Safety Data Sheet in accordance with Regulation (EU) 1907/2006 as amended

Substance key: B0358	Revision Date: 22.10.2024
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

Perapret PU new liq **0120**

Material number: 281241

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

Relevant identified uses of the substance or mixture

Industry sector :	Raw Materials (Base Chemicals)
Type of use :	Auxiliary for the textile industry Textile Finishing Agent

1.3. Details of the supplier of the safety data sheet

Identification of the company

ARCHROMATURKEY Kimya Sanayi
ve Ticaret Ltd. Şti.
Gebze Organize Sanayi Bölgesi İhsan Dede Cad. No:124 Gebze
41480 Kocaeli / TURKEY
Telephone no. : +90 262 672 12 12

Information about the substance/mixture

e-mail: PS.MSDS-Europe@archroma.com

1.4. Emergency telephone number

+49 69 2222 5285, +33 1 7211 0003 (24 h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

Hazard class	Hazard category	H-phrase
Skin sensitisation	Category 1	May cause an allergic skin reaction.

2.2. Label elements

Labelling according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

Hazard pictograms

Signal word
Warning

Hazard statements

H317	May cause an allergic skin reaction.

Precautionary statements

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/ container to an approved waste disposal plant.

Sensitizing components / contains :
5-Chloro-2-methyl-3(2H)isothiazolone mixt. with 2-Methyl-3(2H)isothiazolone

2.3. Other hazards

No additional hazards are known except those derived from the labelling.
Contains no components identified as PBT or vPvB with a content >= 0,1 %

Contains no component identified as having Endocrine disrupting properties with a content >= 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization
Aqueous dispersion of a polymer based on:
polyurethane

Hazardous ingredients

2-methyl-2H-isothiazol-3-one
Concentration : >= 0,0015 - < 0,1 %
CAS number : 2682-20-4
EC number: 220-239-6

Index Number 613-326-00-9

GHS classification EC

Acute toxicity	Category 3	H301
Acute toxicity	Category 2	H330
Acute toxicity	Category 3	H311
Skin corrosion	Category 1B	H314
Serious eye damage	Category 1	H318
Skin sensitisation	Sub-category 1A	H317
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 1	H410

Specific concentration limits:

Skin sensitisation	Category 1A	>= 0,0015 %

M-Factor (Acute aquatic toxicity) :	10
M-Factor (Chronic aquatic toxicity) :	1

5-Chloro-2-methyl-3(2H)isothiazolone mixt. with 2-Methyl-3(2H)isothiazolone
Concentration : >= 0,0002 - < 0,0015 %
CAS number : 55965-84-9
Index Number 613-167-00-5

GHS classification EC

Acute toxicity	Category 3	H301
Acute toxicity	Category 2	H330
Acute toxicity	Category 2	H310
Skin corrosion	Category 1C	H314
Serious eye damage	Category 1	H318
Skin sensitisation	Sub-category 1A	H317
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 1	H410

Specific concentration limits:

Skin corrosion	Category 1C	>= 0,6 %
Skin irritation	Category 2	0,06 - < 0,6 %
Eye irritation	Category 2	0,06 - < 0,6 %
Skin sensitisation	Category 1A	>= 0,0015 %
Serious eye damage	Category 1	>= 0,6 %
Skin sensitisation	Category 1	>= 0,0015 %

M-Factor (Acute aquatic toxicity) :	100
M-Factor (Chronic aquatic toxicity) :	100

The text of the H-phrases is shown in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove/Take off immediately all contaminated clothing.

After inhalation

Remove the casualty from the affected area to fresh air. Keep casualty warm and calm.
Seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of soap and water.
Get medical attention immediately if irritation persists.

After contact with eyes

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
If eye irritation persists, consult a specialist.

After ingestion

If the victim is conscious let him drink plenty of water; immediately call a medical doctor.

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

Symptoms

The possible symptoms known are those derived from the labelling (see section 2).

Hazards

No additional hazards are known except those derived from the labelling.

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

Treatment

Treat symptomatically.
Decontamination

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray
Dry powder
Foam
Carbon dioxide (CO2)

Extinguishing media that must not be used for safety reasons

None known.

5.2. Special hazards arising from the substance or mixture

No hazardous decomposition products are known.

5.3. Advice for firefighters

Further information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.
Avoid contact with skin and eyes.

6.2. Environmental precautions

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
The product should not be allowed to enter drains, water courses or the soil.

6.3. Methods and material for containment and cleaning up

Dispose of absorbed material in accordance with the regulations.
Clean-up methods - small spillage
Pick up with absorbent material (eg sand or sawdust). Rinse away the rest with a weakly alkaline aqueous solution.
Pump up larger quantities.

6.4. Reference to other sections

Additional information

Spilling onto the container's outside will make container slippery.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice.
Evolution of toxic gases/vapours.
To our best knowledge, the occupational exposure limit (OEL) is not exceeded during use.
Entering of tanks must only be performed after intensive cleaning and when it is ensured that residual vapours have been removed. Consideration of national laws and international standards for confined space entry should be taken in to account.
In case of doubt, the concentration of Carbon monoxide must be determined.

Hygiene measures

Clean skin thoroughly after work; apply skin cream.
Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep only in the original container.

Advice on storage compatibility

Keep away from food, drink and animal feeding stuffs.

Further information on storage conditions

Protect against frost. The product after freezing is no longer usuable

Storage stability

Shelf life: 6 Months
Storage temperature: 10 - 30 °C
Humidity requirements: Keep container tightly closed and dry.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Exposure limit values are not available.

DNEL/DMEL values

2-methyl-2H-isothiazol-3-one
EC number: 220-239-6
CAS number : 2682-20-4

Route of exposure	Personnel	Exposure time/Effect	Value	Remarks
Inhalation	Workers	Long-term local effects	0,021 mg/m3	
Inhalation	Workers	Short-term exposure, Local effects	0,043 mg/m3	
Inhalation	Consumers	Long-term local effects	0,021 mg/m3	
Inhalation	Consumers	Local effects, Short-term exposure	0,043 mg/m3	
Oral	Consumers	Long-term systemic effects	0,027 mg/kg bw/day	

		Systemic effects, Short-term exposure	0,053 mg/kg bw/day	

5-Chloro-2-methyl-3(2H)isothiazolone mixt. with 2-Methyl-3(2H)isothiazolone
CAS number : 55965-84-9

Route of exposure	Personnel	Exposure time/Effect	Value	Remarks
Inhalation	Workers	Long-term local effects	0,02 mg/m3	
Inhalation	Workers	Short-term exposure, Local effects	0,04 mg/m3	
Inhalation	Consumers	Long-term local effects	0,02 mg/m3	
Inhalation	Consumers	Short-term exposure, Local effects	0,04 mg/m3	
Oral	Consumers	Long-term systemic effects	0,09 mg/kg bw/day	
Oral	Consumers	Acute effects, Short-term exposure	0,11 mg/kg bw/day	

PNEC values

2-methyl-2H-isothiazol-3-one
EC number: 220-239-6
CAS number : 2682-20-4

Environmental compartment	Personnel/Exposure time/Effect	Value
Fresh water	Assessment Factors	3,39 µg/l
Marine water	Assessment Factors	3,39 µg/l
Sewage treatment plant	Assessment Factors	0,23 mg/l
Soil	Assessment Factors	0,047 mg/kg dry weight (d.w.)

5-Chloro-2-methyl-3(2H)isothiazolone mixt. with 2-Methyl-3(2H)isothiazolone
CAS number : 55965-84-9

Environmental compartment	Personnel/Exposure time/Effect	Value
Fresh water	Assessment Factors	3,39 µg/l
Marine water	Assessment Factors	3,39 µg/l
Sewage treatment plant	Assessment Factors	0,23 mg/l
Fresh water sediment	Assessment Factors	0,027 mg/kg dry weight (d.w.)
Marine sediment	Assessment Factors	0,027 mg/kg dry weight (d.w.)
Soil	Assessment Factors	0,01 mg/kg dry weight (d.w.)

8.2. Exposure controls

Appropriate engineering controls

Local ventilation recommended - mechanical ventilation may be used.

General protective measures

Wash face, hands and any exposed skin thoroughly after handling.
Avoid contact with skin and eyes.

Respiratory protection : Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure

Hand protection :	Protective gloves complying with EN 374. Minimum breakthrough time / gloves : > 480 min Nitrile rubber gloves. Minimum breakthrough time / gloves : > 480 min Minimum thickness / gloves 0,4 mm butyl-rubber Minimum breakthrough time / gloves : > 480 min Minimum thickness / gloves 0,7 mm The information is based on our own tests, on data from literature and information from protective glove producers or is based on data obtained from similar substances. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).
Eye protection :	Safety glasses with side-shields conforming to EN166
Body protection :	working clothes

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state :	liquid
Form :	aqueous dispersion
Colour :	white
Odour :	amine-like, of ammonia
Odour threshold :	Not applicable
Freezing point :	0 °C Data relate to solvent
Boiling point :	> 93 °C Data relate to solvent
Flammability :	The product is not flammable.
Lower explosion limit :	Not relevant
Upper explosive limit :	Not relevant
Flash point :	No flash point - Measure made up to the boiling point.
Ignition temperature :	Not applicable
Self-ignition temperature :	The substance or mixture is not classified as self heating.
Thermal decomposition :	Stable up to boiling point.
SADT	> 75 °C
pH value :	approx. 8,0

Viscosity (kinematic) :	95,97 mm2/s
Viscosity (dynamic) :	10 - 100 mPa.s (23 °C) Method : ISO 3219
Solubility in water :	(15 °C) partly soluble
Soluble in ... :	Organic Solvents soluble
Octanol/water partition coefficient (log Pow) :	This property is not applicable for mixtures.
Vapour pressure :	23,4 hPa (20 °C) Data relate to solvent
Density :	approx. 1,042 g/cm3 (23 °C) Method : ISO 8962
Relative Density:	approx. 1 (20 °C)
Vapour density relative to air :	Not applicable
Particle size :	The substance / product is marketed or used in a non solid or granular form.

9.2. Other information

Explosive properties :	Explosive according transport regulation : Not explosive Method : Expert judgement
Combustion number :	Not applicable
Self heating	
Oxidizing properties :	Type of oxidizing effect : The substance or mixture is not classified as oxidizing. Method : Expert judgement
Corrosion of metals	Not corrosive to metals
Evaporation rate :	not available
Minimum ignition energy :	not available
Surface tension :	not available

Further information

If necessary, information on other physical and chemical parameters is indicated in this section.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No special measures necessary if stored and handled as prescribed.

10.4. Conditions to avoid

Protect from frost.
Protect from heat/overheating.

10.5. Incompatible materials

not known

10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed

SECTION 11: Toxicological information

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

Information related to the product itself:

Acute oral toxicity :	not available
Acute dermal toxicity :	not available
Acute inhalation toxicity :	not available
Irritant effect on skin :	not available
Irritant effect on eyes :	not available
Sensitization :	not available
Repeated dose toxicity:	not available
Genetic toxicity in vitro :	not available
Carcinogenicity :	not available
Developmental toxicity/teratogenicity :	not available
Toxicity to reproduction/fertility :	not available
Specific target organ toxicity (STOT) - single exposure :	not available
Specific target organ toxicity (STOT) - repeated exposure :	not available

Aspiration hazard :
No data available

Information related to the component: 2-methyl-2H-isothiazol-3-one

Acute oral toxicity :	LD50 232 - 249 mg/kg (Rat) Method : OPPTS 870.1100 LD50 120 mg/kg (Rat) Method : OPPTS 870.1100
Acute dermal toxicity :	LD50 242 mg/kg (Rat) Method : OECD Test Guideline 402
Acute inhalation toxicity :	LC50 0,11 mg/l (4 h, Rat) Method : OECD Test Guideline 403
Irritant effect on skin :	Corrosive after 3 minutes to 1 hour of exposure (Rabbit) Method : OECD Test Guideline 404
Irritant effect on eyes :	Risk of serious damage to eyes.
Sensitization :	Probability or evidence of high skin sensitisation rate in humans (Guinea pig) Method : OECD Test Guideline 406 Probability or evidence of high skin sensitisation rate in humans (Mouse) Method : OECD Test Guideline 429
Repeated dose toxicity:	Route of application: oral (drinking water) Method : OECD Test Guideline 408
Genetic toxicity in vivo :	In vivo micronucleus test Mouse (male and female) Oral 10, 50 and 100 mg/kg Method : OECD Test Guideline 474 negative unscheduled DNA synthesis assay Rat (male and female) Oral Method : OECD Test Guideline 486 negative
Genetic toxicity in vitro :	Test type : reverse mutation assay Test system : Salmonella typhimurium Metabolic activation : with and without metabolic activation Result : negative Method : OECD Test Guideline 471 Test type : In vitro mammalian cell gene mutation test Test system : Chinese hamster ovary cells Metabolic activation : with and without metabolic activation Result : negative Method : OECD Test Guideline 476

Test type : Chromosome aberration test in vitro
Test system : Chinese hamster ovary cells
Metabolic activation : with and without metabolic activation
Result : positive
Method : OECD Test Guideline 473

Information related to the component: 5-Chloro-2-methyl-3(2H)isothiazolone mixt. with 2-Methyl-3(2H)isothiazolone

Acute dermal toxicity :	LD50 660 mg/kg (Rabbit)
Acute inhalation toxicity :	LC50 1,23 mg/l (4 h, Rat) Method : OECD Test Guideline 403
Irritant effect on skin :	Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days. (Rabbit) Method : OECD Test Guideline 404
Irritant effect on eyes :	Irreversible effects on the eye
Sensitization :	Probability or evidence of high skin sensitisation rate in humans (Mouse)
Repeated dose toxicity:	Route of application: Oral Method : OECD Test Guideline 409 Route of application: inhalation (dust/mist/fume) Method : OECD Test Guideline 413 Route of application: Dermal Method : Subchronic toxicity
Genetic toxicity in vivo :	In vivo micronucleus test Mouse (male and female) Oral 3/15/30 mg/kg bw/day Method : OECD Test Guideline 475 negative in vivo assay Drosophila melanogaster (vinegar fly) (male) Oral 52/86/258 ppm Method : OECD Test Guideline 477 negative unscheduled DNA synthesis assay Rat (male) Oral 200/500 mg/kg bw Method : OECD Test Guideline 486 negative In vivo micronucleus test Mouse (male and female) Oral 12.5/25/40/50 mg/kg bw/day Method : OECD Test Guideline 474 negative unscheduled DNA synthesis assay Rat (male) Oral 19 and 60 mg/kg bw/ day negative

Genetic toxicity in vitro :	Test type : reverse mutation assay Test system : Salmonella typhimurium Metabolic activation : with and without metabolic activation Result : positive Test type : In vitro mammalian cell gene mutation test Test system : mouse lymphoma cells Metabolic activation : with and without metabolic activation Result : positive Method : OECD Test Guideline 476 Test type : unscheduled DNA synthesis assay Test system : rat hepatocytes Result : negative Method : OECD Test Guideline 482 Test type : Chromosome aberration test in vitro Test system : Human lymphocytes Metabolic activation : with and without metabolic activation Result : positive
Assessment of mutagenicity :	Animal testing did not show any mutagenic effects.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Information related to the product itself:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.2.2. Other information

Remarks
none

SECTION 12: Ecological information

12.1. Toxicity

Information related to the product itself:

Fish toxicity :	not available
Fish toxicity (chronic) :	not available
Daphnia toxicity :	EC50 > 100 mg/l (48 h, Daphnia magna (Water flea)) Method : OECD Test Guideline 202 By analogy with a product of similar composition
Daphnia toxicity (chronic) :	not available
Algae toxicity :	not available

Bacteria toxicity : not available

Information related to the component: 2-methyl-2H-isothiazol-3-one

Fish toxicity : LC50 4,77 mg/l (96 h, Oncorhynchus mykiss (rainbow trout))
Method : OECD Test Guideline 203

Fish toxicity (chronic) : NOEC 4,93 mg/l (98 d, Oncorhynchus mykiss (rainbow trout))
Analytical monitoring : yes
Method : OECD Test Guideline 210

Daphnia toxicity : EC50 0,934 mg/l (48 h, Daphnia magna (Water flea))
Method : OECD Test Guideline 202

EC50 2,98 mg/l (48 h, Americamysis)
Method : Mysid Acute Toxicity Test

Daphnia toxicity (chronic) : NOEC 0,044 mg/l (21 d, Daphnia magna (Water flea))
Analytical monitoring : yes
Method : OECD Test Guideline 211

Algae toxicity : NOEC 0,05 mg/l (120 h, Pseudokirchneriella subcapitata (green algae))
Method : OECD Test Guideline 201

ErC50 0,072 mg/l (96 h, Skeletonema costatum (marine diatom))
Method : OECD Test Guideline 201

Bacteria toxicity : EC50 41 mg/l (3 h, activated sludge)
Method : OECD Test Guideline 209

Information related to the component: 5-Chloro-2-methyl-3(2H)isothiazolone mixt. with 2-Methyl-3(2H)isothiazolone

Fish toxicity : LC50 0,19 mg/l (96 h, Oncorhynchus mykiss (rainbow trout))

Fish toxicity (chronic) : NOEC 0,02 mg/l (35 d, Pimephales promelas (fathead minnow))
Analytical monitoring : yes

Daphnia toxicity : EC50 0,16 mg/l (48 h, Daphnia magna (Water flea))

Daphnia toxicity (chronic) : NOEC 0,1 mg/l (21 d, Daphnia magna (Water flea))
Analytical monitoring : yes

Algae toxicity : ErC50 0,0052 mg/l (48 h, Skeletonema costatum (marine diatom))
Method : OECD Test Guideline 201

NOEC 0,00049 mg/l (48 h, Skeletonema costatum (marine diatom))
Method : OECD Test Guideline 201

Bacteria toxicity : EC50 4,5 mg/l (3 h, activated sludge)
Method : OECD Test Guideline 209

12.2. Persistence and degradability

Information related to the product itself:

Physico-chemical eliminability :	not available
Biodegradability :	91,18 % (28 d, COD decrease) Method : OECD Test Guideline 302B
Chemical oxygen demand (COD) :	719,67 mg/g Method : Chemical oxygen demand
Biochemical oxygen demand (BOD5) :	60,93 mg/g 5 d

Information related to the component: 2-methyl-2H-isothiazol-3-one

Biodegradability :	(29 d) Not readily biodegradable. Method : OECD Test Guideline 301B

Information related to the component: 5-Chloro-2-methyl-3(2H)isothiazolone mixt. with 2-Methyl-3(2H)isothiazolone

Biodegradability :	62 % (29 d) Biodegradable, but failing 10-d window Method : OECD Test Guideline 301B

12.3. Bioaccumulative potential

Information related to the product itself:

Bioaccumulation:	No information is available on the mixture "as is". If relevant information is available on the substances listed in Chapter 3, it is reported here.

12.4. Mobility in soil

Information related to the product itself:

Transport and distribution between environmental compartments :	No information is available on the mixture "as is". If relevant information is available on the substances listed in Chapter 3, it is reported here.

Behaviour in environmental compartments

This material does neither contain nor was it manufactured using ozone-depleting chemicals.

12.5. Results of PBT and vPvB assessment

Information related to the product itself:

No information is available on the mixture "as is". If relevant information is available on the substances listed in Chapter 3, it is reported here.

12.6. Endocrine disrupting properties

Information related to the product itself:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

Information related to the product itself:

Additional ecotoxicological remarks
Product must not be released into water without pre-treatment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product
Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities

Uncleaned packaging
Uncontaminated packaging may be reused
Packaging material which cannot be cleaned is to be disposed of in the same way as the substance.

SECTION 14: Transport information

Section 14.1. to 14.5.

ADR	not restricted
ADN	not restricted
RID	not restricted
IATA	not restricted
IMDG	not restricted

14.6. Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

Other regulations

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

15.2. Chemical safety assessment

Chemical Safety Assessments (CSAs) are available for one or more of the component substances contained in this product.

SECTION 16: Other information

Observe national and local legal requirements

List of the text of the hazard statements mentioned section 3 (H-phrases) :

H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Legend

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AOX	Adsorbable organic bound halogens
CAS	Chemical Abstracts Service
DMEL	Derived Minimal Effect Level (genotoxic substances)
DNEL	Derived No Effect Level
EC50	Half maximal effective concentration
GHS	Globally Harmonized System
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOEC	Non Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, Toxic
PEC	Predicted Environmental Concentration

PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	International Rule for Transport of Dangerous Substances by Railway
SVHC	Substances of Very High Concern
vPvB	very Persistent and very Bioaccumulative