

MARLOX RT 42

Version: 4.00

Date of first issue: 2007/10/18

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****Trade name** Marlox RT 42**1.2 Relevant identified uses of the substance or mixture and uses advised against****Use of the Substance/Mixture** Industrial use, Emulsifier**Uses advised against****1.3 Details of the supplier of the safety data sheet****Company** SASOL Germany GmbH
Anckelmannsplatz 1
20537 Hamburg
GermanyTelephone: +49 40 63684-1000
Telefax: +49 40 63684-3700**Information (Product safety)** E-mail: msds-info.germany@de.sasol.com**1.4 Emergency telephone number****Emergency telephone number** + 49 (0) 23 65 - 49 22 32
+44 1235 239670 Europe
+44 1235 239671 Middle East, Africa
+1 215 207 0061 North America, South America
+65 3158 1074 Asia Pacific Region
+44 1865 407333 Global (english)**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Long-term (chronic) aquatic hazard Category 3 Harmful to aquatic life with long lasting effects.

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)****Hazard statements**
H412

Harmful to aquatic life with long lasting effects.

Precautionary statements
P273
P501

Avoid release to the environment.

Dispose of contents/ container to an approved waste disposal plant.

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Hazardous components which must be listed on the label:

- Alcohols, C16-18 , ethoxylated propoxylated (≥ 2.5 EO/PO)

Remarks on classification and labelling

This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: 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.

Toxicological information: 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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

This product is a substance in the meaning of regulation (EC) 1907/2006.

COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES**Alcohols, C16-18 , ethoxylated propoxylated (≥ 2.5 EO/PO)****content:** ≥ 90 - ≤ 100 %**component type:** Active ingredient**EC-No.:** 614-209-5**Index-No.:****CAS-No.:** 68002-96-0**REACH No.:** Not relevant (polymer)**Classification (Regulation (EC) No 1272/2008)**

Aquatic Chronic

3

H412

For information on ingredients listed on the candidate list (Candidate List of Substances of Very High Concern for Authorisation) or in the list of substances subject to authorization (Annex XIV of Regulation (EC) No 1907/2006), see section 15.1. of this data sheet.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

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General advice	Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible).
If inhaled	Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
In case of skin contact	Wash off with plenty of water.
In case of eye contact	Rinse with plenty of water.
If swallowed	Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
Risks	No information available.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media**Suitable extinguishing media** Water spray, Dry powder, Foam, Carbon dioxide (CO₂)**5.2 Special hazards arising from the substance or mixture****Specific hazards during firefighting** Dangerous gases or fumes may occur in case of fire.**5.3 Advice for firefighters****Special protective equipment for firefighters** Wear self-contained breathing apparatus for firefighting if necessary.**Further information** Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures**Personal precautions** Use personal protective equipment.**Special precautions** Forms slippery/greasy layers with water.**6.2 Environmental precautions****Environmental precautions** Should not be released into the environment.**6.3 Methods and materials for containment and cleaning up****Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).**6.4 Reference to other sections**

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For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	Wear personal protective equipment. Avoid contact with skin and eyes.
Advice on protection against fire and explosion	Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	No special storage conditions required.
Other data	Protect from frost, heat and sunlight.

7.3 Specific end use(s)

Specific use(s)	This information is not available.
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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters**COMPONENTS WITH WORKPLACE CONTROL PARAMETERS****National occupational exposure limits**

Contains no substances with occupational exposure limit values.
No data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

DERIVED NO EFFECT LEVEL (DNEL)

Substance name: Alcohols, C16-18 , ethoxylated propoxylated (>= 2.5 EO/PO)
No data available

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: Alcohols, C16-18 , ethoxylated propoxylated (>= 2.5 EO/PO)
No data available

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8.2 Exposure controls**PERSONAL PROTECTIVE EQUIPMENT**

Respiratory protection	No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.
Hand protection	<p>Material: butyl-rubber Break through time: \geq 480 min Glove thickness: \geq 0.7 mm</p> <p>Material: Nitrile rubber Break through time: \geq 30 min Glove thickness: \geq 0.4 mm</p> <p>The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.</p> <p>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).</p>
Eye protection	Safety glasses
Skin and body protection	Wear suitable protective equipment.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Protective measures	General industrial hygiene practice.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice	Should not be released into the environment.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Physical state: liquid; 20 °C; 1,013 hPa Shape: liquid
Colour	cloudy
Odour	neutral
Odour Threshold	No data available

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Melting point/range	12 °C
Initial boiling point and boiling range	> 350 °C; 1,013 hPa; Decomposes below the boiling point.
Flammability	not applicable (liquid)
Upper explosion limit	No data available
Lower explosion limit	No data available
Flash point	> 200 °C
Auto-ignition temperature	> 350 °C
pH	5 - 7; 20 g/l
Viscosity	
Viscosity, dynamic	70 mPas; 20 °C
Solubility(ies)	
Water solubility	dispersible
Partition coefficient: n-octanol/water	Not applicable Justification: surface-active substance
Vapour pressure	< 0.05 hPa; 50 °C
Density	0.934 g/cm ³ ; 20 °C
Relative vapour density	> 1

9.2 Other information

Explosives	Constituents do not contain chemical groups associated with explosivity.
Oxidizing properties	not expected based on structure and functional groups
Self-ignition	not auto-flammable
Evaporation rate	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Note	No decomposition if stored and applied as directed.
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10.2 Chemical stability

Note	Stable under normal conditions.
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10.3 Possibility of hazardous reactions

Hazardous reactions	None known.
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10.4 Conditions to avoid

Conditions to avoid	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.
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10.5 Incompatible materials to avoid

Materials to avoid Strong acids and oxidizing agents;

10.6 Hazardous decomposition products

Hazardous decomposition products Stable under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity

Not classified based on available information.

Acute oral toxicity	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 423 Category approach Based on available data, the classification criteria are not met.
Acute inhalation toxicity	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): No data available
Acute dermal toxicity	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): Based on available data, the classification criteria are not met. Justification: Data are available from alternate exposure routes. The substance or mixture has no acute oral toxicity

Skin corrosion/irritation

Not classified based on available information.

Skin irritation	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): Rabbit: Mild skin irritation; OECD Test Guideline 404 Category approach Based on available data, the classification criteria are not met.
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Serious eye damage/eye irritation

Not classified based on available information.

Eye irritation	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): Rabbit: slightly irritating; OECD Test Guideline 405 Category approach Based on available data, the classification criteria are not met.
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Skin sensitisation / Respiratory sensitisation

Skin contact: Not classified based on available information.

Inhalation: Not classified based on available information.

Sensitisation	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): not expected based on structure and functional groups
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Germ cell mutagenicity

Not classified based on available information.

Genotoxicity in vitro	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO):
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not expected based on structure and functional groups

Genotoxicity in vivo *Alcohols, C16-18, ethoxylated propoxylated* (≥ 2.5 EO/PO):
No data available

Carcinogenicity

Not classified based on available information.

Carcinogenicity *Alcohols, C16-18, ethoxylated propoxylated* (≥ 2.5 EO/PO):
This information is not available.

Reproductive toxicity

Not classified based on available information.

Effects on fertility *Alcohols, C16-18, ethoxylated propoxylated* (≥ 2.5 EO/PO):
This information is not available.

Effects on foetal development *Alcohols, C16-18, ethoxylated propoxylated* (≥ 2.5 EO/PO):
This information is not available.

STOT - single exposure

Not classified based on available information.

Assessment *Alcohols, C16-18, ethoxylated propoxylated* (≥ 2.5 EO/PO):
The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Not classified based on available information.

Assessment *Alcohols, C16-18, ethoxylated propoxylated* (≥ 2.5 EO/PO):
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity *Alcohols, C16-18, ethoxylated propoxylated* (≥ 2.5 EO/PO):
No data available

Aspiration hazard

Not classified based on available information.

Aspiration toxicity *Alcohols, C16-18, ethoxylated propoxylated* (≥ 2.5 EO/PO):
Not applicable

11.2 Information on other hazards

Endocrine disrupting properties 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.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

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Toxicity to fish	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): LL50 (96 h) Danio rerio (zebra fish): > 100 mg/l ; static test; OECD Test Guideline 203 Category approach
Toxicity to fish - Chronic toxicity	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): No data available
Toxicity to daphnia and other aquatic invertebrates	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): EC50 (48 h) Daphnia magna (Water flea): $> 10 - 100$ mg/l ; static test; OECD Test Guideline 202
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): No data available
Toxicity to aquatic plants	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): EC50 (72 h) Pseudokirchneriella subcapitata (algae): $> 10 - 100$ mg/l ; Growth rate; static test; OECD Test Guideline 201; Category approach <i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): EC10 (72 h) Pseudokirchneriella subcapitata (algae): $> 0.1 - 1$ mg/l ; Growth rate; static test; OECD Test Guideline 201; Category approach
Toxicity to bacteria	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): No data available
Toxicity to soil dwelling organisms	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): No data available
Plant toxicity	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): No data available
12.2 Persistence and degradability	
Biodegradability	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B Category approach
12.3 Bioaccumulative potential	
Bioaccumulation	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): No data available
12.4 Mobility in soil	
Distribution among environmental compartments	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): No data available
12.5 Results of PBT and vPvB assessment	
Results of PBT assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Results of PBT assessment	<i>Alcohols, C16-18, ethoxylated propoxylated</i> (≥ 2.5 EO/PO): This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB). Category approach
12.6 Endocrine disrupting properties	
Endocrine disrupting potential	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.



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12.7 Other adverse effects

Additional ecological information

Alcohols, C16-18, ethoxylated propoxylated (>= 2.5 EO/PO):
Harmful to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product	Can be incinerated, when in compliance with local regulations.
Contaminated packaging	Empty remaining contents.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.2 UN proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.3 Transport hazard class(es)

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.4 Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.5 Environmental hazards

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no

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ADN	Environmentally hazardous	no
IMDG	Marine pollutant	no
ICAO/IATA	Environmentally hazardous	no

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

Remarks	No information available.
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SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU PIC: Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals**

Not applicable

EU SVHC: REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Not applicable

EU. REACH-Annex XIV: REACH - List of substances subject to authorisation (Annex XIV)

Not applicable

EC 1005/2009: Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

Not applicable

EU POP: Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Not applicable

UK. REACH Annex XIV: UK REACH List of substances subject to authorisation (Annex XIV)

Not applicable

UK SVHC: UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation

Not applicable

GB POPs: The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)

Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Number on list: 3

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See Annex XVII to Regulation (EC) no 1907/2006 and amendments for Conditions of restriction

Legislation on the control of major-accident hazards involving dangerous substances

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

list entry in the directive:: Not applicable

Notification status

Australian Inventory of Industrial Chemicals	ZAU_AIIC	listed (product or constituents are listed)
Canadian Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC	listed (product or constituents are listed)
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	listed (product or constituents are listed)
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	listed (product or constituents are listed)
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	listed (product or constituents are listed)
Taiwan Chemical Substance Inventory (TCSI)	ZTW_INV	listed (product or constituents are listed)
United States TSCA Inventory	TSCA	listed (product or constituents are listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2 Chemical safety assessment

Alcohols, C16-18 , ethoxylated propoxylated (>= 2.5 EO/PO)

A Chemical Safety Assessment is not required for this substance (exempted from obligation to register).

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H412 Harmful to aquatic life with long lasting effects.

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Safety datasheet sections which have been updated:

1. Identification of the substance/mixture and of the company/undertaking
2. Hazards identification
3. Composition/information on ingredients
4. First aid measures
9. Physical and chemical properties
11. Toxicological information
12. Ecological information
15. Regulatory information

Further information:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Key or legend to abbreviations and acronyms used in the safety data sheet

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC...	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC...	Lethal Concentration, ...%
LD...	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
vPvB	very persistent, very bioaccumulative
WGK	Wassergefährdungsklasse



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