4 Symington Place
Riverside Business Park
Irvine
KA11 5DE

SAFETY DATA SHEET

Compilation date: 10/03/2023
Revision: 4*

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product form:	Mixture
Trade name:	Virucidal Cleaner & Sanitiser
Product group:	Trade product
Product code:	PLAT590 / PLAT600
UFI code:	PG50-Q0UW-G001-DK6U

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

Use of the Substance/Mixture: Biocidal product

1.2.1 Relevant identified uses

Main use category:	Industrial / For Professional Use Only
Function or use category:	Washing and cleaning products.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Company Name: Spearhead
4 Symington Place
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Tel: 0345 180 1800
Email: sales@spearheadhealthcare.com

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No. 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720.

Skin irritation, Category 2	H315:	Causes skin irritation.
Eye irritation, Category 2	H319:	Causes serious eye irritation.

2.2 Label elements

Hazard Pictograms (CLP):

Signal word (CLP):	WARNING
Hazard Statements (CLP):	Skin irritation, Category 2 H315: Causes skin irritation. Eye irritation, Category 2 H319: Causes serious eye irritation.
Precautionary Statements (CLP):	P280 Wear protective gloves/ eye protection/ face protection. P302 + P352 IF ON SKIN: Wash with plenty of water. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. P337 + P313 If eye irritation persists: Get medical advice/ attention. P264 Wash skin thoroughly after handling. P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label: 2-Aminoethanol
Didecyldimethylammonium chloride

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name	CAS No./ EC No.	Classification According to (EC) 1272/2008 (CLP)	Conc (%)
2-AMINOETHANOL	141-43-5 205-483-3	Acute Tox. 4: H302 Acute Tox. 4: H312 Acute Tox. 4: H332 Skin Corr. 1B: H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412 STOT SE 3: H335	0.1 - 0.2
REACH registration number: 01-2119486455-28-XXXX			
DIDECYL DIMETHYL AMMONIUM CHLORIDE	7173-51-5 230-525-2	Acute Tox. 3: H301 Skin Corr. 1B: H314 Eye Dam. 1; H318 Aquatic Acute 1: H400 Aquatic Chronic 2: H411 M-Factor (Acute aquatic toxicity): 10	0.1 - 0.2
REACH registration number: 01-2119945987-15-XXXX			

The full texts for all H- and EUH-phrases are displayed in Section 16 'Other Information'.

4. FIRST AID MEASURES

4.1. Description of first aid measures
4.1. Description of first aid measures

If inhaled:	Move to fresh air. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial respiration.
In case of skin contact:	After contact with skin, wash immediately with plenty of soap and water. If on clothes, remove clothes. In the case of skin irritation or allergic reactions see a physician.
In case of eye contact:	Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes. Call a physician immediately. Remove contact lenses. Keep eye wide open while rinsing. Protect unharmed eye. Continue rinsing eyes during transport to hospital. Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
If swallowed:	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms: No information available.

4.3. Indication of any immediate medical attention and special treatment needed
Treatment: Treat symptomatically.

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5. FIREFIGHTING MEASURES

5.1. Extinguishing media:
Suitable extinguishing media: Water spray Alcohol-resistant foam Dry chemical. Unsuitable extinguishing media: High volume water jet.

5.2. Special hazards:
Specific hazards during firefighting: Heating or fire can release toxic gas.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Personal precautions: Use personal protective equipment. Use respirator when performing operations involving potential exposure to vapour of the product.

6.2 Environmental precautions Environmental precautions
Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up
Methods for cleaning up: Neutralise with acid. 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).

6.4 Reference to other sections
For personal protection see section 8. For disposal considerations see section 1

7. HANDLING & STORAGE

7.1 Precautions for safe handling
Advice on safe handling: Do not breathe vapours/dust. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Provide sufficient air exchange and/or exhaust in work rooms. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion: Normal measures for preventive fire protection.
Hygiene measures: Wash hands before breaks and at the end of workday. Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers: Keep container tightly closed. Keep in a well-ventilated place. Electrical installations / working materials must comply with the technological safety standards. To maintain product quality, do not store in heat or direct sunlight. To prevent leaks or spillages from spreading, provide a suitable liquid retention system.
Advice on common storage: Do not store near acids. Further information on storage stability: No decomposition if stored and applied as directed.

7.3 Specific end use(s) Specific use(s):
No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:
Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-Aminoethanol	141-43-5	TWA	1 ppm 2,5 mg/m3	EH40 WEL
		STEL	3 ppm (7,6 mg/m3)	EH40 WEL

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Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
2-Aminoethanol	Workers	Inhalation	Long-term local effects	3,3 mg/m3
	Consumers	Inhalation	Long-term local effects	2 mg/m3
	Consumers	Oral	Long-term systemic effects	3,75 mg/kg
	Consumers	Dermal	Long-term systemic effects	0,24 mg/kg
Didecyldimethylammonium Chloride	Workers	Inhalation	Long-term systemic effects	5,39 mg/m3
	Workers	Inhalation	Acute systemic effects	5,39 mg/m3
	Workers	Dermal	Long-term systemic effects	1,55 mg/kg
	Workers	Dermal	Acute systemic effects	1,55 mg/kg

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
2-Aminoethanol	Fresh water	0,085 mg/l
	Soil	0,0367 mg/kg
	Marine sediment	0,0434 mg/kg
	Fresh water sediment	0,434 mg/kg
	Sewage treatment plant	100 mg/l
	Intermittent use/release	0,028 mg/l
	Marine water	0,0085 mg/l
Didecyldimethylammonium chloride	Fresh water	0,002 mg/l
	Marine water	0,0002 mg/l
	Fresh water sediment	2,82 mg/kg
	Marine sediment	0,28 mg/kg
	Sewage treatment plant	0,595 mg/l
	Soil	1,4 mg/kg

8.2. Exposure controls

8.2.1. Appropriate engineering controls:	Not applicable.
8.2.2. Personal protective equipment	
Eye/face protection:	Safety glasses with side-shields conforming to EN166 Wear face-shield and protective suit for abnormal processing problems.
Hand protection	Material: Nitrile rubber Remarks: Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Wear protective gloves. Break through time: > 480 min
Skin and body protection:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Rubber or plastic apron Rubber or plastic boots
Respiratory protection:	In the case of vapour formation use a respirator with an approved filter. Respirator with ABEK filter.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Colourless Liquid
Odour:	No Perceptible Odour
pH (1000g/1):	12.04
Melting point:	0°C
Boiling point:	100°C
Flash point:	Not combustible
Evaporation rate:	Not determined
Flammability:	Not combustible
Explosive properties:	Non-Explosive
Oxidising properties:	Non-Oxidising
Vapour pressure/density:	Not determined

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Relative density:	ca. 1
Water solubility:	high
Partition coefficient:	Not determined
Auto ignition temperature:	Not combustible
Decomposition temperature:	Not determined
Viscosity:	Not determined

10. STABILITY & REACTIVITY

10.1 Reactivity:	No decomposition if stored and applied as directed.
10.2 Chemical stability:	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions:	Hazardous reactions: Stable under recommended storage conditions.
10.4 Conditions to avoid:	Heat.
10.5 Incompatible materials:	Materials to avoid: Oxidizing agents Strong acids and strong bases.
10.6 Hazardous decomposition products:	No decomposition if used as directed.

11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Acute toxicity	
Acute oral toxicity:	Acute toxicity estimate: > 2 000 mg/kg Method: Calculation method
Acute inhalation toxicity:	Remarks: No data available
Acute dermal toxicity:	Remarks: No data available
Skin corrosion/irritation:	Species: human keratinocytes Method: in vitro assay Result: non-corrosive Assessment: Irritating to skin.
Serious eye damage/eye irritation:	Species: Human Method: in vitro assay Assessment: Eye irritation
Respiratory or skin sensitisation:	Remarks: No data available
Germ cell mutagenicity:	
Genotoxicity in vitro:	Remarks: No data available
Carcinogenicity:	Remarks: No data available
Reproductive toxicity	
Effects on fertility:	Remarks: No data available
STOT - single exposure:	Remarks: No data available
STOT - repeated exposure:	Remarks: No data available
Aspiration toxicity:	No aspiration toxicity classification

11.2 Information on other hazards

Further information	Remarks: No data available

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The following toxicological data refer to:
Didecyldimethylammonium chloride **(CAS-No.: 7173-51-5)**

Acute toxicity

Acute oral toxicity:	LD50 (Rat): 238 mg/kg
Method:	OECD Test Guideline 401
	GLP: yes
Acute dermal toxicity:	LD50 (Rabbit, male and female): 3 342 mg/kg
Method:	US-EPA
	GLP: yes
Skin corrosion/irritation:	Species: Rabbit
	Exposure time: 3 min
	Method: OECD Test Guideline 404
	Result: Skin irritation
	GLP: yes
	Species: Rabbit
	Exposure time: 4 h
	Method: OECD Test Guideline 404
	Result: Severe skin irritation
	GLP: yes
	Assessment: Causes burns.
Respiratory or skin sensitisation:	Test Type: Buehler Test
	Species: Guinea pig
	Assessment: Did not cause sensitisation on laboratory animals. Method: US-EPA
	Result: not sensitizing
	GLP: yes
	Test Type: Buehler Test
	Species: Guinea pig
	Method: OECD Test Guideline 406
	Result: not sensitizing

Germ cell mutagenicity

Genotoxicity in vitro:	Test Type: Ames test
	Species: Salmonella typhimurium
	Metabolic activation: yes
	Method: OECD
	Test Guideline 471
	Result: negative
	GLP: yes
	Test Type: Chromosome aberration test in vitro
	Species: Chinese hamster ovary cells
	Metabolic activation: yes
	Result: negative
	GLP: yes

Test Type: gene mutation test
Species: Chinese hamster ovary cells
Metabolic activation: yes
Result: negative
GLP: yes

Genotoxicity in vivo:
Test Type: Chromosome aberration test in vivo
Species: Rat Application
Route: Oral Dose: 600 mg/kg
Method: OECD
Test Guideline 475
Result: negative
GLP: yes

Reproductive toxicity

Effects on fertility: Remarks: No data available

2-Aminoethanol **(CAS-No.: 141-43-5)**

Acute toxicity

Acute oral toxicity: LD50 (Rat): 1 515 mg/kg
Acute inhalation toxicity: Remarks: No data available
Acute dermal toxicity: LD50 (Rabbit): 1 025 mg/kg

Skin corrosion/irritation

Species: Rabbit
Exposure time: 4h
Result: Corrosive

Serious eye damage/eye irritation

Species: Rabbit
Result: Corrosive

Species: Rabbit
Result: Severe eye irritation

Respiratory or skin sensitisation

Remarks: No data available

Germ cell mutagenicity

Genotoxicity in vitro:
Test Type: Ames test
Result: negative

Genotoxicity in vivo:
Test Type: In vivo micronucleus test
Result: negative

Carcinogenicity

Remarks: No data available

Reproductive toxicity

Remarks: No data available

Effects on foetal development:
Species: Rat

Application Route: Oral
Dose: 0, 40, 120, 450 milligram per kilogram
Duration of Single Treatment: 10 d
General Toxicity Maternal: NOAEL: 120 mg/kg body weight
Teratogenicity: NOAEL: > 450 mg/kg body weight
Method: OECD
Test Guideline 414
Result: No teratogenic effects

STOT - single exposure

Remarks: No data available

Repeated dose toxicity

Species: Rat, male and female
NOAEL: 300 mg/kg
Application Route: Oral
Number of exposures: daily

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish: Remarks: No data available

12.2 Persistence and degradability

Biodegradability: Remarks: No data available

12.3 Bioaccumulative potential

Bioaccumulation: Remarks: No data available

12.4 Mobility in soil

Distribution among environmental compartments: Remarks: No data available

12.5 Results of PBT and vPvB assessment

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.

12.6 Other adverse effects

Additional ecological information: No data available

The following ecotoxicological data refer to:

Didecyldimethylammonium chloride (CAS-No.: 7173-51-5)

Toxicity to fish:
LC50 (Pimephales promelas (fathead minnow)): 0,19 mg/l
Exposure time: 96 h
Analytical monitoring: yes
Method: US-EPA
GLP: yes

Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia magna (Water flea)): 0,062 mg/l
Exposure time: 48 h
Test Type: Immobilization
Analytical monitoring: yes
Method: EPA-FIFRA
GLP: yes

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	NOEC (Daphnia magna (Water flea)): 0,014 mg/l Exposure time: 21 d Remarks: Geometric mean of multiple studies of equivalent relevance/quality (EU Active Substance Assessment Report, June 2015).
Toxicity to algae:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,026 mg/l Exposure time: 96 h Test Type: Growth inhibition Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
M-Factor (Short-term (acute) aquatic hazard):	10
Toxicity to fish (Chronic toxicity):	NOEC: 0,032 mg/l Exposure time: 34 d Species: Danio rerio (zebra fish) Analytical monitoring: yes Method: OECD Test Guideline 210 GLP: yes
Toxicity to microorganisms:	EC50 (activated sludge): 11 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 GLP: yes
Toxicity to soil dwelling organisms:	Test Type: Acute toxicity NOEC: >= 1 000 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207 GLP:yes
Plant toxicity:	EC50: 283 - 1 670 mg/kg Exposure time: 14 d End point: Growth inhibition Method: OECD Test Guideline 208
Biodegradability:	Test Type: Modified Sturm Test Concentration: 10 mg/l Result: Readily biodegradable.
Biodegradation:	72 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: yes

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	Test Type: Die-Away Test Concentration: 0,016 mg/l Biodegradation: 93,3 % Exposure time: 28 d GLP: yes Test Type: OECD Confirmatory Test Biodegradation: 91 % Exposure time: 24 - 70 d Method: OECD Test Guideline 303A GLP: no
Stability in water:	Test Type: Abiotic degradation hydrolytically stable Method: EPA-FIFRA GLP: yes
Distribution among environmental compartments:	Mobile in soils Method: US-EPA
2-Aminoethanol	**(CAS-No.: 141-43-5)**
Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): 150 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): 65 mg/l Exposure time: 48 h Test Type: static test NOEC (Daphnia magna (Water flea)): 0,85 mg/l Exposure time: 21 h
Toxicity to algae:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 2,5 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201 NOEC (Pseudokirchneriella subcapitata (green algae)): 1 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity):	NOEC: 1,2 mg/l Exposure time: 30 d Species: Oryzias latipes (Orange-red killifish) NOEC: 1,24 mg/l Exposure time: 41 d Species: Oryzias latipes (Japanese medaka) LOEC: 3,55 mg/l Exposure time: 41 d Species: Oryzias latipes (Japanese medaka)

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
NOEC: 0,85 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

Toxicity to microorganisms:
EC50 (activated sludge): > 1 000 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD
Test Guideline 209

EC10 (Pseudomonas putida): 6 300 mg/l
Exposure time: 16 h
Test Type: Growth inhibition
Method: DIN 38412 Part 8

Biodegradability:
Test Type: Modified Sturm
Test Result: Readily biodegradable.

Biodegradation: > 80 %
Exposure time: 19 d
Method: OECD
Test Guideline 301B

Bioaccumulation:
Bioconcentration factor (BCF): < 100

13. DISPOSAL CONSIDERATIONS

Product:
Dispose of contents/container in accordance with local regulation. Contact waste disposal services. Do not dispose of waste into sewer.

Contaminated packaging:
Dispose of as unused product. Do not re-use empty containers.

14. TRANSPORT INFORMATION

UN No:	None
Classification:	Not classified as hazardous for transport.
UN proper shipping name:	None
Transport hazard class:	Not subject to ADR/IATA/IMDG/RID codes.
Packing group:	None
Environmental hazards:	None
Special precautions for user:	None

15. REGULATORY INFORMATION

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

15.1.1. EU-Regulations

Control of Major Accident Hazards Regulations 2015 (COMAH)
Not applicable

National regulatory information
Water hazard class (Germany): WGK 1 slightly hazardous to water

16. OTHER INFORMATION

Classification of the mixture:		Classification procedure:
Skin Irrit. 2	H315	Based on product data or assessment
Eye Irrit. 2	H319	Based on product data or assessment

Full text of H-Statements

H301:	Toxic if swallowed.
H302:	Harmful if swallowed.
H312:	Harmful in contact with skin.
H314:	Causes severe skin burns and eye damage.
H318:	Causes serious eye damage.
H332:	Harmful if inhaled.
H335	May cause respiratory irritation.
H400:	Very toxic to aquatic life.
H411:	Toxic to aquatic life with long lasting effects.
H412:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.:	Acute toxicity
Aquatic Acute:	Short-term (acute) aquatic hazard
Aquatic Chronic:	Long-term (chronic) aquatic hazard
Eye Dam.:	Serious eye damage
Skin Corr.:	Skin corrosion
EH40 WEL:	UK. EH40 Workplace Exposure Limits (WELs), as amended
EH40 WEL / STEL:	Short term exposure limit
EH40 WEL / TWA:	Time weighted average

Usage and handling instructions are not mentioned on this Material Safety Data Sheet.
The labelling of the product is indicated in Section 2.2.

* Version History - Reason for Revision:
1. Add Classification Accoding to (EC) 1272/2008 (CLP)
2. Remove Classification According to Directive 67/548/EEC or 1999/45/EC. Update Supplier Address.
3. Update UK REACH Regulations. Update GB-CLP Regulation. Update UK SI.
4. UFI Code Added

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; 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 - 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; 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

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