

SAFETY DATA SHEET



Trade name: Neodecanoic acid

Print Date: 6. January 2021

Version: 3.2, revision date: 02.01.2021

Replaced version: 3.1, revision date: 06.10.2020

Region: EN

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

1.1. Product identifier

Handelsname

Neodecanoic acid

Registration Name

Neodecanoic acid

Registration Number

01-2119449554-33

CAS-#

26896-20-8

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

Intended Use:

Chemical intermediate

Identified Uses:

Manufacture of substance

Distribution of substance

Formulation and (re)packing of substances and mixtures

Metal working fluids / rolling oils - Industrial

Mining chemicals

Metal working fluids / rolling oils - Professional

As this product is not classified it may be used in ways other than the above.

All product uses should be consistent with the safety guidance in this SDS.

Uses advised against:

None unless specified elsewhere in this SDS.

1.3. Details of the supplier of the safety data sheet

Company

SysKem Chemie GmbH

Brucknerweg 26

D-42289 Wuppertal

Telephone

+49 (0) 202/30999510

Telefax

+49 (0) 202/87088403

E-mail address

info@syskem.de

Prepared by / E-mail address of person responsible for the SDS

info@syskem.de

1.4. Emergency telephone number

Vergiftungs-Informations-Zentrale Freiburg, Tel. +49 761 19240.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not Classified

2.2. Label elements

No label elements according to Regulation (EC) No 1272/2008

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2.3. Other hazards

Physical / Chemical Hazards:

No significant hazards.

Health Hazards:

May be irritating to the eyes, nose, throat, and lungs. Repeated exposure may cause skin dryness or cracking.

Environmental Hazards:

No significant hazards. Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.

SECTION 3: Composition/information on ingredients

3.1 Substances

This material is defined as a substance.

Reportable hazardous substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

Name	CAS#	EG#	Registration#	Concentration*
Neodecanoic acid	26896-20-8	248-093-9	01-2119449554-33	100 %

GHS/CLP classification

[Acute Tox. 5 H303]

Note - any classification in brackets is a GHS building block that was not adopted by the EU in the CLP regulation (No 1272/2008) and therefore is not applicable in the EU or in non-EU countries which have implemented the CLP regulation and is shown for informational purposes only.

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Note: See SDS Section 16 for full text of hazard statements.

3.2. Mixtures

Not Applicable. This product is regulated as a substance.

SECTION 4: First aid measures

4.1. Description of first aid measures

INHALATION

Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device.

SKIN CONTACT

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.



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

No important symptoms or effects.

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

The need to have special means for providing specific and immediate medical treatment available in the workplace is not expected.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Unsuitable extinguishing media

Straight streams of water

5.2. Special hazards arising from the substance or mixture

Hazardous Combustion Products:

Incomplete combustion products, Oxides of carbon, Smoke, Fume

5.3. Advice for firefighters

Fire Fighting Instructions:

Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

FLAMMABILITY PROPERTIES

Flash Point [Method]:

>100°C (212°F) [ASTM D-93]

Upper/Lower Flammable Limits (Approximate volume % in air):

UEL: 12.4

LEL: 1.4 [In-house method]

Autoignition Temperature:

>300°C (572°F) [In-house method]

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

PROTECTIVE MEASURES

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.



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6.2. Environmental precautions

Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up**Land Spill:**

Stop leak if you can do so without risk. Do not touch or walk through spilled material. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other noncombustible material and transfer to containers. Recover by pumping or with suitable absorbent.

Water Spill:

Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

6.4. Reference to other sections

See Sections 8 and 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid contact with skin. Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Prevent small spills and leakage to avoid slip hazard. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.

Loading/Unloading Temperature: [Ambient]

Transport Temperature: [Ambient]

Transport Pressure: [Ambient]

Static Accumulator: This material is not a static accumulator.

7.2. Conditions for safe storage, including any incompatibilities

Do not store in open or unlabelled containers.

Storage Temperature: [Ambient]

Storage Pressure: [Ambient]

Suitable Materials and Coatings (Chemical Compatibility):

Stainless Steel; Polyethylene; Aluminium; Polypropylene; Phenolic Coatings

Unsuitable Materials and Coatings:

Amine Epoxy; Copper; Inorganic Zinc; Polyamide; Epoxies

7.3. Specific end use(s)

Section 1 informs about identified end-uses. No industrial or sector specific guidance available.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

Substance Name	Form	Limit/Standard	Source
Neodecanoic acid	Stable Aerosol.	TWA 5 mg/m ³	ExxonMobil
Neodecanoic acid	Vapour.	TWA 25 mg/m ³	ExxonMobil

Note: Information about recommended monitoring procedures can be obtained from the relevant agency(ies)/institute(s):
UK Health and Safety Executive (HSE)

DERIVED NO EFFECT LEVEL (DNEL)/DERIVED MINIMAL EFFECT LEVEL (DMEL)

Worker

Substance Name	Dermal	Inhalation
Neodecanoic acid	7.41 mg/kg bw/day DNEL, Chronic Exposure	22.04 mg/m ³ DNEL, Chronic

Consumer

Substance Name	Dermal	Inhalation	Oral
Neodecanoic acid	1.06 mg/kg bw/day DNEL, Chronic Exposure, Systemic Effects	6.52 mg/m ³ DNEL, Chronic Exposure, Systemic Effects	1.88 mg/kg bw/day DNEL, Chronic Exposure, Systemic Effects

Note: The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accord with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a governmental regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance Name	Aqua Fresh water	Aqua Marine water	Aqua (intermittent release)	Sewage treatment plant	Sediment	Soil	Oral (secondary poisoning)
Neodecanoic acid	0,478 mg/l	0,0478 mg/l	N/A	N/A	N/A	N/A	N/A

8.2. Exposure controls

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:
Adequate ventilation should be provided so that exposure limits are not exceeded.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.



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Respiratory Protection:

If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Half-face filter respirator Type A filter material, European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode.

Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection:

Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions.

Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

If prolonged or repeated contact is likely, chemical-resistant gloves are recommended. If contact with forearms is likely, wear gauntlet-style gloves.

Eye Protection:

If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection:

Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

Specific Hygiene Measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil.

Protect the environment by applying appropriate control measures to prevent or limit emissions.

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

Physical State:	Liquid
Form:	Clear
Colour:	Colourless
Odour:	Mild
Odour Threshold:	No data available
pH:	No data available
Melting Point:	Not technically feasible
Freezing Point:	No data available
Initial Boiling Point / and Boiling Range:	245°C (473°F) - 265°C (509°F) [ASTM D1078]
Flash Point [Method]:	>100°C (212°F) [ASTM D-93]
Evaporation Rate (n-butyl acetate = 1):	< 1 [In-house method]
Flammability (Solid, Gas):	Not technically feasible

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Upper/Lower Flammable Limits (Approximate volume % in air):

UEL: 12.4

Vapour Pressure: [N/D at 20 °C]

LEL: 1.4 [In-house method]

0.012 kPa (0.09 mm Hg) at 50°C

0.3 kPa (2.25 mm Hg) at 100°C

[In-house method]

Vapour Density (Air = 1):

> 1 at 101 kPa [Calculated]

Relative Density (at 20 °C):

0.913 [With respect to water] [Calculated]

Solubility(ies): water

Slight

Partition coefficient

(n-Octanol/Water Partition Coefficient):

3.83 [OECD 117]

Autoignition Temperature:

>300°C (572°F) [In-house method]

Decomposition Temperature:

No data available

Viscosity: [N/D at 40 °C]

40 cSt (40 mm²/sec) at 20°C [ASTM D7042]

Explosive Properties:

No data available

Oxidizing Properties:

No data available

9.2. Other information

Density (at 20 °C):

911 kg/m³ (7.6 lbs/gal, 0.91 kg/dm³) [ASTM D4052]

Molecular Weight:

172 [Calculated]

Hygroscopic:

No

Coefficient of Thermal Expansion:

0.0004 per Deg C [In-house method]

SECTION 10: Stability and reactivity

10.1. Reactivity

See sub-sections below.

10.2. Chemical stability

Material is stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Excessive heat. High energy sources of ignition.

10.5. Incompatible materials

Aldehydes, Alkanolamines, Alkylene Oxides, Amines, Ammonia, Caustics, Cyanohydrins, Inorganic acids, Monomers, Nitriles, Polymerisable esters, Strong oxidisers

10.6. Hazardous decomposition products

Material does not decompose at ambient temperatures.



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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Hazard Class	Conclusion / Remarks
Inhalation	
Acute Toxicity: (Rat) 6 hour(s) LC50 > 3 mg/l (Vapour) Test scores or other study results do not meet criteria for classification.	Minimally Toxic. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 403
Irritation: Data available.	Elevated temperatures or mechanical action may form vapours, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs. Based on test data for the material.
Ingestion	
Acute Toxicity (Rat): LD 50 2066 mg/kg Test scores or other study results do not meet criteria for classification.	Minimally Toxic. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 401
Skin	
Acute Toxicity (Rabbit): LD50 > 3640 mg/kg Test scores or other study results do not meet criteria for classification.	Minimally Toxic. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 402
Skin Corrosion/Irritation: Data available. Test scores or other study results do not meet criteria for classification.	May dry the skin leading to discomfort and dermatitis. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 404
Eyes	
Serious Eye Damage/Irritation: Data available. Test scores or other study results do not meet criteria for classification.	May cause mild, short-lasting discomfort to eyes. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 405
Sensitisation	
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.
Skin Sensitization: Data available. Test scores or other study results do not meet criteria for classification.	Not expected to be a skin sensitizer. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 406
Aspiration	
Data available	Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.
Germ Cell Mutagenicity	
Data available. Test scores or other study results do not meet criteria for classification.	Not expected to be a germ cell mutagen. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 471 473
Carcinogenicity	
No end point data for material.	Not expected to cause cancer.
Reproductive Toxicity	
Data available. Test scores or other study results do not meet criteria for classification.	Not expected to be a reproductive toxicant. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 414 416
Lactation	
No end point data for material.	Not expected to cause harm to breast-fed children.

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Specific Target Organ Toxicity (STOT)	
Single Exposure: No end point data for material.	Not expected to cause organ damage from a single exposure.
Repeated Exposure: Data available. Test scores or other study results do not meet criteria for classification.	Not expected to cause organ damage from prolonged or repeated exposure. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 407 408 410 411 412 413 452

SECTION 12: Ecological information

12.1 Toxicity

Material -- Not expected to be harmful to aquatic organisms.
Material -- Not expected to demonstrate chronic toxicity to aquatic organisms

12.2 Persistence and degradability

Biodegradation:

Material -- Expected to biodegrade slowly.

Hydrolysis:

Material -- Transformation due to hydrolysis not expected to be significant.

Photolysis:

Material -- Transformation due to photolysis not expected to be significant.

Atmospheric Oxidation:

Material -- Expected to degrade rapidly in air

12.3 Bioaccumulative potential

Material -- Potential to bioaccumulate is low.

12.4 Mobility in soil

Material -- Expected to partition to water. Some partitioning to sediment and wastewater solids.
Minimally volatile.

12.5 Results of PBT and vPvB assessment

This product is not, or does not contain, a substance that is a PBT or a vPvB.

12.6 Other adverse effects

No adverse effects are expected.

ECOLOGICAL DATA

Ecotoxicity

Test	Duration	Organism Type	Test Results
Aquatic - Acute Toxicity	48 hour(s)	Daphnia magna	EL50 > 1000 mg/l
Aquatic - Acute Toxicity	96 hour(s)	Oncorhynchus mykiss	LL50 >100 - <300 mg/l
Aquatic - Acute Toxicity	72 hour(s)	Pseudokirchneriella subcapitata	EL50 > 100 mg/l
Aquatic - Chronic Toxicity	21 day(s)	Daphnia magna	LOEC 10.1 mg/l
Aquatic - Chronic Toxicity	21 day(s)	Daphnia magna	NOEC 4.78 mg/l
Aquatic - Chronic Toxicity	14 day(s)	Oncorhynchus mykiss	NOEC >2.22 mg/l



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Persistence, Degradability and Bioaccumulation Potential

Media	Test Type	Duration	Test Results: Basis
Air	Photolysis		Half-life (t _{1/2}) 13.9 hour(s)
Sediment	Sediment Adsorption		log K _{oc} 2.08
Water	Ready Biodegradability	28 day(s)	Percent Degraded 11
Water	Bioaccumulation	14 day(s)	BCF < 225

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Suitable routes of disposal are supervised incineration, preferentially with energy recovery, or appropriate recycling methods in accordance with applicable regulations and material characteristics at the time of disposal.

The European Waste Catalogue (EWC) code is specific to the waste generating process and waste constituents. Determine the EWC according to the criteria provided in the European Waste Catalogue and the hazardous waste list established by Commission Decision 2000/532/EC, as amended.

Empty Container Warning

Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14: Transport information**14.1 UN number**

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable



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

Substance Name: NEODECANOIC ACID
Ship type required: 2
Pollution category: Y

14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)
Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)
Not subject to IMDG.

SECTION 15: Regulatory information

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

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Listed or exempt from listing/notification on the following chemical inventories:

AICS, DSL, ENCS, IECSC, KECI, PICCS, TCSI, TSCA

Applicable EU Directives and Regulations:

1907/2006 [... on the Registration, Evaluation, Authorisation and Restriction of Chemicals ... and amendments thereto]

1272/2008 [on classification, labelling and packaging of substances and mixtures.. and amendments thereto]

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

The following entries of Annex XVII may be considered for this product: None

15.2. Chemical Safety Assessment

REACH Information:

A Chemical Safety Assessment has been carried out for one or more substances present in the material.

SECTION 16: Other information

Further information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Key literature references and sources for data

Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Regulation (EC) No. 1272/2008 (CLP, EU GHS)

List of relevant phrases (code and full text as stated in chapter 2 and 3)

[Acute Tox. 5 H303]: May be harmful if swallowed; Acute Tox Oral, Cat 5

Department issuing data sheet

SysKem Chemie GmbH

Dept. Product Safety

Telephone +49 (0) 202/30999510

Reasons for changes

Section 1



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Abbreviations and acronyms

Acronym Full text

N/A Not applicable

N/D Not determined

NE Not established

VOC Volatile Organic Compound

AICS Australian Inventory of Chemical Substances

AIHA WEEL American Industrial Hygiene Association Workplace Environmental Exposure Limits

ASTM ASTM International, originally known as the American Society for Testing and Materials (ASTM)

DSL Domestic Substance List (Canada)

EINECS European Inventory of Existing Commercial Substances

ELINCS European List of Notified Chemical Substances

ENCS Existing and new Chemical Substances (Japanese inventory)

IECSC Inventory of Existing Chemical Substances in China

KECI Korean Existing Chemicals Inventory

NDSL Non-Domestic Substances List (Canada)

NZIoC New Zealand Inventory of Chemicals

PICCS Philippine Inventory of Chemicals and Chemical Substances

TLV Threshold Limit Value (American Conference of Governmental Industrial Hygienists)

TSCA Toxic Substances Control Act (U.S. inventory)

UVCB Substances of Unknown or Variable composition, Complex reaction products or Biological materials

LC Lethal Concentration

LD Lethal Dose

LL Lethal Loading

EC Effective Concentration

EL Effective Loading

NOEC No Observable Effect Concentration

NOELR No Observable Effect Loading Rate