

CENTRADET N237/9

Version: 8.00

Revision Date 2013/10/10

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Trade name	CENTRADET N237/9
INCI	Laureth-7
Substance name (REACH / CLP)	Alcohols, C12-13- branched and linear, ethoxylated (CAS: 160901-19-9)

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

Use	industrial use raw material for washing and cleaning agents raw material for textile auxiliary agents surface-active substance raw material for personal care products
Uses advised against	

1.3 Details of the supplier of the safety data sheet

Company	Central Chemical Supplies Ltd 44 Hall Road, Donaghcloney Co. Armagh, Northern Ireland, BT66 7LJ Telephone: +442838881936 Telefax: +442838882335
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E-mail:	info@ccsni.co.uk
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1.4 Emergency telephone number

Emergency telephone number	+ 44 7872501842
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SECTION 2: HAZARDS**IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity Category 4 (Oral)	Harmful if swallowed.
Serious eye damage Category 1	Causes serious eye damage.
Chronic aquatic toxicity Category 3	Harmful to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Irritant	Risk of serious damage to eyes.
Harmful	Harmful if swallowed.

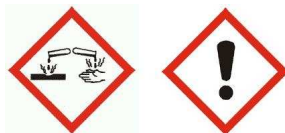
2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

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Hazard pictograms



Signal word

Danger

Hazard statements

H302 Harmful if swallowed.
 H318 Causes serious eye damage.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P264 Wash skin thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear eye protection/ face protection.
 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.
 P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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, C12-13- branched and linear, ethoxylated (>5 - <15 EO)

content: >= 90 %		component type: Active ingredient
EC-No.: 931-954-4	Index-No.:	CAS-No.: 160901-19-9
REACH No.: Not relevant (polymer)		
Substance name (REACH / CLP): Alcohols, C12-13- branched and linear, ethoxylated (CAS: 160901-19-9)		
Classification (Directive 67/548/EEC):	Xn Xi	R22; R41;
Classification (Regulation (EC) No 1272/2008):	Acute Tox. 4 (Oral) Eye Dam. 1 Aquatic Chronic 3	H302 H318 H412

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

Other data Synonyms: Alcohols, C10-16, ethoxylated; CAS-No.: 68002-97-1

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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	If you feel unwell, seek medical advice (show the label where possible). Take off all contaminated clothing immediately.
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 immediately with plenty of water. Consult a physician if necessary.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed	Symptoms: No information available. Risks: No information available.
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4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed	Treatment: No information available.
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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water spray, Dry powder, Foam, Carbon dioxide (CO2)
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Dangerous gases or fumes may occur in case of fire.
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5.3 Advice for firefighters

Special protective equipment for firefighters	Wear self contained breathing apparatus for fire fighting 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.
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6.2 Environmental precautions

Environmental precautions	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
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6.3 Methods and materials for containment and cleaning up

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Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). The material taken up must be disposed of in accordance with regulations.

6.4 Reference to other sections

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.
Do not spray on a naked flame or any incandescent material.

Fire-fighting class

B: Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep tightly closed in a dry and cool place.

Storage class (TRGS 510)

10: Combustible liquids not in Storage Class 3

Other data

Stable at normal ambient temperature and pressure.

7.3 Specific end use(s)

Specific use(s)

This information is not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

no data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

no data available

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

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Hand protection	<p>ABEK-P2), in compliance with EN 141.</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., 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> <p>gloves suitable for permanent contact: Material: butyl-rubber Break through time: >= 480 min Material thickness: >= 0.7 mm</p> <p>gloves suitable for splash protection: Material: Nitrile rubber/nitrile latex Break through time: >= 30 min Material thickness: >= 0.4 mm</p>
Eye protection	Tightly fitting safety goggles, Safety glasses with side-shields
Skin and body protection	Protective suit
Hygiene measures	Avoid contact with the skin and the eyes. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke.
Protective measures	Avoid contact with the skin and the eyes. Wear suitable gloves and eye/face protection.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid; 20 °C; 1,013 hPa
Form	liquid
Colour	cloudy
Odour	neutral
Odour Threshold	no data available
pH	5 - 7; 20 g/l; 20 °C
Melting point/range	ca. 11 °C
Boiling point/boiling range	not applicable
Flash point	ca. 198 °C; DIN 51376
Evaporation rate	no data available

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Flammability (solid, gas)	not applicable (liquid)
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Relative vapour density	no data available
Density	ca.0.99 g/cm ³ ; 40 °C
Water solubility	completely miscible
Partition coefficient: n-octanol/water	not applicable Justification: surface-active substance
Ignition temperature	ca. 320 °C; DIN 51794
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	ca. 30 mPas; 40 °C
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	not expected based on structure and functional groups

9.2 Other data

None known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Note Stable at normal ambient temperature and pressure.

10.2 Chemical stability

Note No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions None known.

10.4 Conditions to avoid

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

10.5 Incompatible materials to avoid

Materials to avoid Strong acids and oxidizing agents;

10.6 Hazardous decomposition products

Hazardous decomposition products No decomposition if stored normally.

Thermal decomposition Hazardous decomposition products formed under fire conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

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11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO):
LD50 rat: > 300 - 2,000 mg/kg
Category approach
own test results/literature values
Harmful if swallowed.

Acute inhalation toxicity Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO):
no data available

Acute dermal toxicity Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO):
LD50 rabbit: > 2,000 mg/kg;
Category approach
(literature value)
Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Skin irritation Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO):
rabbit: not irritating
Category approach
own test results/literature values
Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Eye irritation Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): rabbit:
Irreversible effects on the eye
own test results/literature
values Category approach
Causes serious eye damage.

Respiratory or skin sensitisation

Sensitisation Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO):
Maximisation Test guinea pig: not sensitizing
Category approach
(literature value)
Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity in vitro Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO):
In vitro tests did not show mutagenic effects
Category approach
own test results/literature values

Genotoxicity in vivo Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO):
In vivo tests did not show mutagenic effects
Category approach
(literature value)

Remarks Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO):
Based on available data, the classification criteria are not met.

Carcinogenicity

Carcinogenicity Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO):
The substance has been shown to be not genotoxic, therefore it is not expected to
have a carcinogenic potential.
Category approach
(literature value)

Remarks Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO):
Based on available data, the classification criteria are not met.

Reproductive toxicity

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Reproductive toxicity	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): Two-generation reproductive toxicity: rat NOAEL ((parents)): > 250 mg/kg (based on body weight and day) NOAEL (F1): > 250 mg/kg (based on body weight and day) NOAEL (F2): > 250 mg/kg (based on body weight and day) Category approach (literature value)
RemarksReproductive toxicity	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): Based on available data, the classification criteria are not met.
Teratogenicity	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): rat; Oral NOAEL: > 50 mg/kg (based on body weight and day) NOAEL (dam): 50 mg/kg (based on body weight and day); Two-generation reproductive toxicity Category approach (literature value)
Remarks-Teratogenicity	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): rat; Dermal NOAEL: > 250 mg/kg (based on body weight and day) NOAEL (dam): 250 mg/kg (based on body weight and day); Two-generation reproductive toxicity Category approach (literature value)
STOT - single exposure	
Remarks	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	
Remarks	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): rat; Oral; 2 years NOAEL: 50 mg/kg (based on body weight and day) Target Organs: Heart, Liver, Kidney Symptoms: reduced body weight gain, increased relative organ weights Category approach (literature value)
Aspiration hazard	
Aspiration toxicity	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): not applicable
Toxicological information	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): Toxicokinetics Category approach The substance is expected to be rapidly absorbed and excreted. (literature value)

SECTION 12: ECOLOGICAL INFORMATION

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12.1 Toxicity

Toxicity to fish	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): LC50 (96 h) Cyprinus carpio (Carp): > 1 - 10 mg/l; flow-through test; OECD Test Guideline 203 own test results/literature values Category approach
Toxicity to fish - Chronic toxicity	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): EC10 Pimephales promelas (fathead minnow): 0.21 mg/l; mortality (literature value) Category approach
Toxicity to daphnia and other aquatic invertebrates	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): EC50 (48 h) Daphnia magna (Water flea): > 1 - 10 mg/l; static test; OECD Test Guideline 202 own test results/literature values Category approach
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): EC10 Daphnia magna (Water flea): 0.36 mg/l; Reproduction Test; OECD Test Guideline 211; (literature value) Category approach
Toxicity to aquatic plants	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): EC50 (72 h) Desmodesmus subspicatus (green algae): > 1 - 10 mg/l; ; static test; OECD Test Guideline 201; own test results/literature values Category approach
Toxicity to bacteria	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): EC50 activated sludge: 140 mg/l; Respiration inhibition Category approach (literature value)
Toxicity to terrestrial flora	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): emergence, growth; NOEC: 10 mg/kg; Lepidium sativum (cress); OECD Test Guideline 208 own test results/literature values Category approach
Toxicity for other terrestrial non-mammalian fauna	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): study scientifically unjustified Justification: Readily biodegradable.

12.2 Persistence and degradability

Biodegradability	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301 B own test results/literature values Category approach
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12.3 Bioaccumulative potential

Bioaccumulation	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): Bioaccumulation is unlikely. (literature value)
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12.4 Mobility in soil

Mobility	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): Adsorption/Soil; Koc: > 5000; QSAR (literature value) immobile strong adsorption to soil
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12.5 Results of PBT and vPvB assessment

Results of PBT assessment	Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): Based on available data, the classification criteria are not met.
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12.6 Other adverse effects

General advice Alcohols, C12-13- branched and linear, ethoxylated (>5 - <15 EO): 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.

waste code of the European Union: A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. The waste code must be determined in agreement with the regional waste disposal authority or company.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

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

14.2 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

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

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ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
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 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks No information available.

SECTION 15: REGULATORY INFORMATION

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

Occupational restrictions Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

NATIONAL/OTHER REGULATIONS

Directive 96/82/EC on the control of major-accident hazards involving dangerous substances list entry in the directive: Dangerous for the environment
Qualifying quantity 1: 100 t; Qualifying quantity 2: 200 t;

NOTIFICATION STATUS

US. Toxic Substances Control Act	TSCA	y (positive listing)
Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	NZIOC	y (positive listing)
Japan. Kashin-Hou Law List	ENCS (JP)	y (positive listing)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	y (positive listing)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	y (positive listing)
China. Inventory of Existing Chemical Substances	INV (CN)	y (positive listing)

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, C12-13- branched and linear, ethoxylated (CAS: 160901-19-9)

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

SECTION 16: OTHER INFORMATION**Text of R-phrases mentioned in Section 3**

R22	Harmful if swallowed.
R41	Risk of serious damage to eyes.

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

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Safety datasheet sections which have been updated:

2. Hazards identification
3. Composition/information on ingredients
12. Ecological 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

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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