

UNICO TEC (PTY) LTD

DOT 4 BRAKE FLUID	SAFETY DATA SHEET	Date of issue	03/02/2022
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IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Trade name	: Brake and Clutch Fluid DOT 4
Product name	: Brake Fluid DOT 4
Product type	: Hydraulic Brake Fluid
Supplier	: Unico Manufacturing Co. (PE) (Pty) Ltd.
Address	: 6 Celebes Road, Island View, Durban, South Africa
Contact number	: +27 (31) 466 1541/2
Emergency contacts	: Vishen Kanhai +27(64) 752 2197

Relevant identified uses of the substance or mixture

Industry sector : Automobile industry

Type of use : Brake fluid.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling

EUH210 Safety data sheet available on request.

2.3 Other hazards

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

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Diethylene glycol	111-46-6 203-872-2 603-140-00-6 01-2119457857-21 01-2119457857-21- 0002 01-2119457857-21- 0021 01-2119457857-21- XXXX	Acute Tox. 4; H302	>=1-<10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Remove/ Take off immediately all contaminated clothing.
Get medical advice/ attention if you feel unwell.
- If inhaled : If inhaled, remove to fresh air.
Get medical advice/ attention.
- In case of skin contact : In case of contact, immediately flush skin with soap and plenty
of water.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty
of water and seek medical advice.
- If swallowed : If swallowed do not induce vomiting, seek medical advice and
show safety datasheet or label

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No symptoms known currently.
- Risks : No hazards known at this time.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray jet
Alcohol-resistant foam
Dry powder
Carbon dioxide (CO₂)

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Special protective equipment for firefighters : Self-contained breathing apparatus

Further information : Wear suitable protective equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective equipment.
Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Treat recovered material as described in the section "Disposal considerations".

6.4 Reference to other sections

Information regarding Safe handling, see chapter 7., For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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- Advice on safe handling : When used and handled appropriately no special measures are needed
- Advice on protection against fire and explosion : Observe the general rules of industrial fire protection
- Hygiene measures : Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off immediately all contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

- Further information on storage conditions : Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care.

7.3 Specific end use(s)

- Specific use(s) : No further recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Diethylene glycol CAS-No.: 111-46-6	Workers	Dermal	Long-term systemic effects	43 mg/kg bw/day
Remarks:	DNEL			
	Workers	Inhalation	Long-term local effects	60 mg/m3
Remarks:	DNEL			
	General population	Dermal	Long-term systemic effects	21 mg/kg bw/day
Remarks:	DNEL			
	General population	Inhalation	Long-term local effects	12 mg/m3
Remarks:	DNEL			
	Workers	Inhalation	Long-term systemic effects	44 mg/m3
Remarks:	DNEL			
	General population	Inhalation	Long-term systemic effects	12 mg/m3
Remarks:	DNEL			
Triethylene glycol CAS-No.: 112-27-6	Workers	Dermal	Long-term systemic effects	40 mg/kg bw/day
Remarks:	DNEL			
	Workers	Inhalation	Acute local effects	50 mg/m3
Remarks:	DNEL			

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	General population	Dermal	Long-term systemic effects	20 mg/kg bw/day
Remarks:	DNEL			
	General population	Inhalation	Acute local effects	25 mg/m3
Remarks:	DNEL			
Triethylene glycol methyl ether CAS-No.: 112-35-6	Workers	Dermal	Long-term systemic effects	167 mg/kg bw/day
Remarks:	DNEL			
	General population	Dermal	Long-term systemic effects	100 mg/kg bw/day
Remarks:	DNEL			
	General population	Ingestion	Long-term systemic effects	10 mg/kg bw/day
Remarks:	DNEL			
Reaction mass of 3,6,9,12-tetraoxotridecan-1-ol and 3,6,9,12,15-pentaoxahexadecan-1-ol	Workers	Dermal	Long-term systemic effects	167 mg/kg bw/day
Remarks:	DNEL			
	Workers	Inhalation	Long-term systemic effects	156 mg/m3
Remarks:	DNEL			
	General population	Dermal	Long-term systemic effects	100 mg/kg bw/day
Remarks:	DNEL			
	General population	Inhalation	Long-term systemic effects	104 mg/m3
Remarks:	DNEL			
	General population	Oral	Long-term systemic effects	10 mg/kg bw/day
Remarks:	DNEL			

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Diethylene glycol CAS-No.: 111-46-6	Fresh water sediment	20,9 mg/kg dry weight (d.w.)
	Soil	1,53 mg/kg dry weight (d.w.)
	Sewage treatment plant	199,5 mg/l
	Fresh water	10 mg/l
	Marine water	1 mg/l
Triethylene glycol CAS-No.: 112-27-6	Marine sediment	2,09 mg/kg dry weight (d.w.)
	Fresh water	10 mg/l
	Marine water	1 mg/l
	Fresh water sediment	46 mg/kg dry weight (d.w.)

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	Marine sediment	4,6 mg/kg dry weight (d.w.)
	Soil	3,32 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
Triethylene glycol methyl ether CAS-No.: 112-35-6	Fresh water	10 mg/l
	salt water	1 mg/l
	Water (intermittent release)	50 mg/l
	Fresh water sediment	36,6 mg/kg dry weight (d.w.)
	Marine sediment	3,66 mg/kg dry weight (d.w.)
	Soil	1,56 mg/kg dry weight (d.w.)
	Sewage treatment plant	200 mg/l
	Oral	89 mg/kg food
Reaction mass of 3,6,9,12-tetraoxotridecan-1-ol and 3,6,9,12,15-pentaoxahexadecan-1-ol	Fresh water	10 mg/l
	salt water	1 mg/l
	Water (intermittent release)	100 mg/l
	Fresh water sediment	36,5 mg/kg dry weight (d.w.)
	Marine sediment	3,65 mg/kg dry weight (d.w.)
	Soil	1,53 mg/kg dry weight (d.w.)
	Sewage treatment plant	200 mg/l
	Oral	90 mg/kg food

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Break through time : 480 min

Glove thickness : 0,7 mm

Remarks : Long-term exposure Impervious butyl rubber gloves

Break through time : 30 min

Glove thickness : 0,4 mm

Remarks : For short-term exposure (splash protection): Nitrile rubber gloves.

Remarks : These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

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- Skin and body protection : Wear suitable protective equipment.
- Respiratory protection : Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure
- Protective measures : Observe the usual precautions for handling chemicals.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : yellow
- Odour : characteristic
- Odour Threshold : not tested.
- pH : 9 - 10 (25 °C)
Concentration: 50 %
- Solidification point : ca. -65 °C
- Boiling point : > 250 °C
- Flash point : ca. 136 °C
- Evaporation rate : not tested.
- Flammability (solid, gas) : Not applicable
- Burning number : Not applicable
- Upper explosion limit / upper flammability limit : Not relevant
- Lower explosion limit / Lower flammability limit : Not relevant
- Vapour pressure : < 1 hPa
- Relative vapour density : not tested.
- Density : ca. 1,0672 g/cm³ (20 °C)
- Bulk density : Not applicable
- Solubility(ies)
Water solubility : completely miscible
- Solubility in other solvents : not tested.
Solvent: fat

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Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature : not tested.

Decomposition temperature : not tested.

Viscosity
Viscosity, kinematic : ca. 757 mm²/s (-40 °C)
ca. 1,81 mm²/s (100 °C)

Explosive properties : no data available

Oxidizing properties : Not applicable

9.2 Other information

Metal corrosion rate : Not corrosive to metals

Minimum ignition energy : not tested.

Particle size : Not applicable

Self-ignition : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3. "Possibility of hazardous reactions"

10.2 Chemical stability

hygroscopic

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : not known

10.6 Hazardous decomposition products

When handled and stored appropriately, no dangerous decomposition products are known

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Remarks: not tested.

Acute dermal toxicity : Remarks: not tested.

Components:

Diethylene glycol:

Acute oral toxicity : LD50 (Rat, male): 19.600 mg/kg
Method: Other
GLP: no
Assessment: The component/mixture is moderately toxic after single ingestion.

Skin corrosion/irritation

Product:

Remarks : not tested.

Components:

Diethylene glycol:

Species : Rabbit
Exposure time : 23 h
Method : Draize Test
Result : No skin irritation
GLP : no

Serious eye damage/eye irritation

Product:

Remarks : not tested.

Components:

Diethylene glycol:

Species : Rabbit
Method : Other
Result : No eye irritation
GLP : no

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Respiratory or skin sensitisation

Product:

Remarks : not tested.

Components:

Diethylene glycol:

Test Type : Maximisation Test
Exposure routes : Dermal
Species : Guinea pig
Method : Directive 67/548/EEC, Annex V, B.6.
Result : Not a skin sensitizer.
GLP : yes

Assessment : Harmful if swallowed.

Germ cell mutagenicity

Product:

Germ cell mutagenicity-
Assessment : No information available.

Components:

Diethylene glycol:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 33 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Ames test
Test system: Escherichia coli
Concentration: 33 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male)
Strain: NMRI
Cell type: Bone marrow
Application Route: Intraperitoneal injection
Exposure time: once
Dose: 500 - 1000 - 2000 mg/kg
Method: OECD Test Guideline 474
Result: negative
GLP: yes

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Germ cell mutagenicity-
Assessment : In vivo tests did not show mutagenic effects, In vitro tests did not show mutagenic effects

Carcinogenicity

Product:

Carcinogenicity -
Assessment : No information available.

Components:

Diethylene glycol:

Carcinogenicity -
Assessment : Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Product:

Reproductive toxicity -
Assessment : No information available.

No information available.

Components:

Diethylene glycol:

Effects on fertility : Test Type: Two-generation study
Species: Mouse, male and female
Strain: CD1
Application Route: Drinking water
Dose: 612 - 3063 - 6125 mg/kg
General Toxicity - Parent: NOAEL: 3.060 mg/kg body weight
Method: Other
GLP: No information available.

Effects on foetal
development : Test Type: Pre-natal
Species: Rabbit, female
Application Route: oral (gavage)
Dose: 100 - 400 - 1000 mg/kg
Duration of Single Treatment: 12 d
General Toxicity Maternal: NOAEL: 1.000 mg/kg body weight
Teratogenicity: NOAEL: > 1.000 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

Reproductive toxicity -
Assessment : No reproductive toxicity to be expected.
No teratogenic effects to be expected.

STOT - single exposure

Product:

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Remarks : not tested.

Components:

Diethylene glycol:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Product:

Remarks : not tested.

Components:

Diethylene glycol:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Remarks : not tested.

Components:

Diethylene glycol:

Species : Rat, male and female
NOAEL : 936 mg/kg bw/day
Application Route : oral (feed)
Exposure time : 4 w
Number of exposures : daily
Dose : 500-2500-10000-40000mg/kg diet
Control Group : yes
Method : OECD Test Guideline 407
GLP : yes

Species : Dog, male
NOAEL : 2200 mg/kg bw/day
Application Route : Skin contact
Exposure time : 4 w
Number of exposures : daily
Dose : 0,5 - 2 - 8 ml/kg
Control Group : yes
Method : OECD Test Guideline 410
GLP : yes
Remarks : By analogy with a product of similar composition

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Aspiration toxicity

Components:

Diethylene glycol:

No aspiration toxicity classification

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: not tested.

Toxicity to daphnia and other aquatic invertebrates : Remarks: not tested.

Toxicity to algae/aquatic plants : Remarks: not tested.

Toxicity to microorganisms :
Remarks: not tested.

Components:

Diethylene glycol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 75.200 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: Other
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10.000 mg/l
Exposure time: 24 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412
GLP: no
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : EC50 (green algae): 9.362 mg/l
Exposure time: 96 h
Analytical monitoring: no
Method: estimated
GLP: no

Toxicity to microorganisms : EC20 (activated sludge): > 1.995 mg/l
Exposure time: 0,5 h
Test Type: static test
Analytical monitoring: no

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Method: ISO 8192

GLP: no

Toxicity to fish (Chronic toxicity) : Chronic Toxicity Value: 7.694 mg/l
 End point: Other
 Exposure time: 30 d
 Species: Fish
 Method: Other
 GLP: no
 Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Chronic Toxicity Value: 1.891 mg/l
 Exposure time: 16 d
 Species: Daphnia sp. (water flea)
 Method: Other
 GLP: no

Toxicity to soil dwelling organisms : LC50: 10.974 mg/kg
 Exposure time: 63 d
 End point: mortality
 Species: Eisenia andrei (red worm)
 Method: Other
 GLP: No information available.

LC50: 15.689 mg/kg
 Exposure time: 28 d
 End point: mortality
 Species: Folsomia candida
 Method: Other
 GLP: No information available.

Plant toxicity : EC50: 18.102 mg/kg
 Exposure time: 14 d
 End point: emergence
 Species: Medicago sativa L.
 Method: Other
 GLP: yes

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Not applicable

Components:

Diethylene glycol:

Biodegradability : Test Type: aerobic
 Inoculum: activated sludge
 Concentration: 44 mg/l
 Result: Readily biodegradable.
 Biodegradation: 70 - 80 %

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Related to: Carbon dioxide (CO₂)
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: no

Test Type: aerobic
Inoculum: activated sludge
Concentration: 45 mg/l
Result: Biodegradable
Biodegradation: 90 - 100 %
Related to: Dissolved organic carbon (DOC)
Exposure time: 28 d
Method: OECD Test Guideline 301A
GLP: yes

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: not tested.

Components:

Diethylene glycol:

Bioaccumulation : Species: Leuciscus idus (Golden orfe)
Exposure time: 3 d
Concentration: 0,05 mg/l
Bioconcentration factor (BCF): 100
Method: Other
GLP: no

12.4 Mobility in soil

Product:

Distribution among environmental compartments : Remarks: not tested.

Components:

Diethylene glycol:

Distribution among environmental compartments : Adsorption/Soil
Medium: water - soil
log Koc: 0
Method: other (calculated)

12.5 Results of PBT and vPvB assessment

Product:

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

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Components:

Diethylene glycol:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..

12.6 Other adverse effects

Product:

Environmental fate and pathways : no data available

Additional ecological information : The product has not been tested. The information is derived from the properties of the individual components.

Components:

Diethylene glycol:

Environmental fate and pathways : not available

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities

Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste

SECTION 14: Transport information

Section 14.1. to 14.5.

ADR	not restricted
ADN	not restricted
RID	not restricted
IATA	not restricted
IMDG	not restricted

14.6. Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code (International Bulk Chemicals Code)

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No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable
- REACH - List of substances subject to authorisation (Annex XIV) : Not applicable
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
- Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Other regulations:

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

15.2 Chemical safety assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.

Full text of other abbreviations

Acute Tox. : Acute toxicity

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -

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International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information : Observe national and local legal requirements

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