hydraulic fluid Article number 24704



Ferdinand Bilstein GmbH + Co. KG

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

1.1 Product identifier

hydraulic fluid

Article number: 24704

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

1.2.1 Relevant uses

Hydraulics oil

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Ferdinand Bilstein GmbH + Co. KG

Wilhelmstr. 47

58256 Ennepetal / GERMANY Phone +49 2333 911-0 Fax +49 2333 911-444 Homepage www.febi.com E-mail info@febi.com

Address enquiries to

Technical information info@febi.com
Safety Data Sheet info@febi.com

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200

(HCS 2024)

Hazard pictograms

Signal word DANGER

Contains: Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-

extract), CAS: 72623-86-0

Hazard statements H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents / container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of

disposal.

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2.3 Other hazards

Physico-chemical hazards No particular hazards known.

Human health dangers Frequent persistent contact with the skin can cause skin irritation.

If swallowed or in the event of vomiting, risk of product entering the lungs.

Environmental hazards Does not contain any PBT or vPvB substances.

Contains no ingredients with endocrine-disrupting properties.

Other hazards No particular hazards known.

This product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200.

SECTION 3: Composition / Information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
50 - <100	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract)
	CAS: 72623-86-0
0,1 - <1	Reaktionsmasse von 3-Methylphenyldiphenylphosphat, 4-Methylphenyldiphenylphosphat, Bis(3-methylphenyl)phenylphosphat, 3-Methylphenyl-4-methylphenylphosphat und Triphenylphosphat
0,1 - <1	2,6-di-tert-butyl-p-cresol
	CAS: 128-37-0

Comment on component parts For full text of H-statements: see SECTION 16.

Contains less than 3% w/w DMSO-extract (only for mineral oils)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Change soaked clothing.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed or in the event of vomiting, risk of product entering the lungs.

Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam, dry powder, water spray jet, carbon dioxide.

Extinguishing media that must not

be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

Not combusted hydrocarbons.

Risk of formation of toxic pyrolysis products.

Carbon monoxide (CO)

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5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

Forms slippery surfaces with water.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

In case the product spills into drains/surface waters/groundwater, immediately inform the

authorities.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid formation of aerosols.

The product is combustible.

Do not eat, drink or smoke when using this product.

Use barrier skin cream.

Wash hands before breaks and after work.

Cloths contaminated with product should not be kept in trouser pockets. Contaminated work clothing should not be allowed out of the workplace.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Keep container in a well-ventilated place.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

Substance

2,6-di-tert-butyl-p-cresol

CAS: 128-37-0

Long-term exposure: 2 mg/m³, ACGIH, A4 (i, h)

DNEL

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2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

Industrial, inhalative, Long-term - systemic effects, 1.76 mg/m³

Industrial, dermal, Long-term - systemic effects, 500 µg/kg bw/day

general population, inhalative, Long-term - systemic effects, 435 μg/m³

general population, dermal, Long-term - systemic effects, 250 µg/kg bw/day

general population, oral, Long-term - systemic effects, 250 µg/kg bw/day

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-86-0

Industrial, inhalative, Long-term - systemic effects, 2.73 mg/m³

Industrial, inhalative, Long-term - local effects, 5.58 mg/m³

Industrial, dermal, Long-term - systemic effects, 970 µg/kg bw/day

general population, inhalative, Long-term - local effects, 1.19 mg/m³

general population, oral, Long-term - systemic effects, 740 µg/kg bw/day

Reaktionsmasse von 3-Methylphenyldiphenylphosphat, 4-Methylphenyldiphenylphosphat, Bis(3-methylphenyl)phenylphosphat, 3-Methylphenyl-4-methylphenylphosphat und Triphenylphosphat

Industrial, inhalative, Long-term - systemic effects, 3,5 mg/m³

Industrial, dermal, Long-term - systemic effects, 0,5 mg/kg bw/day

general population, dermal, Long-term - systemic effects, 0,25 mg/kg bw/day

general population, oral, Long-term - systemic effects, 0,25 mg/kg bw/day

general population, inhalative, Long-term - systemic effects, 0,875 mg/m³

PNEC

Substance

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

freshwater, 199 ng/L

sediment (seawater), 19.9 ng/L

sewage treatment plants (STP), 17 µg/L

sediment (freshwater), 458.19 µg/kg sediment dw

sediment (seawater), 45.82 µg/kg sediment dw

oral (food), 16.67 mg/kg food

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-86-0

oral (food), 9.33 mg/kg food

Reaktionsmasse von 3-Methylphenyldiphenylphosphat, 4-Methylphenyldiphenylphosphat, Bis(3-methylphenyl)phenylphosphat, 3-Methylphenyl-4-methylphenylphosphat und Triphenylphosphat

freshwater, 0,002 mg/L

seawater, 0 mg/L

sediment (freshwater), 3,43 mg/kg sediment dw

sediment (seawater), 0,343 mg/kg sediment dw

soil, 0,68 mg/kg soil dw

oral (food), 267 mg/kg food

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8.2 Exposure controls

General limit for oil mist should be noted.

Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of

hazardous substances.

Eye protection If there is a risk of splashing:

Safety glasses. (EN 166:2001)

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information.

> 0,4 mm: Neoprene, >480 min (EN 374-1/-2/-3).> 0,4 mm: Nitrile rubber, >480 min (EN 374-1/-2/-3).

Skin protection Light protective clothing.

Other Personal protective equipment should be selected specifically for the working place,

depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Avoid contact with eyes and skin.

Respiratory protection Breathing apparatus in the event of aerosol or mist formation.

Short term: filter apparatus, combination filter A-P1. (DIN EN 14387)

Thermal hazards None

Delimitation and monitoring of the

environmental exposition

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical stateLiquidFormLiquidColorgreenOdorcharacteristic

Odor threshold No information available.

pH-valuepH-value [1%]Not applicable

Boiling point or initial boiling point

and boiling range [°C]

No information available.

Flash point [°C] 125

Flammability No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Oxidizing properties No

Vapor pressure/gas pressure [kPa]No information available.Density [g/cm³]0,84 (15 °C / 59,0 °F)Relative densityNot determinedBulk density [kg/m³]Not applicableSolubility in waterimmiscible

Solubility other solvents No information available.

Partition coefficient n-octanol/water No information available.

(log value)

Kinematic viscosity

Relative vapour density

Melting point [°C]

Auto-ignition temperature [°C]

No information available.

No information available.

No information available.

No information available.

Particle characteristics Not applicable

9.2 Other information

None

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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Strong oxidizing agent. Acids Strong basic compounds

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product

oral, Based on the information available, the classification criteria have not been fulfilled.

Substance

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

LD50, oral, Rat, 2930 - 6000 mg/kg bw

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-86-0

LD50, oral, Rat, 5000 mg/kg bw

Reaktionsmasse von 3-Methylphenyldiphenylphosphat, 4-Methylphenyldiphenylphosphat, Bis(3-methylphenyl)phenylphosphat, 3-Methylphenyl-4-methylphenylphosphat und Triphenylphosphat

LD50, oral, Rat, > 5000 mg/kg

Acute dermal toxicity

Product

dermal, Based on the information available, the classification criteria have not been fulfilled.

Substance

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

LD50, dermal, Rat, > 2000 mg/kg bw

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-86-0

LD50, dermal, Rabbit, 2000 - 5000 mg/kg bw

Reaktionsmasse von 3-Methylphenyldiphenylphosphat, 4-Methylphenyldiphenylphosphat, Bis(3-methylphenyl)phenylphosphat, 3-Methylphenyl-4-methylphenylphosphat und Triphenylphosphat

LD50, dermal, Rat, > 2000 mg/kg

Acute inhalational toxicity

Product

inhalative, Based on the information available, the classification criteria have not been fulfilled.

Substance

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-86-0

LC50, inhalative, Rat, 2.18 - 5.53 mg/L air, 4h

Serious eye damage/irritation B

Based on the information available, the classification criteria have not been fulfilled.

Substance

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

Eye, non-irritating

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-86-0

Eye, non-irritating

Reaktionsmasse von 3-Methylphenyldiphenylphosphat, 4-Methylphenylphosphat, Bis(3-methylphenyl)phenylphosphat, 3-Methylphenyl-4-methylphenylphosphat und Triphenylphosphat

Rabbit, OECD 405, non-irritating

Skin corrosion/irritation

Based on the information available, the classification criteria have not been fulfilled.

Substance

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

dermal, non-irritating

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-

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86-0

dermal, non-irritating

Reaktionsmasse von 3-Methylphenyldiphenylphosphat, 4-Methylphenylphosphat, Bis(3-methylphenyl)phenylphosphat, 3-Methylphenyl-4-methylphenylphosphat und Triphenylphosphat

Rabbit, OECD 404, non-irritating

Respiratory or skin sensitisation Based on the information available, the classification criteria have not been fulfilled.

Substance

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

dermal, non-sensitizing

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-86-0

dermal, non-sensitizing

Reaktionsmasse von 3-Methylphenyldiphenylphosphat, 4-Methylphenyldiphenylphosphat, Bis(3-methylphenyl)phenylphosphat, 3-Methylphenyl-4-methylphenylphosphat und Triphenylphosphat

non-sensitizing

Specific target organ toxicity — single exposure

Based on the information available, the classification criteria have not been fulfilled.

Specific target organ toxicity — repeated exposure

Based on the information available, the classification criteria have not been fulfilled.

Substance

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

NOAEL, oral, Rat, 25 - 70 mg/kg bw/day

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-86-0

NOAEL, dermal, Rat, 30 - 2000 mg/kg bw/day

NOAEC, inhalative, Rat, 980 mg/m³ air

LOAEL, oral, Rat, 125 mg/kg bw/day

Mutagenicity

Based on the information available, the classification criteria have not been fulfilled.

Substance

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

in vitro, negativ

in vivo, negativ

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-86-0

in vitro, negativ

Reaktionsmasse von 3-Methylphenyldiphenylphosphat, 4-Methylphenyldiphenylphosphat, Bis(3-methylphenyl)phenylphosphat, 3-Methylphenyl-4-methylphenylphosphat und Triphenylphosphat

Salmonella typhimurium, OECD 471, negativ

Reproduction toxicity

Based on the information available, the classification criteria have not been fulfilled.

- Fertility

Substance

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-86-0

NOAEL, oral, Rat, 1000 mg/kg bw/day

Reaktionsmasse von 3-Methylphenyldiphenylphosphat, 4-Methylphenyldiphenylphosphat, Bis(3-methylphenyl)phenylphosphat, 3-Methylphenyl-4-methylphenylphosphat und Triphenylphosphat

NOAEL, oral, Rat, 60 mg/kg bw/d (Effect on fertility), adverse effect observed

NOAEL, oral, Rat, 900 mg/kg bw/d (Effect on developmental toxicity), no adverse effect observed

- Development

Substance

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

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NOAEL, oral, Rat, 25 mg/kg bw/day

Reaktionsmasse von 3-Methylphenyldiphenylphosphat, 4-Methylphenyldiphenylphosphat, Bis(3-methylphenyl)phenylphosphat, 3-Methylphenyl-4-methylphenylphosphat und Triphenylphosphat

NOAEL, oral, Rat, 60 mg/kg bw/d (Effect on fertility), adverse effect observed

NOAEL, oral, Rat, 900 mg/kg bw/d (Effect on developmental toxicity), no adverse effect observed

Carcinogenicity Based on the information available, the classification criteria have not been fulfilled.

Aspiration hazard Based on the information available, the classification criteria have been fulfilled.

May be fatal if swallowed and enters airways.

On basis of test data

General remarks

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Substance

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

LC50, (96h), Fish, 199 - 570 µg/L

EC50, (96h), Algae, 758 µg/L

EC50, (48h), Invertebrates, 480 - 610 µg/L

NOEC, (21d), Invertebrates, 23 - 316 µg/L

NOEC, (33d), Fish, 53 μg/L

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (containing < 3% DMSO-extract), CAS: 72623-86-0

NOELR, (14d), Fish, 1 g/L

LL50, (96h), Invertebrates, 10 g/L

LL50, (96h), Fish, 100 mg/L

Reaktionsmasse von 3-Methylphenyldiphenylphosphat, 4-Methylphenyldiphenylphosphat, Bis(3-methylphenyl)phenylphosphat, 3-Methylphenyl-4-methylphenylphosphat und Triphenylphosphat

LC50, (96h), Oryzias latipes, 1,3 mg/L

EC50, (72h), Desmodesmus subspicatus, 0,55 mg/L

NOEC, (21d), Daphnia magna, 0,12 mg/L

12.2 Persistence and degradability

Behaviour in environment

compartments

Behaviour in sewage plant

Biological degradability

The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

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12.7 Other adverse effects

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Dispose of as hazardous waste.

Coordinate disposal with the authorities if necessary.

In according to RoHS!

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

RCRA Hazard Class (40CFR 261)

Waste must be disposed of in accordance with federal, state and local environmental control

regulations. Consult your local or regional authorities.

SECTION 14: Transport

14.1 UN number

Transport by land according to

ADR/RID

Not applicable

Inland navigation (ADN) Not applicable

Marine transport in accordance with

IMDG

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable

CFR)

14.2 UN proper shipping name

Transport by land according to

ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

IMDG

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

DOT Road Shipment Information (49 NOT CLASSIFIED AS "DANGEROUS GOODS"

CFR)

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14.3 Transport hazard class(es)

Transport by land according to

Not applicable

ADR/RID

Inland navigation (ADN) Not applicable

Marine transport in accordance with

Not applicable

IMDG

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable

CFR)

14.4 Packing group

Transport by land according to ADR/RID

Not applicable

Inland navigation (ADN)

Not applicable

Marine transport in accordance with Not applicable

IMDG

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable

CFR)

14.5 Environmental hazards

Transport by land according to ADR/RID

No

Inland navigation (ADN)

No

Marine transport in accordance with No

Air transport in accordance with IATA No

DOT Road Shipment Information (49 No

IMDG

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

Not applicable

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SECTION 15: Regulatory information

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

US Regulations

National regulations 29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA,

TSCA, California - Prop. 65

- SARA, 302 No information available. - SARA, 311 No information available. - SARA, 313 No information available.

- TSCA All chemical substances in this material are included on or exempted from listing on the TSCA

Inventory.

- FDA No information available.

American Conference of Ingredients not listed as carcinogens.

Governmental Industrial Hygienists -

ACGIH

Cancer IARC

International Agency for Research on Ingredients not listed as carcinogens.

National Toxicology Program - NTP No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

HAP-VOC No information available.

Transport-regulations DOT-Classification, ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

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SECTION 16: Other information

16.1 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route:

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses:

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure;

CAS = Chemical Abstracts Service;

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;

CFR = Code of Federal Regulations;

CPR = Controlled Products Regulations;

DMEL = Derived Minimum Effect Level;

DNEL = Derived No Effect Level;

DOT = Department of Transportation;

EC50 = Median effective concentration;

EPA = Environmental Protection Agency;

GHS = Globally Harmonized System of Classification and Labelling of Chemicals;

IATA = International Air Transport Association;

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk;

IC50 = Inhibition concentration, 50%;

IMDG = International Maritime Code for Dangerous Goods;

IARC = International Agency of Research on Cancer;

IATA = International Air Transport Association;

TSCA = Toxic Substance Control Act;

HMIS = Hazardous Materials Identification System;

NFPA = National Fire Protection Association;

NIOSH = National Institute for Occupational Safety and Health;

OSHA = Occupational Safety and Health Administration;

LC50 = Lethal concentration, 50%;

LD50 = Median lethal dose, 50%;

MARPOL = International Convention for the Prevention of Marine Pollution from Ships;

PBT = Persistent, Bioaccumulative and Toxic substance;

PNEC = Predicted No-Effect Concentration;

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;

SARA = Superfund Amendments and Reauthorization Act;

TLV®/TWA = Threshold limit value – time-weighted average;

TLV®STEL = Threshold limit value - short-time exposure limit;

VOC = Volatile Organic Compounds;

vPvB = very Persistent and very Bioaccumulative;

16.2 Ratings

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NFPA Ratings



TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 2 - Moderate Hazard RIGHT, REACTIVITY: 1 - Slight Hazard BOTTOM, SPECIAL NOTICE:

HMIS Ratings



- 2 Moderate Hazard
- 1 Slight Hazard
- 1 Slight Hazard
- X Personal protection rating to be supplied by user depending on use conditions

PERSONAL PROTECTION:

- A Safety Glasses
- B Safety Glasses and Gloves
- C Safety Glasses, Gloves and Protection Apron
- D Face Shield, Gloves and Protection Apron
- E Safety Glasses, Gloves and Dust Respirator
- F Safety Glasses, Gloves, Protection Apron and Dust Respirator
- G Safety Glasses, Gloves and Vapor Respirator.
- H Splash Goggles, Gloves, Protection Apron and Vapor Respirator.
- I Safety Glasses, Gloves, Dust Respirator and Vapor Respirator.
- J Splash Goggles, Gloves, Protection Apron, Dust Respirator and Vapor Respirator.
- K Airline Mask or Hood, Gloves, Full Suit and Boots.
- X Personal protection rating to be supplied by user depending on use conditions

Modified position

1.1, 2.1, 2.2, 2.3, 3.2, 4.1, 4.2, 4.3, 5.1, 5.2, 5.3, 6.1, 6.2, 7.1, 7.2, 8.1, 8.2, 9.1, 9.2, 10.2, 10.3, 10.4, 10.5, 11.1, 12.1, 12.2, 12.7, 13.1, 15.1, 15.2, 16.1, 16.3