SAFETY DATA SHEET

Scott® Essential Continuous Air Freshener, Summer Fresh

Version	Revision Date:	SDS Number:	Date of last issue: 02-07-2020
1.3	02-28-2020	N00101237002	Date of first issue: 01-27-2020

SECTION 1. IDENTIFICATION

Product name : Scott® Essential Continuous Air Freshener, Summer Fresh

Product code : 12370

Manufacturer or supplier's details

Company : Kimberly-Clark Corporation
1400 Holcomb Bridge Road
Roswell
30076-2199
USA

Telephone : 1-888-346-4652

Emergency telephone : 1-877-561-6587

Transport Emergency : CHEMTREC: 1-800-424-9300

E-mail address Responsible/issuing person : sdscontact@kcc.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 4

GHS label elements

Signal Word : Warning

Hazard Statements : H227 Combustible liquid.

Precautionary Statements :

Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Dipropylene glycol methyl ether	34590-94-8	>= 90 - <= 100
2,6-dimethylheptan-2-ol	13254-34-7	>= 10 - < 20
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6	>= 10 - < 20
benzyl acetate	140-11-4	>= 10 - < 20
allyl hexanoate	123-68-2	>= 5 - < 10
cis-hex-3-en-1-ol	928-96-1	>= 5 - < 10
Linalool	78-70-6	>= 5 - < 10
2-phenylethanol	60-12-8	>= 5 - < 10
allyl 3-cyclohexylpropionate	2705-87-5	>= 5 - < 10
orange oil	8008-57-9	>= 5 - < 10
Butanoic acid, 3-methyl-, ethyl ester	108-64-5	>= 1 - < 5
isopentyl acetate	123-92-2	>= 1 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. 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 : Not required under normal use.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If swallowed : Not required under normal use.

Most important symptoms and effects, both acute and delayed : No hazards which require special first aid measures.

SECTION 5. FIRE-FIGHTING MEASURES

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

Hazardous combustion products : No hazardous combustion products are known

Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

for fire-fighters

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Material can create slippery conditions.
Environmental precautions	:	No special environmental precautions required.
Methods and materials for containment and cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	No special precautions required.
Conditions for safe storage	:	Keep in a dry, cool and well-ventilated place.
Materials to avoid	:	No materials to be especially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Dipropylene glycol methyl ether	34590-94-8	TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		TWA	100 ppm 600 mg/m3	OSHA Z-1
		TWA	100 ppm 600 mg/m3	OSHA P0
		STEL	150 ppm 900 mg/m3	OSHA P0
		TWA	100 ppm 600 mg/m3	NIOSH REL
		ST	150 ppm 900 mg/m3	NIOSH REL
benzyl acetate	140-11-4	TWA	10 ppm	ACGIH
orange oil	8008-57-9	TWA (mist - total)	10 mg/m3	NIOSH REL
		TWA (mist - respirable)	5 mg/m3	NIOSH REL
isopentyl acetate	123-92-2	TWA	100 ppm	OSHA Z-1

			525 mg/m3	
		TWA	100 ppm 525 mg/m3	OSHA P0
		TWA	100 ppm 525 mg/m3	NIOSH REL
		TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH

Personal protective equipment

Respiratory protection : Not required under normal use.

Hand protection

Remarks : not required under normal use

Eye protection : Not required under normal use.

Skin and body protection : Not required under normal use.

Protective measures : No special protective equipment required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colorless

Odor : pleasant

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : 68 °C

Evaporation rate : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : No data available

Relative density : 0.929 - 0.933

Partition coefficient: n-octanol/water : No data available

Autoignition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Flow time	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	:	No data available
Incompatible materials	:	No information available.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

Dipropylene glycol methyl ether:

Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg

benzyl acetate:

Acute oral toxicity	:	LD50 Oral (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 5,000 mg/kg

allyl hexanoate:

Acute oral toxicity	:	LD50 Oral (Rat, male and female): 280 mg/kg Method: OECD Test Guideline 401 GLP: no
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 820 mg/kg Method: OECD Test Guideline 402 GLP: no

cis-hex-3-en-1-ol:

Acute oral toxicity	:	LD50 Oral (Rat, male and female): 4,615 mg/kg Method: No information available. GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.99 mg/l
Method: OECD Test Guideline 436
GLP: yes

Linalool:

Acute oral toxicity : LD50 Oral (Mouse, male and female): 3,500 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute inhalation toxicity : LC50 (Mouse, male and female): 3.2 mg/l
Method: No information available.
GLP: no

Acute dermal toxicity : LD50 Dermal (Albino rabbit): 5,610 mg/kg
Method: OECD Test Guideline 402
GLP: no

2-phenylethanol:

Acute oral toxicity : LD50 Oral (Rat, male and female): 1,603 mg/kg

allyl 3-cyclohexylpropionate:

Acute oral toxicity : LD50 Oral (Rat, male and female): 380 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 Dermal (Rabbit): 1,600 mg/kg
Method: OECD Test Guideline 402
GLP: no

orange oil:

Acute oral toxicity : LD50 Oral (Rat, male): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit, female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: no

isopentyl acetate:

Acute oral toxicity : LD50 Oral (Rabbit): 7,400 mg/kg

Skin corrosion/irritation

Components:

Dipropylene glycol methyl ether:

Result: No skin irritation

2,6-dimethylheptan-2-ol:

Assessment: Irritating to skin.

2,4-dimethylcyclohex-3-ene-1-carbaldehyde:

Assessment: Irritating to skin.

benzyl acetate:

Species: Rabbit
Method: Directive 67/548/EEC, Annex V, B.4.
Result: No skin irritation
GLP: yes

allyl hexanoate:

Species: reconstructed human epidermis (RhE)
Method: EPISKIN Human Skin Model Test
Result: No skin irritation
GLP: yes

cis-hex-3-en-1-ol:

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

Linalool:

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

2-phenylethanol:

Species: Rabbit
Exposure time: 4 h
Assessment: No skin irritation
Result: No skin irritation
GLP: yes

allyl 3-cyclohexylpropionate:

Species: reconstructed human epidermis (RhE)
Method: OECD Test Guideline 439
Result: No skin irritation
GLP: yes

orange oil:

Species: Rabbit
Method: OECD Test Guideline 404

Result: Skin irritation
GLP: yes

Butanoic acid, 3-methyl-, ethyl ester:

Assessment: Irritating to skin.

isopentyl acetate:

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

Serious eye damage/eye irritation

Components:

Dipropylene glycol methyl ether:

Result: No eye irritation

2,6-dimethylheptan-2-ol:

Assessment: Irritating to eyes.

2,4-dimethylcyclohex-3-ene-1-carbaldehyde:

Assessment: Irritating to eyes.

benzyl acetate:

Species: Rabbit
Result: No eye irritation
Method: Directive 67/548/EEC, Annex V, B.5.
GLP: yes

allyl hexanoate:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
GLP: yes

cis-hex-3-en-1-ol:

Result: Eye irritation
Method: No information available.
GLP: yes

Linalool:

Species: Rabbit
Result: Eye irritation
Method: OECD Test Guideline 405
GLP: no

2-phenylethanol:

Species: Rabbit
Result: Eye irritation

allyl 3-cyclohexylpropionate:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
GLP: yes

orange oil:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
GLP: yes

isopentyl acetate:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
GLP: no

Respiratory or skin sensitization

Components:

Dipropylene glycol methyl ether:

Result: Did not cause sensitization on laboratory animals.

2,4-dimethylcyclohex-3-ene-1-carbaldehyde:

Assessment: The product is a skin sensitizer, sub-category 1B.

benzyl acetate:

Species: Guinea pig
Result: Causes sensitization.

allyl hexanoate:

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

cis-hex-3-en-1-ol:

Species: Mouse
Method: OECD Test Guideline 429

Result: Did not cause sensitization on laboratory animals.
GLP: yes

Linalool:

Assessment: The product is a skin sensitizer, sub-category 1B.
Result: May cause sensitization by skin contact.
Remarks: May cause sensitization of susceptible persons by skin contact.

2-phenylethanol:

Species: Mouse
Result: Does not cause skin sensitization.
GLP: yes

allyl 3-cyclohexylpropionate:

Test Type: Maximization Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: The product is a skin sensitizer, sub-category 1B.
GLP: yes

orange oil:

Species: Mouse
Method: OECD Test Guideline 429
Result: May cause sensitization by skin contact.
GLP: yes

isopentyl acetate:

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

Carcinogenicity

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Aspiration toxicity

Components:

orange oil:
May be fatal if swallowed and enters airways.

Further information

Product:
Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Dipropylene glycol methyl ether:

Toxicity to fish	:	LC50: > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50: > 1,000 mg/l Exposure time: 96 h
Toxicity to algae	:	NOEC: 969 mg/l Exposure time: 72 h

2,4-dimethylcyclohex-3-ene-1-carbaldehyde:

Ecotoxicology Assessment

Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.

benzyl acetate:

Toxicity to fish	:	LC50 (Oryzias latipes (Japanese medaka)): 4 mg/l Exposure time: 96 h Test Type: flow-through test Method: see user defined free text GLP: no
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 17 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae)): 110 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes

Toxicity to fish (Chronic toxicity)	:	1.33 mg/l Exposure time: 28 d

Ecotoxicology Assessment

Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.

allyl hexanoate:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 0.117 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)): 2 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)): > 4.6 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes

Ecotoxicology Assessment

Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.

cis-hex-3-en-1-ol:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 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)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 76 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes

Linalool:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 27.8 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 59 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)): 88.3 mg/l Exposure time: 96 h Test Type: static test Method: see user defined free text GLP: no

2-phenylethanol:

Toxicity to fish	:	LC50: > 215 mg/l Exposure time: 96 h NOEC: 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50: 287.17 mg/l Exposure time: 48 h
Toxicity to algae	:	EC50: 1,300 mg/l Exposure time: 72 h

allyl 3-cyclohexylpropionate:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 0.13 mg/l Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 3.8 mg/l Exposure time: 48 h Test Type: flow-through test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 3 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes

orange oil:

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.62 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: no
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 1.5 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 GLP: no

Ecotoxicology Assessment

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

isopentyl acetate:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 22 - 46 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 Straus (Water flea)): 42 mg/l Exposure time: 48 h Test Type: Immobilization
Toxicity to algae	:	ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes

Persistence and degradability

Components:

cis-hex-3-en-1-ol:

Biodegradability	:	Result: Readily biodegradable.

Linalool:

Biodegradability	:	Result: Readily biodegradable.

isopentyl acetate:

Biodegradability	:	Result: Readily biodegradable.

Bioaccumulative potential

Components:

Dipropylene glycol methyl ether:

Partition coefficient: n-octanol/water : log Pow: -0.064

benzyl acetate:

Bioaccumulation : Bioconcentration factor (BCF): 8

Partition coefficient: n-octanol/water : log Pow: 1.96

allyl hexanoate:

Partition coefficient: n-octanol/water : log Pow: 3.191

cis-hex-3-en-1-ol:

Partition coefficient: n-octanol/water : log Pow: 1

2-phenylethanol:

Partition coefficient: n-octanol/water : log Pow: 1.38

allyl 3-cyclohexylpropionate:

Partition coefficient: n-octanol/water : log Pow: 4.28

orange oil:

Partition coefficient: n-octanol/water : log Pow: 2.78 - 4.88

isopentyl acetate:

Partition coefficient: n-octanol/water : log Pow: 2.7

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	UN 1993
Proper shipping name	:	FLAMMABLE LIQUID, N.O.S.
Class	:	3
Packing group	:	II
Labels	:	3

IATA-DGR

UN/ID No.	:	UN 1993
Proper shipping name	:	Flammable liquid, n.o.s.
Class	:	3
Packing group	:	II
Labels	:	Class 3 - Flammable liquids
Packing instruction (cargo aircraft)	:	364

IMDG-Code

UN number	:	UN 1993
Proper shipping name	:	FLAMMABLE LIQUID, N.O.S.
Class	:	3
Packing group	:	II
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number	:	UN 1993
Proper shipping name	:	FLAMMABLE LIQUIDS, N.O.S.

Class	:	3
Packing group	:	II
Labels	:	FLAMMABLE LIQUID
ERG Code	:	128
Marine pollutant	:	no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
	123-92-2	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

isopentyl acetate 123-92-2 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

isopentyl acetate 123-92-2 %

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Dipropylene glycol methyl ether	34590-94-8
isopentyl acetate	123-92-2

Pennsylvania Right To Know

Dipropylene glycol methyl ether	34590-94-8
hexyl acetate	142-92-7
2,6-dimethylheptan-2-ol	13254-34-7
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6
benzyl acetate	140-11-4
allyl hexanoate	123-68-2
cis-hex-3-en-1-ol	928-96-1

(Z)-hex-3-enyl acetate	3681-71-8
1-phenylethyl acetate	93-92-5
Linalool	78-70-6
2-phenylethanol	60-12-8
allyl 3-cyclohexylpropionate	2705-87-5
orange oil	8008-57-9
undecan-4-olide	104-67-6
isopentyl acetate	123-92-2

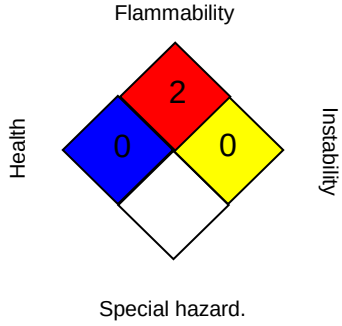
SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

Further information

NFPA:



HMIS III:

HEALTH	**0**
FLAMMABILITY	**2**
PHYSICAL HAZARD	**0**

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 02-28-2020

The information provided in this Material 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.

US / Z8