



RADCOLUBE® FR170

SAFETY DATA SHEET

MIL-PRF-46170E TYPE I HYDRAULIC FLUID, RUST INHIBITED, FIRE RESISTANT, SYNTHETIC HYDROCARBON BASE

Issue Date: 2 February 2010

Revision Date: 30 May 2018

Revision Number: 5.0

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name:
RADCOLUBE® FR170

Specifications:
MIL-PRF-46170E TYPE I

Qualification Numbers (Effective Date):
HF-71 (20 February 2015)

ISO 9001:2015 Certification Number:
C2018-00035

NATO Code:
H-544

National Stock Numbers (NSN):
9150-01-332-7819
9150-00-111-6256
9150-00-111-6254
9150-00-111-6255
9150-01-158-0462
Pint
Quart
Gallon
5 Gallon Pail
55 Gallon Drum

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

This product is a synthetic hydrocarbon base hydraulic fluid for use in the -40°C to 200°C (-40°F to 392°F) temperature range in recoil mechanisms and ground vehicle and equipment hydraulic systems. This hydraulic fluid will not be used for aircraft systems, aircraft ground support equipment, or the preservation of aircraft components.

1.3 Details of the supplier of the safety data sheet

Headquarters
Radco Industries, Inc.
700 Kingsland Drive
Batavia, IL 60510
CAGE Code 6ZS16



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Manufacturing Facility
Radco Industries, Inc.
39W930 Midan Drive
LaFox, IL 60147
CAGE Code 1RVC4

Customer information number: 1-630-232-7966

1.4 Emergency Telephone Number

Advisory Office in case of poisoning: Chemtrec
Chemtrec (North America): 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Aspiration hazard

Eye irritation

Skin irritation

Category 1

Category 2

Category 2

2.1 Label elements

Hazard pictograms:



Health Hazard

Signal word:

DANGER

Classification of mixture is in accordance with United Nations (UN) Globally Harmonized System of Classification and Labelling of Chemicals (GHS), sixth revised edition (2015), and United States Standard 29 CFR 1910 Occupational Safety and Health Standards.

Hazard statements

H304:	May be fatal if swallowed and enters airways.
H315:	Causes skin irritation.
H319:	Causes serious eye irritation.
H317:	May cause an allergic skin reaction.

Precaution statements

P101:	If medical advice is needed, have product container or label at hand.
P202:	Do not handle until all safety precautions have been read and understood.
P243:	Take precautionary measures against static discharge.
P270:	Do not eat, drink or smoke when using this product.
P273:	Avoid release to the environment.
P280:	Wear protective gloves/protective clothing/eye protection/face protection.



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P301 + P331 + P315:	IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Get immediate medical advice/attention.
P303 + P353:	IF ON SKIN (or hair): Rinse skin with water/shower.
P304 + P340 + P342 + P315:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, get immediate medical advice/attention.
P305 + P351 + P338 + P310:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
P306 + P363:	IF ON CLOTHING: Wash contaminated clothing before reuse.
P404:	Store in a closed container.
P501:	Dispose of contents/container in accordance with local/regional/national/international regulation.

2.2 Other hazards

PBT and vPvB

This product is not expected to be PBT and vPvB based on components.

NFPA Hazard ID

Health: 1
Flammability: 1
Reactivity: 0

HMIS Hazard ID

Health: 1
Flammability: 1
Reactivity: 0

SECTION 3. Composition/information on ingredients

3.1 Substances

1-Decene, homopolymer, hydrogenated

Index number:
CAS number:
EC number:
REACH number:
Synonyms:

Not available

68037-01-4

500-183-1

01-2119486452-34

1-Decene, dimer, hydrogenated; Polyalphaolefin; Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated

Barium bis(dinonylnaphthalenesulphonate)

Index number:
CAS number:
EC number:
REACH number:
Synonyms:

Not available



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25619-56-1

247-132-7

Not available

Barium sulfonate; barium bis(2,3-dinonylnaphthalene-1-sulfonate)

Non-hazardous components

Index number:

CAS number:

EC number:

REACH number:

Synonyms:

Not available

Trade Secret

Trade Secret

Not available

Trade Secret

3.2 Mixtures

Description of mixture:

Multicomponent mixture of synthetic base oils and additives.

Component	CAS Number	EC Number	%Content	Classification of Labeling	M-Factor
1-Decene, homopolymer, hydrogenated	68037-01-4	500-183-1	> 50%	Asp. Tox. 1 - H304	0
Barium bis(dinonylnaphthalenesulphonate)	25619-56-1	247-132-7	< 1.0%	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	-- --
Non-hazardous components	Trade secret	Trade secret	Trade secret	Not classified	0

M-Factor determinations are in accordance with UN GHS, sixth revised edition (2015).

See SECTION 16 for full text of the toxicity categories and H-statements listed in this section.

Indicative occupational exposure limit values

Component	Specific Concentration limits
1-Decene, homopolymer, hydrogenated	None established
Barium bis(dinonylnaphthalenesulphonate)	See SECTION 8 for exposure limits.
Non-hazardous components	None established

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact

Upon accidental eye exposure, wash the eyes promptly with water for at least 20 minutes. If wearing contact lenses, remove them if safe to do so, and continue washing. Get medical attention immediately.



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Ingestion

If swallowed, do not induce vomiting. Rinse mouth out with water. Get medical attention immediately.

Inhalation

If respiratory irritation, dizziness, or nausea occurs, move to fresh air and keep at rest in a comfortable position for breathing. If symptoms persist or unconsciousness occurs, seek immediate medical assistance.

Skin contact

Wash skin thoroughly with mild soap and plenty of water for at least 20 minutes. If irritation develops, seek medical advice.

Note to physicians

Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

Acute symptoms

Eye exposure symptoms

Direct eye exposure may lead to redness and lacrimation (crying tears).

Ingestion symptoms

Small amounts may cause nausea. Large amounts may lead to abdominal obstruction (cramps), constipation or diarrhea.

Inhalation symptoms

May cause irritation of the nose, throat, and lungs.

Skin exposure symptoms

Short-term exposure is not expected to cause irritation.

Delayed symptoms

Eye exposure symptoms

None expected, however seek medical attention if irritation persists.

Ingestion symptoms

None expected, however seek medical attention if abdominal obstruction, constipation or diarrhea persists.

Inhalation symptoms

None expected, however seek medical attention if respiratory irritation persists.

Skin exposure symptoms

Repeated exposure may lead to irritation. If rash develops, seek medical attention.

4.3 Indication of any immediate medical attention and special treatment needed

Suggestions for clinical testing and medical monitoring for delayed effects are not known. Use first aid when applicable, and seek guidance from a medical physician for specific treatment.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media includes alcohol-resistant foam, carbon dioxide, dry chemical or water fog.

5.2 Special hazards arising from the substance or mixture

No data is available.

5.3 Advice for firefighters



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Fire-Fighting Equipment

Firefighter should wear normal protective equipment (full bunker gear) and positive-pressure contained breathing apparatus. Water can be used to cool fire-exposed containers, to protect personnel and to disperse vapors and spills. Water runoff can cause environmental damage. Dike and collect water used to fight fires.

Special Fire-Fighting Procedures

Use water spray to cool fire-exposed containers and structures. If a rail or tank truck is involved in a fire, isolate for 800 meters (0.5 mile) in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from the area and let the fire burn out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear personal protective equipment (PPE). Eliminate sources of ignition, if safe to do so. Avoid breathing vapors or mist. Evacuate to designated safe areas.

For emergency responders

If possible, move individual to safe area, and treat symptomatically.

6.2 Environmental precautions

Contain spill, if safe to do so. Prevent from entering sewers or drains.

6.3 Methods and material for containment and cleaning up

Use oil absorbent material to soak up product on the ground. Should this product enter sewers or drains, it should be pumped out into an open vessel. The recovered material should be discarded as hazardous waste.

6.4 Reference to other sections

If appropriate, refer to SECTION 8 and SECTION 13 for additional information.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Use personal protective equipment (PPE) when handling this product. Smoking, eating and drinking should be prohibited in the application area.

7.2 Conditions for safe storage, including any incompatibilities

Do not store in open or unlabeled containers. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Designed for systems where MIL-PRF-46170E TYPE I fluid is required.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Component	Occupational exposure limits
1-Decene, homopolymer, hydrogenated	None established
Barium bis(dinonylnaphthalenesulphonate)	ACGIH TLV TWA (United States, 3/2012) = 0.5 mg/m ³ , 8 hours = 0.5 mg/m ³ , 8 hours



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	OSHA Z-1 PEL (United States, 6/2010)
Non-hazardous components	None established

Biological exposure limits

None established.

8.2 Exposure controls

Appropriate engineering controls

Practice general industrial hygiene. Do not eat, drink or smoke near product. Wash hands after handling. Remove clothing and wash separate from other laundry.

Personal protective equipment (PPE)

Eye/face protection

Safety glasses, chemical safety goggles and/or face shields are recommended when handling this product.

Skin protection

For extended handling, wear oil resistant gloves such as neoprene. Nitrile gloves may be appropriate for short handling periods use. Contact a government approved or accredited manufacturer for specific recommendations.

Other protections

Wear protective clothing ensuring minimal skin exposure. Protective clothing should be chemically impervious to oils and other solvents.

Respiratory protection

Use with adequate ventilation. Avoid breathing vapor. If heated and ventilation is inadequate, use NIOSH certified respirator, which will protect against organic vapor.

Environmental exposure controls

Do not allow product to reach ground water, water course, or sewage systems. Stop leaks, if safe to do so. Contain spills with absorbent or adsorbent materials.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Transparent, straw-yellow liquid
Odor:	Faint oily
Odor threshold:	Not determined
Auto-ignition temperature:	378°C (712.4°F)
Decomposition temperature:	Not determined
Evaporation Rate (ASTM D972):	1.70% at 149°C (300°F) after 22 hours
Explosive properties:	Not determined
Flammability (solid, gas):	Non-flammable
Lower flammability limit:	Not available
Upper flammability limit:	Not available
Flash point Cleveland Open Cup (ASTM D92):	222°C (431.6°F)
Flash point Pensky-Martens Closed Cup (ASTM D93):	Not determined
Initial boiling point and boiling range:	Not determined
Melting point/freezing point:	< -72°C (-97.6°F)



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Oxidizing properties:	Not determined
Partition coefficient (n-octanol/water), Log P _{ow} :	Not determined
pH:	Not applicable
Relative density (ASTM D1298) 15.6°C/15.6°C (60°F/60°F):	0.85
Solubility in water:	< 0.1%
Vapor density:	Not determined
Vapor pressure:	< 0.1 mmHg at 25°C (77°F)
Viscosity (ASTM D445):	4.2 mm ² /s (cSt) at -40°C (-40°F) 15 mm ² /s (cSt) at 40°C (104°F) 2,400 mm ² /s (cSt) at 100°C (212°F)

9.2 Other information

No further information is available.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Non-reactive in its original state.

10.2 Chemical stability

Stable in its original state.

10.3 Possibility of hazardous reactions

Does not occur.

10.4 Conditions to avoid

Oxidizing materials

10.5 Incompatible materials

Keep away from strong oxidizing or reducing agents, including acids, caustics, chlorites (bleach), halogens and peroxides.

10.6 Hazardous decomposition products

Decomposition of this product under fire conditions may produce carbon oxides, phenols, aminic constituents, and other decomposition products.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Method	Species	Result
1-Decene, homopolymer, hydrogenated	Dermal	Rat	LD ₅₀ > 2000 mg/kg LC ₅₀ = 5.0 mg/L after 1 hour LD ₅₀ > 2000 mg/kg
	Inhalation	Rat	
	Oral	Rat	
Barium bis(dinonylnaphthalenesulphonate)	Dermal	Rabbit	LD ₅₀ = 10,000 mg/kg NOEC = 21 mg/L after 1 hour LD ₅₀ = 1750 mg/kg
	Inhalation	Rat	
	Oral	Rat	
Non-hazardous components	--	--	Not expected to be hazardous.
1-Decene, homopolymer, hydrogenated	Not classified as carcinogen by IARC, NTP and OSHA.		
Barium bis(dinonylnaphthalenesulphonate)	Not classified as carcinogen by IARC, NTP and OSHA.		
Non-hazardous components	Not classified as carcinogens by IARC, NTP and OSHA.		



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Eye damage / irritation	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 405	Rabbit	Not irritating
Barium bis(dinonylnaphthalenesulphonate)	--	--	Irritating
Non-hazardous components	--	--	Not expected to be hazardous.

Germ cell mutagenicity	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 471	<i>S. typhimurium</i>	Not mutagenic
Barium bis(dinonylnaphthalenesulphonate)	--	--	No data available
Non-hazardous components	--	--	Not expected to be mutagenic.

Reproductive toxicity	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 415	Rat	No reproductive harm
Barium bis(dinonylnaphthalenesulphonate)	--	--	No data available
Non-hazardous components	--	--	Not expected to be hazardous.

Respiratory sensitization

None established

Skin sensitization	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 406	Guinea pig	Not sensitizing
Barium bis(dinonylnaphthalenesulphonate)	--	--	Not sensitizing
Non-hazardous components	--	--	Not expected to be sensitizing.

Skin corrosion/irritation	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 404	Rabbit	Not irritating
Barium bis(dinonylnaphthalenesulphonate)	--	--	Irritant
Non-hazardous components	--	--	Not expected to be irritant.

Specific target organ toxicity (STOT)-repeated exposure	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	--	--	No data available
Barium bis(dinonylnaphthalenesulphonate)	--	--	No data available
Non-hazardous components	--	--	Not expected to be hazardous.

Specific target organ toxicity (STOT)-single exposure

None established

11.2 Other information

See SECTION 16 for toxicity references.

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SECTION 12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Aquatic Toxicity	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 203 OECD 211 DIN 38412-8	<i>D. magna</i> <i>O. mykiss</i> <i>P. putida</i>	NOEL = 125 mg/L after 21 days LL ₅₀ > 1000g/L after 96 hours EC ₅₀ > 10g/L after 16 hours
Barium bis(dinonylnaphthalenesulphonate)	OECD 201 OECD 202 Not reported	Algae <i>Daphnia</i> <i>sp.</i> Fish	EC ₁₀ = 0.16 mg/L after 72 hours NOEC = 0.27 mg/L after 48 hours LC ₅₀ > 0.28 mg/L after 96 hours
Non-hazardous components	--	--	Not expected to be hazardous.

Terrestrial Toxicity	Test Method	Species	Results
1-Decene, homopolymer, hydrogenated	OECD 222	<i>Earthworm</i>	LC ₅₀ > 1000 mg/kg after 56 days
Barium bis(dinonylnaphthalenesulphonate)	--	--	No data available
Non-hazardous components	--	--	No data available

12.2 Persistence and degradability

Biodegradation	Test Method	Results
1-Decene, homopolymer, hydrogenated	OECD 301B	Not readily biodegradable
Barium bis(dinonylnaphthalenesulphonate)	OECD 301B	Not readily biodegradable
Non-hazardous components	--	No data available

**12.3
Bioaccumulative potential****12.3 Bioaccumulative potential****Bioconcentration Factor (BCF)**

No data available

Partition Coefficient n-octanol / water (Log K _{ow})	Results
1-Decene, homopolymer, hydrogenated	Log K _{ow} = 10.09
Barium bis(dinonylnaphthalenesulphonate)	Log K _{ow} = 6.7
Non-hazardous components	No data available

**12.4
Mobility****12.4 Mobility in soil****Soil Mobility**

No data available

12.5 Results of PBT and vPvB assessment

Chemical	Results
1-Decene, homopolymer, hydrogenated	The substance is not PBT / vPvB.
Barium bis(dinonylnaphthalenesulphonate)	The substance is not PBT / vPvB
Non-hazardous components	These substances are not PBT / vPvB.

**12.6
Other adverse effects****12.6 Other adverse effects**

No data available



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SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

This unused material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets U.S. EPA (40 CFR Subpart C) criteria for being toxic, corrosive, ignitable, or reactive. This material could also become hazardous waste if it is mixed with or meets a listed hazardous waste. If it is a hazardous waste, regulations in 40 CFR 262-266, 268, 270, and 279 may apply.

SECTION 14. TRANSPORTATION INFORMATION

United States Department of Transportation (DOT)

Not regulated

Canada Transport - Transportation of Dangerous Goods (TDG)

Not regulated

International Air Transport Association (IATA)

Not regulated

International Carriage of Dangerous Goods by Inland Waterways (AND)

Not regulated

International Carriage of Dangerous Goods by Rail (RID)

Not regulated

International Carriage of Dangerous Goods by Road (ADR)

Not regulated

International Civil Aviation Organization (ICAO)

Not regulated

International Maritime Dangerous Goods Code (IMDG Code)

Not regulated

SECTION 15. REGULATORY INFORMATION

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

Australia Inventory (AICS)

All the ingredients are listed.

California Proposition 65

This product does not contain any chemicals known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Canadian Domestic Substances List/Non-Domestic Substances List (DSL/NDSL)

All the ingredients are listed.

China Inventory of Existing Chemical Substances (IECSC)

All the ingredients are listed.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Reportable Quantity



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This product is not reportable under 40 CFR Part 302.4.

International Agency for Research on Cancer (IARC)

None of the ingredients are listed.

Japan Existing and New Chemical Substances (ENCS)

All the ingredients are listed.

Korean Existing and Evaluated Chemical Substances (KECL)

All the ingredients are listed.

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

All the ingredients are listed.

SARA Title III Section 302 Extremely Hazardous Substances (40 CFR Part 355)

This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

SARA Title III Section 313 (40 CFR Part 372)

This product is not regulated under Section 313 of SARA and 40 CFR Part 372.

SARA Title III Sections 311/312 Hazardous Categorization (40 CFR Part 370)

Hazardous categories for this product are:

Acute =	Chronic =	Fire =	Pressure =	Reactive =
No	No	No	No	No

United States Toxic Substances Control Act (TSCA)

All the ingredients are listed.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been conducted.

SECTION 16. OTHER INFORMATION

Safety Data Sheet Creation Date:

2 February 2010

Safety Data Sheet Revision Date:

30 May 2018

Revision Number:

5.0

THIS INFORMATION RELATES TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION STATED IS TO THE BEST OF RADCO'S KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE COMPILED. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE TO ITS ACCURACY, RELIABILITY, OR COMPLETENESS, AND RADCO DOES NOT ACCEPT LIABILITY FOR ANY LOSS OR DAMAGE THAT MAY OCCUR FROM THE USE OF THIS INFORMATION. FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIAL SHOULD BE USED WITH CAUTION TO GUARD AGAINST UNKNOWN HAZARDS. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, RADCO DOES NOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

RADCOLUBE® is a registered trademark of Radco Industries, Inc.

Toxicological References

"Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated." *Registration Dossier - ECHA*. European Chemicals Agency, [no date]. Web. 11 Apr. 2017.



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"Barium bis(di C8-C10, branched, C9 rich, alkyl naphthalenesulphonate)." Registration Dossier - ECHA. European Chemicals Agency, [no date]. Web. 17 Jan. 2018.

Globally Harmonized System of Classification and Labelling of Chemicals: (GHS). 6th ed. New York: United Nations, 2015. Print.

Definitions

Asp. Tox. 1

See *Aspiration hazard, category 1 definition*.

Aspiration hazard, category 1

Hydrocarbons with kinematic viscosity ≤ 20.5 mm²/s.

DIN 38412-8

German Standards for the Examination of Water, Waste Water and Sludge ...

EC number

European Community number

EC₅₀

Concentration that effects 50% of the test population.

EU

European Union

H304

May be fatal if swallowed and enters airways.

HMIS

Hazardous Materials Identification System

IARC

International Agency for Research on Cancer

LC₅₀

Lethal concentration that causes 50% death in test population.

LD₅₀

Lethal dose that causes 50% death in test population.

NOEL

No observable effect level

M-Factor

Multiplying factor for substances that are toxic to aquatic environment.

NFPA

National Fire Protection Association

NTP

National Toxicology Program, United States Department of Health and Human Services

OECD

Organisation for Economic Co-operation and Development

OECD 203

OECD Guideline 203: Fish, Acute Toxicity Test

OECD 211

OECD Guideline 211: Daphnia magna Reproduction Test

OECD 301B

OECD Guideline 301 B: (Ready Biodegradability: CO₂ Evolution Test)

OECD 403

OECD Guideline 403: Acute Inhalation Toxicity

OECD 404

OECD Guideline 404: Acute Dermal Irritation/Corrosion Test

OECD 405

OECD Guideline 405: Acute Eye Irritation/Corrosion Test

OECD 406

OECD Guideline 406: Skin Sensitization Test

OECD 415

OECD Guideline 415: One-Generation Reproduction Toxicity Study

OECD 471

OECD Guideline 471: Bacterial Reverse Mutation Test

OSHA

United States Department of Labor Occupational Safety and Health Administration

PBT

Persistence Bioaccumulation and Toxicity

vPvB

Very persistent and very bioaccumulative