

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 23.01.2024

Version: 4.0

Date / Previous version: 03.03.2023

Previous version: 3.0

Product: **n-BUTYL ACETATE**

(ID no. 30034818/SDS_GEN_UA/EN)

Date of print 07.10.2025

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

1.1. Product identifier

n-BUTYL ACETATE

Chemical name: n-Butyl acetate

INDEX-Number: 607-025-00-1

CAS Number: 123-86-4

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

Relevant identified uses: solvent(s)

1.3. Details of the supplier of the safety data sheet

Company:

«BASF T.O.V.» LLC

139, Velyka Vasylkivska str

Kyiv

UKRAINE

03150

Telephone: +38 044 591 55 95 (96)

E-mail address: basf.ukraine@basf.com

1.4. Emergency telephone number

Telephone: +49 180 22 73 11 20

0 800 30 72 72 (valid from Ukraine only !!)

Telefax number: +38 044 591 55 97

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3

H226 Flammable liquid and vapour.

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STOT SE 3

H336 May cause drowsiness or dizziness.

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word:

Warning

Hazard Statement:

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

Precautionary Statements (Prevention):

P271 Use only outdoors or in a well-ventilated area.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves and eye protection or face protection.

Precautionary Statements (Response):

P312 Call a POISON CENTER or physician if you feel unwell.

Precautionary Statements (Storage):

P233 Keep container tightly closed.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Labeling of special preparations (GHS):

EUH066: Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

See section 12 - Results of PBT and vPvB assessment.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Chemical nature

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n-butyl acetate

Content (W/W): $\geq 99,5 \%$
CAS Number: 123-86-4
EC-Number: 204-658-1
INDEX-Number: 607-025-00-1

Flam. Liq. 3
STOT SE 3 (drowsiness and dizziness)
H226, H336
EUH066

Regulatory relevant ingredients**n-butyl acetate**

Content (W/W): $\geq 99,5 \%$ - $\leq 99,8 \%$
CAS Number: 123-86-4
EC-Number: 204-658-1
INDEX-Number: 607-025-00-1

Flam. Liq. 3
STOT SE 3 (drowsiness and dizziness)
H226, H336
EUH066

butan-1-ol

Content (W/W): $\geq 0,15 \%$ - $\leq 0,15 \%$
CAS Number: 71-36-3
EC-Number: 200-751-6

Flam. Liq. 3
Acute Tox. 4 (oral)
Skin Corr./Irrit. 2
Eye Dam./Irrit. 1
STOT SE 3 (drowsiness and dizziness)
STOT SE 3 (irr. to respiratory syst.)
H226, H318, H315, H302, H336, H335

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

3.2. Mixtures

Not applicable

SECTION 4: First-Aid Measures**4.1. Description of first aid measures**

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

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On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: Danger of drowsiness and dizziness.

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
(Further) symptoms and / or effects are not known so far

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

dry powder, water spray, carbon dioxide, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

Use extinguishing measures to suit surroundings.

5.2. Special hazards arising from the substance or mixture

Advice: Flammable liquid Cool endangered containers with water-spray. See SDS section 7 - Handling and storage.

5.3. Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus. Special protective equipment for firefighters

Further information:

Evacuate area of all unnecessary personnel. Fight fire from maximum distance.

Extend fire extinguishing measures to the surroundings. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental Release Measures

| High risk of slipping due to leakage/spillage of product.

| Release of substance/product can cause fire or explosion. Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

| Pack in tightly closed containers for disposal.

6.1. Personal precautions, protective equipment and emergency procedures

| Handle in accordance with good industrial hygiene and safety practice.

| Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

6.2. Environmental precautions

| Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

| Pick up with suitable appliance and dispose of. Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

| Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

| Avoid all sources of ignition: heat, sparks, open flame. Ground all transfer equipment properly to prevent electrostatic discharge.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place.

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.

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SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

| No substance specific occupational exposure limits known.

PNEC

freshwater: 0,18 mg/l

marine water: 0,018 mg/l

intermittent release: 0,36 mg/l

STP: 35,6 mg/l

sediment (freshwater): 0,981 mg/kg

sediment (marine water): 0,0981 mg/kg

soil: 0,0903 mg/kg

DNEL

worker:

Short-term exposure - local effects, Inhalation: 600 mg/m³

worker:

Long-term exposure - local effects, Inhalation: 300 mg/m³

consumer:

Short-term exposure - local effects, Inhalation: 300 mg/m³

consumer:

Long-term exposure - local effects, Inhalation: 35,7 mg/m³

worker:

Long-term exposure- systemic effects, dermal: 11 mg/kg

worker:

Short-term exposure - systemic effects, dermal: 11 mg/kg

consumer:

Long-term exposure- systemic effects, dermal: 6 mg/kg

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consumer:

Short-term exposure - systemic effects, dermal: 6 mg/kg

consumer:

Long-term exposure- systemic effects, oral: 2 mg/kg

consumer:

Short-term exposure - systemic effects, oral: 2 mg/kg

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

butyl rubber (butyl) - 0.7 mm coating thickness

Manufacturer's directions for use should be observed because of great diversity of types.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Avoid inhalation.

Environmental exposure controls

All appropriate measures must be taken to prevent the release of this product to the environment and to limit the dispersion of any release when it occurs. Suitable risk management measures should be in place.

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SECTION 9: Physical and Chemical Properties**9.1. Information on basic physical and chemical properties**

State of matter:	liquid	
Form:	liquid	
Colour:	colourless	
Odour:	fruity	
Odour threshold:		
	not determined	
Melting point:	-78 °C	
	Literature data.	
Boiling point:	124 - 126,5 °C	
	(1.013 hPa)	
	Literature data.	
Flammability:	Flammable.	(derived from flash point)
Lower explosion limit:		
	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:		
	For liquids not relevant for classification and labelling.	
Flash point:	27 °C	(Directive 92/69/EEC, A.9, closed cup) (DIN 51794)
Auto-ignition temperature:	415 °C	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
pH value:		
	not applicable	
Viscosity, kinematic:	0,83 mm ² /s	(OECD Guideline 114)
	(20 °C)	
Thixotropy:	not thixotropic	
Solubility in water:	pH 6	(Directive 92/69/EEC, A.6)
	5,3 g/l	
	(20 °C)	
Solubility (qualitative) solvent(s):	organic solvents	
	soluble	
Partitioning coefficient n-octanol/water (log Kow):	2,3	(OECD Guideline 117)
	(25 °C; pH value: 7)	
Vapour pressure:	15 hPa	(measured)
	(20 °C)	
	Extrapolated value, static	
Relative density:	0,8813	
	(20 °C)	
	Literature data.	
Density:	0,8812 g/cm ³	(DIN 51757)
	(20 °C)	
	0,54 g/cm ³	
	(55 °C)	
Relative vapour density (air):	4	(calculated)
	(20 °C)	
	Heavier than air.	

Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form. -

9.2. Other information**Information with regard to physical hazard classes**Explosives

Explosion hazard: not explosive

Impact sensitivity:

Based on the chemical structure there is no shock-sensitivity.

Oxidizing properties

Fire promoting properties: not fire-propagating

Flammable liquids

Sustained combustibility:

not determined

Pyrophoric properties

Self-ignition temperature:

Test type: Spontaneous self-ignition at room-temperature.

Based on its structural properties the product is not classified as self-igniting.

Self-heating substances and mixtures

Self heating ability: It is not a substance capable of spontaneous heating.

Substances and mixtures, which emit flammable gases in contact with water

Formation of flammable gases:

Forms no flammable gases in the presence of water.

Corrosion to metals

No corrosive effect on metal.

Other safety characteristics

pKA:

Study technically not feasible.

Adsorption/water - soil:

KOC: 18,54; log KOC: 1,27

(calculated)

Surface tension:

Based on chemical structure, surface activity is not to be expected.

Molar mass:

116,16 g/mol

SAPT-Temperature:

Study scientifically not justified.

Evaporation rate:

Value can be approximated from Henry's Law Constant or vapor pressure.

SECTION 10: Stability and Reactivity

10.1. Reactivity

| When heated can give off ignitable vapours.

Corrosion to metals: No corrosive effect on metal.

Formation of Remarks:

flammable gases:

Forms no flammable gases in the presence of water.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

Reacts with strong oxidizing agents.

10.4. Conditions to avoid

Avoid sources of ignition.

10.5. Incompatible materials

Substances to avoid:

strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

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

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): 10.736 mg/kg (other)

LC50 rat (by inhalation): > 21,1 mg/l 4 h (OECD Guideline 403)

The vapour was tested.

LC0 rat (by inhalation): > 38,32 mg/l > 8000 ppm 6 h (other)

The vapour was tested.

LD50 rabbit (dermal): > 14.000 mg/kg (other)

Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation

rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

Guinea pig maximization test guinea pig: Non-sensitizing. (other)

Germ cell mutagenicity

Assessment of mutagenicity:

No mutagenic effect was found in various tests with microorganisms and mammalian cell culture.

The substance was not mutagenic in studies with mammals.

Carcinogenicity

Assessment of carcinogenicity:

Study does not need to be conducted.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Experiences in humans

Experimental/calculated data:

High concentrations have a narcotizing effect.

Prolonged contact can result in drying of the skin.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation.

Aspiration hazard

No aspiration hazard expected.

Interactive effects

No data available.

11.2. Information on other hazardsEndocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

Other information

Other relevant toxicity information

Has a degreasing effect on skin.

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

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) 18 mg/l, *Pimephales promelas* (Fish test acute, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

Aquatic invertebrates:

EC50 (48 h) 44 mg/l, *Daphnia* sp. (*Daphnia* test acute, static)

Nominal concentration.

Aquatic plants:

EC50 (72 h) 397 mg/l (growth rate), *Pseudokirchneriella subcapitata* (DIN 38412 Part 9)

The statement of the toxic effect relates to the analytically determined concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Microorganisms/Effect on activated sludge:

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EC50 (40 h) 356 mg/l, *Tetrahymena pyriformis* (internal method, aquatic)

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) 23 mg/l, *Daphnia magna* (OECD Guideline 211, semistatic)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Assessment of terrestrial toxicity:

No toxic effects have been observed in studies with terrestrial plants.

Soil living organisms:

No data available.

Terrestrial plants:

EC50 (14 d) > 1.000 mg/kg > 1.000 mg/kg, *Lactuca sativa* (OECD Guideline 208)

Other terrestrial non-mammals:

No data available.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Readily biodegradable (according to OECD criteria).

Elimination information:

80 % BOD of the ThOD (5 d) (OECD 301D; 92/69/EEG, C.4-E) (aerobic, municipal sewage treatment plant effluent)

Assessment of stability in water:

In contact with water the substance will hydrolyse slowly.

Information on Stability in Water (Hydrolysis):

t_{1/2} 782 d, (calculated, pH 7)

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).

Bioaccumulation potential:

No data available.

12.4. Mobility in soil

Assessment transport between environmental compartments:

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Volatility: The substance will slowly evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is not expected.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Self classification

12.6. Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

12.7. Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.8. Additional information

Adsorbable organically-bound halogen (AOX):
This product contains no organically-bound halogen.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

SECTION 14: Transport Information

Land transport

ADR

UN number or ID number: UN1123

UN proper shipping name: BUTYL ACETATES

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Transport hazard class(es): 3
Packing group: III
Environmental hazards: no
Special precautions for user: Tunnel code: D/E

RID

UN number or ID number: UN1123
UN proper shipping name: BUTYL ACETATES

Transport hazard class(es): 3
Packing group: III
Environmental hazards: no
Special precautions for user: None known

Inland waterway transport**ADN**

UN number or ID number: UN1123
UN proper shipping name: BUTYL ACETATES

Transport hazard class(es): 3
Packing group: III
Environmental hazards: no
Special precautions for user: None known

Transport in inland waterway vessel

UN number or ID number: UN1123
UN proper shipping name: BUTYLACETATES (n-BUTYLACETATE)

Transport hazard class(es): 3, N3
Packing group: III
Environmental hazards: yes
Type of inland waterway vessel: N
Cargo tank design: 3
Cargo tank type: 2

Sea transport**IMDG**

UN number or ID number: UN 1123
UN proper shipping name: BUTYL ACETATES

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Transport hazard class(es): 3
Packing group: III
Environmental hazards: no
Marine pollutant: NO
Special precautions for user: EmS: F-E; S-D

Air transport

IATA/ICAO

UN number or ID number: UN 1123
UN proper shipping name: BUTYL ACETATES

Transport hazard class(es): 3
Packing group: III
Environmental hazards: No Mark as dangerous for the environment is needed
Special precautions for user: None known

14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Maritime transport in bulk according to IMO instruments

Regulation: IBC-Code

Product name: Butyl acetate (all isomers)
Pollution category: Y

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Ship Type: 3

SECTION 15: Regulatory Information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

SECTION 16: Other Information

Assessment of the hazard classes according to UN GHS criteria (most recent version)

Flam. Liq. 3

STOT SE 3 (May cause drowsiness and dizziness.)

Aquatic Acute 3

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Flam. Liq.	Flammable liquids
STOT SE	Specific target organ toxicity — single exposure
Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H335	May cause respiratory irritation.
EUH066	Repeated exposure may cause skin dryness or cracking.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution

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from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

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Vertical lines in the left hand margin indicate an amendment from the previous version.