according to GB/T 16483 and GB/T 17519



# OKS 2631 多功能泡沫清洁剂,喷剂

Version Revision Date: Date of last issue: 2022-11-29

1.6 2024-04-10 Date of first issue: 2014-04-15 Print Date: 2024-04-10

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : OKS 2631 多功能泡沫清洁剂, 喷剂

Chemical nature : Active substance with propellant

Aqueous solution

Manufacturer or supplier's details

Company name of supplier : OKS Spezialschmierstoffe GmbH

Ganghoferstr. 47

D-82216 Maisach-Gernlinden Tel.: +49 8142 3051 500 Fax.: +49 8142 3051 599 info@oks-germany.com

E-mail address of person

responsible for the SDS

mcm@oks-germany.com

National contact

Emergency telephone number : +86 532 8388 9090 (NRCC, only for hazardous chemicals)

+86 21 69225521

Recommended use of the chemical and restrictions on use

Recommended use : Cleaning agent / Cleaner

Detergent

Restrictions on use : Restricted to professional users.

### 2. HAZARDS IDENTIFICATION

### **Emergency Overview**

Appearance : aerosol
Colour : white

Odour : characteristic

Extremely flammable aerosol. Pressurised container: May burst if heated. Causes mild skin

irritation. Causes serious eye irritation.

**GHS Classification** 

Aerosols : Category 1

Skin irritation : Category 3

Eye irritation : Category 2A



according to GB/T 16483 and GB/T 17519 CN



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**GHS** label elements

Hazard pictograms :





Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H316 Causes mild skin irritation. H319 Causes serious eye irritation.

Precautionary statements : Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.

No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use. P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

Storage:

P410 + P412 Protect from sunlight. Do not expose to

temperatures exceeding 50 °C/ 122 °F.

Physical and chemical hazards

Extremely flammable aerosol. Pressurised container: May burst if heated.

**Health hazards** 

Causes mild skin irritation. Causes serious eye irritation.

**Environmental hazards** 

Not classified based on available information.

Other hazards which do not result in classification

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture



according to GB/T 16483 and GB/T 17519



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### Components

Chemical name	CAS-No.	Concentration (% w/w)
Propan-2-ol	67-63-0	>= 1 -< 10
Butane	106-97-8	>= 1 -< 10
Ethylene glycol monobutyl ether	111-76-2	>= 1 -< 10
propane	74-98-6	>= 1 -< 10

#### 4. FIRST AID MEASURES

If inhaled Remove person to fresh air. If signs/symptoms continue, get

medical attention.

Keep patient warm and at rest.

If unconscious, place in recovery position and seek medical

Keep respiratory tract clear.

If breathing is irregular or stopped, administer artificial

respiration.

In case of skin contact Take off all contaminated clothing immediately.

Wash off immediately with soap and plenty of water.

Get medical attention immediately if irritation develops and

persists.

Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids,

> for at least 10 minutes. Seek medical advice.

If swallowed Move the victim to fresh air.

> Keep respiratory tract clear. Do NOT induce vomiting. Rinse mouth with water.

Most important symptoms

and effects, both acute and

delayed

Inhalation may provoke the following symptoms:

Unconsciousness

Dizziness **Drowsiness** Headache Nausea Tiredness None known.

Notes to physician Treat symptomatically.

according to GB/T 16483 and GB/T 17519



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#### 5. FIREFIGHTING MEASURES

Suitable extinguishing media : ABC powder

Unsuitable extinguishing

media

High volume water jet

Specific hazards during

firefighting

Fire Hazard

Do not let product enter drains.

Contains gas under pressure; may explode if heated. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Hazardous combustion

products

Carbon oxides

Specific extinguishing

methods

: Standard procedure for chemical fires.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains. Cool containers/tanks with water spray.

Special protective equipment:

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

Exposure to decomposition products may be a hazard to

health.

### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Evacuate personnel to safe areas.

Ensure adequate ventilation.
Remove all sources of ignition.

Do not breathe vapours or spray mist.

Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Try to prevent the material from entering drains or water

courses.

Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

Non-sparking tools should be used.

Prevention of secondary

hazards

Only qualified personnel equipped with suitable protective

equipment may intervene.

according to GB/T 16483 and GB/T 17519



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#### 7. HANDLING AND STORAGE

#### Handling

Advice on safe handling : Do not use in areas without adequate ventilation.

Do not breathe vapours or spray mist.

In case of insufficient ventilation, wear suitable respiratory

equipment.

Avoid contact with skin and eyes. For personal protection see section 8.

Keep away from fire, sparks and heated surfaces.

Smoking, eating and drinking should be prohibited in the

application area.

Wash hands and face before breaks and immediately after

handling the product.

Do not get in eyes or mouth or on skin.

Do not get on skin or clothing.

Do not ingest.

Do not use sparking tools.

These safety instructions also apply to empty packaging which

may still contain product residues.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or

burn, even after use.

Avoidance of contact : Oxidizing agents

Storage

Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun

exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or

red-hot objects.

Store in accordance with the particular national regulations.

Protect from frost.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propan-2-ol	67-63-0	PC-TWA	350 mg/m3	CN OEL



according to GB/T 16483 and GB/T 17519



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				(2019-08-27)
		PC-STEL	700 mg/m3	CN OEL
				(2019-08-27)
		TWA	200 ppm	ACGIH
				(2013-03-01)
		STEL	400 ppm	ACGIH
				(2013-03-01)
Butane	106-97-8	STEL	1,000 ppm	ACGIH
				(2018-03-20)
Ethylene glycol monobutyl	111-76-2	PC-TWA	97 mg/m3	CN OEL
ether				(2019-08-27)
		TWA	20 ppm	ACGIH
				(2013-03-01)

### **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of	n 40 mg/l	ACGIH
FTOPAII-2-01	07-03-0	Aceione	Offine	shift at end of workwee k	40 mg/l	BEI (2007-01- 01)
Ethylene glycol monobutyl ether	111-76-2	Butoxyaceti c acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g creatinine	ACGIH BEI (2010-03- 01)

**Engineering measures** : Use only in an area equipped with explosion proof exhaust

ventilation.

Handle only in a place equipped with local exhaust (or other

appropriate exhaust).

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Recommended Filter type:

Organic gas and low boiling vapour type

Eye/face protection : Safety glasses with side-shields

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.



according to GB/T 16483 and GB/T 17519



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Hand protection

Material : butyl-rubber
Break through time : > 10 min
Protective index : Class 1

Remarks : Wear protective gloves. The break through time depends

amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each

case.

Protective measures : The type of protective equipment must be selected according

to the concentration and amount of the dangerous substance

at the specific workplace.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after

handling.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : aerosol

Colour : white

Odour : characteristic

Odour Threshold : No data available

pH : 10 (20 °C)

Concentration: 100 %

Melting point/range : No data available

Boiling point/boiling range : < 0 °C

(1,013 hPa)

Flash point : < 0 °C

Method: Abel-Pensky

Evaporation rate : No data available

Flammability (solid, gas) : Extremely flammable aerosol.

according to GB/T 16483 and GB/T 17519



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Self-ignition : No data available

Upper explosion limit / Upper

flammability limit

10.6 %(V)

Lower explosion limit / Lower

flammability limit

2 %(V)

Vapour pressure : 48 hPa (20 °C)

Relative vapour density : No data available

Relative density : 0.989 (20 °C)

Reference substance: Water The value is calculated

Density : 0.99 g/cm3 (20 °C)

Bulk density : No data available

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : < 20.5 mm2/s ( 40 °C)

Explosive properties : Not explosive

Oxidizing properties : No data available

Sublimation point : No data available

### 10. STABILITY AND REACTIVITY

Reactivity : No hazards to be specially mentioned.

Chemical stability : Stable under normal conditions.

according to GB/T 16483 and GB/T 17519



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Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid : Heat, flames and sparks.

Strong sunlight for prolonged periods.

Risk of receptacle bursting.

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

No decomposition if stored and applied as directed.

### 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**

**Product:** 

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Symptoms: Inhalation may provoke the following symptoms:,

Respiratory disorder

Acute toxicity estimate: > 40 mg/l

Exposure time: 4 h Test atmosphere: vapour Method: Calculation method

Acute dermal toxicity : Remarks: This information is not available.

**Components:** 

Propan-2-ol:

Acute oral toxicity : LD50 Oral (Rat): 5,840 mg/kg

**Butane:** 

Acute inhalation toxicity : LC50 (Rat): 658 mg/l

Exposure time: 4 h Test atmosphere: gas



according to GB/T 16483 and GB/T 17519



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Ethylene glycol monobutyl ether:

Acute oral toxicity : LD50 (Guinea pig): 1,414 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50: 3 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Assessment: The component/mixture is toxic after short term

inhalation.

Acute dermal toxicity : LD50 (Guinea pig): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

**Product:** 

Remarks : This information is not available.

**Components:** 

Ethylene glycol monobutyl ether:

Species : Rabbit

Assessment : Irritating to skin. Result : Irritating to skin.

Serious eye damage/eye irritation

**Product:** 

Remarks : Irritating to eyes.

**Components:** 

Propan-2-ol:

Result : Irritating to eyes.

Ethylene glycol monobutyl ether:

Species : Rabbit

Result : Irritating to eyes.

according to GB/T 16483 and GB/T 17519



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Assessment : Irritating to eyes.

### Respiratory or skin sensitisation

**Product:** 

Remarks : This information is not available.

### **Components:**

## Ethylene glycol monobutyl ether:

Test Type : Maximisation Test Species : Guinea pig

Assessment : Did not cause sensitisation on laboratory animals. Result : Did not cause sensitisation on laboratory animals.

#### Germ cell mutagenicity

**Product:** 

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

### **Components:**

## Ethylene glycol monobutyl ether:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Rat

Method: OECD Test Guideline 474

Result: negative

Germ cell mutagenicity -

Assessment

: In vitro tests did not show mutagenic effects

### Carcinogenicity

### **Product:**



according to GB/T 16483 and GB/T 17519



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Remarks : No data available

### **Components:**

#### Ethylene glycol monobutyl ether:

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

Assessment

### Reproductive toxicity

**Product:** 

Effects on fertility : Remarks: No data available

Effects on foetal development

: Remarks: No data available

#### **Components:**

### Ethylene glycol monobutyl ether:

Reproductive toxicity - : - Fertility -

Assessment

No toxicity to reproduction

- Teratogenicity -

Animal testing did not show any effects on foetal

development.

### STOT - single exposure

**Product:** 

Remarks : No data available

## **Components:**

Propan-2-ol:

Assessment : May cause drowsiness or dizziness.

## Ethylene glycol monobutyl ether:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

according to GB/T 16483 and GB/T 17519 CN



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STOT - repeated exposure

**Product:** 

Remarks : No data available

**Components:** 

Ethylene glycol monobutyl ether:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

**Product:** 

Remarks : This information is not available.

**Aspiration toxicity** 

**Product:** 

This information is not available.

**Components:** 

Ethylene glycol monobutyl ether:

No aspiration toxicity classification

**Further information** 

**Product:** 

Remarks : Information given is based on data on the components and

the toxicology of similar products.

12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Product:** 

Toxicity to fish

Remarks: No data available

according to GB/T 16483 and GB/T 17519



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Toxicity to daphnia and other :

aquatic invertebrates Remarks: No data available

Toxicity to algae/aquatic

plants Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

### **Components:**

#### Ethylene glycol monobutyl ether:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,474 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1,550 mg/l

Exposure time: 48 h
Test Type: Immobilization

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 1,840

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 286

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

NOEC (Danio rerio (zebra fish)): > 100 mg/l

Exposure time: 21 d

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 100 mg/l

Exposure time: 21 d

Test Type: Reproduction Test Method: OECD Test Guideline 211

according to GB/T 16483 and GB/T 17519 CN



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### Persistence and degradability

**Product:** 

Biodegradability : Remarks: No data available

Physico-chemical

removability

Remarks: No data available

**Components:** 

Propan-2-ol:

Biodegradability : Result: Readily biodegradable.

Ethylene glycol monobutyl ether:

Biodegradability : aerobic

Result: rapidly biodegradable Biodegradation: 90 % Exposure time: 28 d

Method: OECD Test Guideline 301B

**Bioaccumulative potential** 

**Product:** 

Bioaccumulation : Remarks: No data available

**Components:** 

Propan-2-ol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 0.05

**Butane:** 

Partition coefficient: n- : log Pow: 2.89

octanol/water Method: OECD Test Guideline 107

Ethylene glycol monobutyl ether:

Bioaccumulation : Bioconcentration factor (BCF): 3.16

according to GB/T 16483 and GB/T 17519



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Partition coefficient: n- : log Pow: 0.81 (25 °C)

octanol/water Method: OECD Test Guideline 107

propane:

Partition coefficient: n-

octanol/water

log Pow: 2.36

Mobility in soil

**Product:** 

Mobility : Remarks: No data available

Distribution among : Rema

environmental compartments

Remarks: No data available

Other adverse effects

**Product:** 

Additional ecological

information

: No information on ecology is available.

### 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of with domestic refuse.

Dispose of as hazardous waste in compliance with local and

national regulations.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as

the unused product.

Offer empty spray cans to an established disposal company. Pressurized container: Do not pierce or burn, even after use.

### 14. TRANSPORT INFORMATION

## **International Regulations**

**UNRTDG** 

UN number : UN 1950
Proper shipping name : AEROSOLS

Class : 2.1

Packing group : Not assigned by regulation

Labels : 2.1

according to GB/T 16483 and GB/T 17519



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**IATA-DGR** 

UN/ID No. : UN 1950

Proper shipping name : Aerosols, flammable

Class : 2.1

Packing group : Not assigned by regulation

Labels : Flammable Gas

Packing instruction (cargo : 203

aircraft)

Packing instruction : 203

(passenger aircraft)

**IMDG-Code** 

UN number : UN 1950
Proper shipping name : AEROSOLS

Class : 2.1

Packing group : Not assigned by regulation

Labels : 2.1
EmS Code : F-D, S-U
Marine pollutant : no

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

Not applicable for product as supplied.

#### **National Regulations**

### GB 6944/12268

UN number : UN 1950 Proper shipping name : AEROSOLS

Class : 2.1

Packing group : Not assigned by regulation

Labels : 2.1

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 15. REGULATORY INFORMATION

## **National regulatory information**

Law on the Prevention and Control of Occupational Diseases

### **Regulations on Safety Management of Hazardous Chemicals**

Catalogue of Hazardous Chemicals : Not applicable

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218)



according to GB/T 16483 and GB/T 17519



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No. / Code Chemical name / Category Threshold quantity

W3 Aerosols 150 t

Hazardous Chemicals for Priority Management under :

**SAWS** 

Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

Not applicable

China Severely Restricted Toxic Chemicals (2023) : Not applicable

International Regulations

Montreal Protocol : Not applicable

Rotterdam Convention (Prior Informed Consent) : Not applicable

Stockholm Convention (Persistent Organic Pollutants) : Not applicable

The components of this product are reported in the following inventories:

IECSC : Not in compliance with the inventory

### **16. OTHER INFORMATION**

Date format : yyyy/mm/dd

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

CN OEL : Occupational exposure limits for hazardous agents in the

workplace - Chemical hazardous agents.

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit

CN OEL / PC-TWA : Permissible concentration - time weighted average CN OEL / PC-STEL : Permissible concentration - short term exposure limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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

according to GB/T 16483 and GB/T 17519 CN



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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 -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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations: UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods: vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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