 mg/l - Duration h: 48

Endpoint: EC50 - Species: Daphnia = 75 mg/l - Duration h: 24

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2, - CAS: 1065336-91-5

a) Aquatic acute toxicity:

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

e) Plant toxicity:

Endpoint: EC50 - Species: Algae 0.22 mg/l - Duration h: 72

i) Chronic Daphnia toxicity:

Endpoint: NOEC - Species: Daphnia 6.3 mg/l

12.2 Persistence and Degradability:

RP 025 UV 2

Biodegradability: No data available.

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) - CAS: 1675-54-3

Biodegradability: not biodegradable

1,4-bis(2,3 epoxypropoxy)butane - CAS: 2425-79-8

Biodegradability: No data available.

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2, - CAS: 1065336-91-5

Biodegradability: No data available.

12.3 Bioaccumulation:

RP 025 UV 2

Bioaccumulation: Information not available

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) - CAS: 1675-54-3

Bioaccumulation: Information not available

1,4-bis(2,3 epoxypropoxy)butane - CAS: 2425-79-8

Bioaccumulation: Information not available

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2, - CAS: 1065336-91-5

Bioaccumulation: Information not available

12.4 Mobility in Soil:

RP 025 UV 2

Mobility in soil: No data available

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) - CAS: 1675-54-3

Mobility in soil: No data available

1,4-bis(2,3 epoxypropoxy)butane - CAS: 2425-79-8

Mobility in soil: No data available

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2, - CAS: 1065336-91-5

Mobility in soil: No data available

12.5 Results of PBT and vPvB assessment

vPvB-substances: None - PBT Substances None

12.6. Endocrine disrupting properties

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No endocrine disruptor substances present in concentration \geq 0.1%

12.7 Other adverse effects:

None.

SECTION 13: Instructions for disposal

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: Information relating to carriage

14.1 UN number

ADR/RID/ADN: UN 3082

IMDG: UN 3082

IATA: UN 3082

14.2 Proper load name according to UN Model Regulations

ADR/RID/ADN: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID
(Epoxy resin)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Epoxy resin)

IATA: Environmentally hazardous substance, liquid, n.o.s.
(Epoxy resin)

14.3 Transport hazard class(es)

ADR Class: 9

ADR label: 9

ADR - Hazard identification number 90

IATA Class: 9

IATA label: 9

IMDG Class: 9

14.4 Packing group

ADR packing group: III

IATA Packing group: III

IMDG Packing group: III

14.5 Environmental hazards

Marine pollutant: Marine pollutant

IMDG-EMS: F-S, S-F

14.6 Special precautions for the user

ADR Tunnel Restriction Code: E

IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS LIQUID,
N.O.S. (Epoxy resin)

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

N.A.

SECTION 15: Legally required information

15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (occupational exposure limits)

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)

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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)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

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

Product belongs to category: E2

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of the H statements

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

H361f Suspected of damaging the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Hazard class and hazard category

Acute Tox. 4

Acute Tox. 4

Acute Tox. 4

Skin Irrit. 2

Eye Dam. 1

Eye Irrit. 2

Skin Sens. 1

Repr. 2

Code

3.1/4/Dermal

3.1/4/Inhal

3.1/4/Oral

3.2/2

3.3/1

3.3/2

3.4.2/1

3.7/2

Description

Acute toxicity (dermal), Category 4

Acute toxicity (inhalation), Category 4

Acute toxicity (oral), Category 4

Skin irritation, Category 2

Serious eye damage, Category 1

Eye irritation, Category 2

Skin Sensitisation, Category 1

Reproductive toxicity, Category 2

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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

This safety data sheet has been completely updated in compliance to Regulation 2020/878.

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

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2, H315
Eye Dam. 1, H318
Skin Sens. 1, H317
Aquatic Chronic 2, H411

Classification procedure

Calculation method
Calculation method
Calculation method
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.