Scott® Control™ Antibacterial Foam Hand Cleanser

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1.4	14.03.2019	100000021152	Date of first issue: 15.12.2018

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

1.1 Product identifier

Trade name	:	Scott® Control™ Antibacterial Foam Hand Cleanser
Product code	:	06348020
Product code	:	6348

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

1.3 Details of the supplier of the safety data sheet

Company	:	Kimberly-Clark Europe Limited 40 London Road Reigate Surrey RH2 9QP United Kingdom
Telephone	:	+44 1737 736000
Telefax	:	+44 1737 736670
E-mail address Responsible/issuing person	:	sdscontact@kcc.com

1.4 Emergency telephone number

	:	+44 1865 407333 This telephone number is available 24 hours per day, 7 days per week.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2	H319: Causes serious eye irritation.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.

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

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
D-glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 3 - < 5
Cocamidopropyl Betaine	61789-40-0 263-058-8	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 5
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1 500-220-1	Eye Dam. 1; H318	>= 1 - < 3
Tridecanol, branched, ethoxylated	69011-36-5 500-241-6	Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411	>= 1 - < 2.5
D-gluconic acid, compound with	18472-51-0	Eye Dam. 1; H318	>= 0.25 - < 1

N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)	242-354-0	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
didecyldimethylammonium chloride	7173-51-5 230-525-2	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Chronic 1; H410	>= 0.25 - < 1
Undecylenamidopropyltrimonium Methosulfate	94313-91-4	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400	>= 0.25 - < 1
Substances with a workplace exposure limit :			
Glycerol	56-81-5 200-289-5		>= 1 - < 5
Propylene Glycol	57-55-6 200-338-0		>= 1 - < 5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : No hazards which require special first aid measures.

If inhaled : Not required under normal use.

In case of skin contact : No hazards which require special first aid measures.

In case of eye contact : Flush eyes with water as a precaution.
If eye irritation persists, consult a specialist.

If swallowed : Not required under normal use.
Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No hazards which require special first aid measures.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media	:	No information available.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	No special precautions required.
Hazardous combustion products	:	No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.
Further information	:	Product contains a high percentage of water. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Material can create slippery conditions.

6.2 Environmental precautions

Environmental precautions	:	No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	No special precautions required.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Hygiene measures	:	not required under normal use

7.2 Conditions for safe storage, including any incompatibilities

Advice on common storage	:	No special restrictions on storage with other products.
Other data	:	No decomposition if stored normally.

7.3 Specific end use(s)

Specific use(s) : Biocidal product

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Glycerol	56-81-5	TWA (Mist)	10 mg/m3	GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
Propylene Glycol	57-55-6	TWA (particles)	10 mg/m3	GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
		TWA (Total vapour and particles)	150 ppm 474 mg/m3	GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			

8.2 Exposure controls

Engineering measures

none

Personal protective equipment

Eye protection : not required under normal use

Hand protection
Remarks : not required under normal use

Skin and body protection : not required under normal use

Respiratory protection : No personal respiratory protective equipment normally required.

Protective measures : No special protective equipment required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

pH : 5.3 - 5.7

Melting point/range : 0 °C

Boiling point/boiling range	:	100 °C
Flash point	:	does not flash
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Vapour pressure	:	similar to water
Solubility(ies)		
Water solubility	:	completely soluble
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored normally.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : No information available.

10.5 Incompatible materials

Materials to avoid : None.

10.6 Hazardous decomposition products

Stable under normal conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:

D-glucopyranose, oligomeric, C10-16-alkyl glycosides:

Acute oral toxicity : LD50 Oral (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

D-glucopyranose, oligomers, decyl octyl glycosides:

Acute oral toxicity : LD50 Oral (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 423
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

Tridecanol, branched, ethoxylated:

Acute oral toxicity : LD50 Oral (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 423
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.6 mg/l
Exposure time: 4 h
Method: OECD Test Guideline 403
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit, male): 5,960 mg/kg
Method: Acute toxicity estimate
GLP: no

D-gluconic acid, compound with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1):

Acute oral toxicity : LD50 (Rat, male): 2,270 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg
Method: see user defined free text
GLP: No information available.

didecyldimethylammonium chloride:

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg
Method: Converted acute toxicity point estimate

Glycerol:

Acute oral toxicity : LD50 Oral (Mouse, male): 23,000 mg/kg
Method: Acute toxicity estimate
GLP: no

Acute inhalation toxicity : LC50 (Rat, male): > 2.75 mg/l
Method: Acute toxicity estimate
GLP: no

Acute dermal toxicity : LD50 Dermal (Guinea pig, male and female): 56,750 mg/kg
Method: Acute toxicity estimate
GLP: no

Propylene Glycol:

Acute oral toxicity : LD50 Oral (Rat, male and female): 22,000 mg/kg
Method: Acute toxicity estimate
GLP: no

Acute inhalation toxicity : LC50 (Rabbit): > 317,042 mg/m3
Exposure time: 2 h
Method: No information available.
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg
Method: No information available.
GLP: no

Skin corrosion/irritation

Not classified based on available information.

Product:

Assessment: No skin irritation

Components:

D-glucopyranose, oligomeric, C10-16-alkyl glycosides:

Species: Rabbit
Method: OECD Test Guideline 404
Result: Skin irritation
GLP: yes

Cocamidopropyl Betaine:

Result: Skin irritation

D-glucopyranose, oligomers, decyl octyl glycosides:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

Tridecanol, branched, ethoxylated:

Species: Rabbit
Method: OECD Test Guideline 404
Result: irritating
GLP: no

D-gluconic acid, compound with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1):

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

didecyldimethylammonium chloride:

Species: Rabbit
Method: OECD Test Guideline 404
Result: Corrosive
GLP: yes

Undecylenamidopropyltrimonium Methosulfate:

Result: Skin irritation

Glycerol:

Species: Rabbit
Method: No information available.
Result: No skin irritation
GLP: no

Propylene Glycol:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: No information available.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Result: Irritating to eyes.

Components:

D-glucopyranose, oligomeric, C10-16-alkyl glycosides:

Species: Rabbit
Method: OECD Test Guideline 405
Result: Corrosive
GLP: yes

Cocamidopropyl Betaine:

Result: Eye irritation

D-glucopyranose, oligomers, decyl octyl glycosides:

Species: Rabbit
Method: OECD Test Guideline 405
Result: Risk of serious damage to eyes.
GLP: yes

Tridecanol, branched, ethoxylated:

Species: Rabbit
Method: OECD Test Guideline 405
Result: Risk of serious damage to eyes.
GLP: No information available.

D-gluconic acid, compound with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1):

Species: Rabbit
Method: OECD Test Guideline 405
Result: Risk of serious damage to eyes.
GLP: no

didecyldimethylammonium chloride:

Species: Rabbit
Result: Eye irritation
GLP: no

Undecylenamidopropyltrimonium Methosulfate:

Result: Risk of serious damage to eyes.

Glycerol:

Species: Rabbit
Assessment: No eye irritation
Method: No information available.
Result: No eye irritation
GLP: no

Propylene Glycol:

Species: Rabbit
Method: OECD Test Guideline 405
Result: No eye irritation
GLP: No information available.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks: No data available

Components:

D-glucopyranose, oligomeric, C10-16-alkyl glycosides:

Test Type: Buehler Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.
GLP: yes

D-glucopyranose, oligomers, decyl octyl glycosides:

Test Type: Maximisation Test
Species: Guinea pig
Method: Maximisation Test
Result: Did not cause sensitisation on laboratory animals.
GLP: yes

Tridecanol, branched, ethoxylated:

Test Type: Maximisation Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.
GLP: no

D-gluconic acid, compound with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1):

Test Type: Maximisation Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.
GLP: no

didecyldimethylammonium chloride:

Species: Guinea pig

Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.
GLP: yes

Glycerol:

Test Type: Draize Test
Exposure routes: Dermal
Species: Humans
Result: Does not cause skin sensitisation.

Propylene Glycol:

Test Type: Maximisation Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.
GLP: No information available.

Germ cell mutagenicity

Not classified based on available information.

Product:

Germ cell mutagenicity- Assessment : No information available.

Components:

Glycerol:

Genotoxicity in vitro : Result: negative

Carcinogenicity

Not classified based on available information.

Product:

Carcinogenicity - Assessment : No information available.

Components:

Glycerol:

Species: Rat, (male and female)
Application Route: Oral
Exposure time: 24 month(s)
Frequency of Treatment: 1 daily

Reproductive toxicity

Not classified based on available information.

Product:

Reproductive toxicity - Assessment : No information available.

Components:

Glycerol:

Effects on foetal development : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Dose: 2000 milligram per kilogram
Frequency of Treatment: 1 daily

STOT - single exposure

Not classified based on available information.

Product:

Remarks: No data available

STOT - repeated exposure

Not classified based on available information.

Product:

Remarks: No data available

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

SECTION 12: Ecological information

12.1 Toxicity

Components:

D-glucopyranose, oligomeric, C10-16-alkyl glycosides:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 2.95 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: Tested according to Directive 92/69/EEC.
GLP: yes

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 12.5 mg/l
Exposure time: 72 h
Test Type: static test
Method: No information available.
GLP: yes

EC50 (Desmodesmus subspicatus (green algae)): 5 mg/l
Exposure time: 72 h
Test Type: static test
Method: No information available.
GLP: yes

EC50 (Desmodesmus subspicatus (green algae)): 25 mg/l
Exposure time: 72 h
Test Type: static test
Method: No information available.
GLP: yes

EC50 (Desmodesmus subspicatus (green algae)): 10 mg/l
Exposure time: 72 h
Test Type: static test
Method: No information available.
GLP: yes

D-glucopyranose, oligomers, decyl octyl glycosides:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 100.81 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: ISO 7346/1
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 37 mg/l
Exposure time: 72 h
Test Type: static test
Method: see user defined free text
GLP: yes

Tridecanol, branched, ethoxylated:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 2.5 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: Directive 67/548/EEC, Annex V, C.1.
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.5 mg/l
Exposure time: 48 h
Test Type: static test
Method: Directive 67/548/EEC, Annex V, C.2.
GLP: yes

D-gluconic acid, compound with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1):

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 2.08 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.087 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae)): 0.081 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0.0206 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) GLP: yes
M-Factor (Chronic aquatic toxicity)	:	1

didecyldimethylammonium chloride:

Ecotoxicology Assessment

Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.

Undecylenamidopropyltrimonium Methosulfate:

Ecotoxicology Assessment

Acute aquatic toxicity	:	Very toxic to aquatic life.

Glycerol:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l Exposure time: 96 h Test Type: static test Method: No information available. GLP: no
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,955 mg/l Exposure time: 48 h Test Type: static test

Method: No information available.
GLP: no

Propylene Glycol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l
Exposure time: 96 h
Test Type: static test
Method: No information available.
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Americamysis): 18,800 mg/l
Exposure time: 96 h
Test Type: static test
Method: No information available.
GLP: yes

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 24,200 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 13,020 mg/l
Exposure time: 7 d

12.2 Persistence and degradability

Components:

D-glucopyranose, oligomeric, C10-16-alkyl glycosides:

Biodegradability : Result: Readily biodegradable.

Cocamidopropyl Betaine:

Biodegradability : Result: Readily biodegradable.

D-glucopyranose, oligomers, decyl octyl glycosides:

Biodegradability : Result: Readily biodegradable.

Glycerol:

Biodegradability : Result: Readily biodegradable.

12.3 Bioaccumulative potential

Components:

D-glucopyranose, oligomeric, C10-16-alkyl glycosides:

Partition coefficient: n- : log Pow: <= -0.07

octanol/water

D-glucopyranose, oligomers, decyl octyl glycosides:

Partition coefficient: n-octanol/water : log Pow: 1.72 (40 °C)

Tridecanol, branched, ethoxylated:

Partition coefficient: n-octanol/water : log Pow: 6.4

D-gluconic acid, compound with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1):

Partition coefficient: n-octanol/water : log Pow: 1.58

didecyldimethylammonium chloride:

Partition coefficient: n-octanol/water : log Pow: 0.38

12.4 Mobility in soil

No data available

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..

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

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

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

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 (EC) No 850/2004 on persistent organic pollutants	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

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

REACH	:	This mixture contains only ingredients which have been registered according to Regulation (EC) No. 1907/2006 (REACH).

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

H302	:	Harmful if swallowed.
H314	:	Causes severe skin burns and eye damage.

H315	:	Causes skin irritation.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H330	:	Fatal if inhaled.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H411	:	Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Acute aquatic toxicity
Aquatic Chronic	:	Chronic aquatic toxicity
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Skin Corr.	:	Skin corrosion
Skin Irrit.	:	Skin irritation

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 - 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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a

guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN