Trade name : Revision date :

Print date :

DIMETHYL HYDROQUINONE

23.03.2017

12-4-2017



4.0.0 (3.0.0)

Version (Revision) :

SEC	TION 1: Identif	fication of the substance/mixture and of the company/ undertaking
1.1	Product identi	For
1.1		
		QUINONE (W00358)
1.2		tified uses of the substance or mixture and uses advised against
	Relevant iden	
		ices, Non alcoholic perfumes, Attars for Personal and / or industrial application.
	Uses advised	-
	Not intended for o	•
L.3		supplier of the safety data sheet
	•••	nufacturer/importer/only representative/downstream
	user/distribu	
	PFW Aroma Ingre	dients B.V.
	Street : Veem	мед 29-31
	Postal code/c	city: NL - 3771 MT Barneveld
	Telephone :	+31 342 407 700
	Telefax : +31	342 407 720
	Information of	contact : regulatory.affairs@keva.co.in
.4		ephone number
	+31 342 407 793	
	USA: +1 800 222 1	222
SEC	TION 2: Hazard	Is identification
2.1		of the substance or mixture
		according to the Globally Harmonised System of Classification and
	-	Chemicals (GHS)
	•	H402 - Hazardous to the aquatic environment : Category 3 ; Harmful to aquatic life.
		03 - Acute toxicity (oral) : Category 5 ; May be harmful if swallowed.
2.2	Label element	-
		ording to the Globally Harmonised System of Classification and
	-	Chemicals (GHS)
	Signal word	
	Warning	
	Hazard stateme	
	H303 H316	May be harmful if swallowed. Causes mild skin irritation.
	H402	Harmful to aquatic life.
	Precautionary s	•
	P273	Avoid release to the environment.
	5212	

P332+P313 P501

2.3 Other hazards

P312

None

Dispose of contents/container to a chemical waste treatment facility or recycling plant.

Call a POISON CENTER/doctor if you feel unwell.

If skin irritation occurs: Get medical advice/attention.



Trade name : Revision date : Print date : DIMETHYL HYDROQUINONE 23.03.2017 12-4-2017

Version (Revision) :

4.0.0 (3.0.0)

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

None

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Remove victim out of the danger area. Put victim at rest, cover with a blanket and keep warm. Do not leave affected person unattended. If unconscious place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact

Wash immediately with: Water Do not wash with: Solvents/Thinner

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth immediately and drink plenty of water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

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

4.3 Indication of any immediate medical attention and special treatment needed None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Extinguishing powder Water mist

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide (CO).

5.3 Advice for firefighters

Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Page : 2 / 9



Trade name :	DIMETHYL HYDROQUINONE		
Revision date :	23.03.2017	Version (Revision) :	4.0.0 (3.0.0)
Print date :	12-4-2017		

Do not breathe dust. See protective measures under point 7 and 8.

6.2 Environmental precautions

In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Wet clean or vacuum up solids. Avoid dust formation. Collect in closed and suitable containers for disposal.

6.4 Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. All work processes must always be designed so that the following is as low as possible: Provide earthing of containers, equipment, pumps and ventilation facilities. Wear personal protection equipment (refer to section 8).

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Never use pressure to empty container.

Hints on joint storage

Keep away from oxidising agent , acid and alkali .

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

To date, no national critical limit values exist.

8.2 Exposure controls

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Personal protection equipment

Eye/face protection

Eye glasses

Skin protection

Hand protection Hand protection is not required Suitable material : Butyl caoutchouc (butyl rubber) Breakthrough time (maximum wearing time) : >480 min. Thickness of the glove material : 1.00 mm. Recommended glove articles : Butyl Plus/R0,5 Body protection Overall

Overall

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values insufficient ventilation insufficient exhaust Handling larger quantities. Container device with compressed air (DIN EN 137) / Filtering device (full mask or mouthpiece) with filter: Filter types:A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m3 (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m3



Trade name :	DIMETHYL HYDROQUINONE		
Revision date :	23.03.2017	Version (Revision) :	4.0.0 (3.0.0)
Print date :	12-4-2017		

(0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m3 (1.0 % by vol.)

Environmental exposure controls

Send to a hazardous waste incinerator facility under observation of official regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Odour threshold in air : No data available

Safety relevant basis data	a				
Approved packaging		Gl	ass/RDL/Aluminium		
Physical state :			solid		
Colour :			white		
Odour :			sweetish green		
Melting point/melting range :			56	°C	
Melting point/melting range :	(1013 hPa)		56 - 60	°C	
Initial boiling point and boiling range :			192,3	°C	
Initial boiling point and boiling range :	(1013 hPa)		192,3	°C	
Decomposition temperature :			No data available		
Freezing point :			No data available		
Flash point (Closed Cup) :				°C	DIN EN 51578
Auto-ignition temperature :			no data available		
Evaporation rate :			slowly evaporating		
Lower explosion limit :			No data available		
Upper explosion limit :			No data available		
Explosive properties :			none		
Vapour pressure :	(50 °C)	approx.	1,2	hPa	
Vapour pressure :	(20 °C)	approx.	0,07	hPa	
Surface tension (20°C)	(20 °C)		not applicable		
Relative density (water = 1) :	(20 °C)		not applicable		
Water solubility :			moderately soluble (100-1000 mg/l)		
Water solubility :	(20 °C)		0,708	g/l	
Solubility in water :	(25 °C)	approx.	1,4	g/l	
pH value :			No data available		
Log Pow :			2,2		
Viscosity :	(20 °C)		No data available		
Odour threshold :			No data available		
Vapour density (air = 1) :	(1013 hPa / 20 °C)	approx.	No data available		
Oxidising properties :			No data available		
Refractive Index	no data available				

9.2 **Other information**

Justification for data waiving. pH value: Testing can be waived because substance is a solid. Viscosity: Testing can be waived because substance is a solid.

SECTION 10: Stability and reactivity



Trade name :	DIMETHYL HYDROQUINONE		
Revision date :	23.03.2017	Version (Revision) :	4.0.0 (3.0.0)
Print date :	12-4-2017		

10.1 Reactivity

No information available.

10.2 Chemical stability No information available.

10.3 Possibility of hazardous reactions No information available.

10.4 Conditions to avoid

No information available. **10.5 Incompatible materials**

Exothermic reaction with: oxidising agent strong acid strong alkali 10.6 Hazardous decomposition products

Decomposition with: Carbon dioxide. Carbon monoxide (CO).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity	
Parameter :	LD50 (1,4-DIMETHOXYBENZENE; CAS No.: 150-78-7)
Exposure route :	Oral
Species :	Rat
Effective dose :	3600 mg/kg
Source :	NLM_CIP
Parameter :	LD50 (1,4-DIMETHOXYBENZENE; CAS No.: 150-78-7)
Exposure route :	Oral
Species :	Rat
Effective dose :	3600 mg/kg
Source :	NLM_CIP
Acute dermal toxicity	
Parameter :	LD50 (1,4-DIMETHOXYBENZENE; CAS No.: 150-78-7)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 5000 mg/kg
Source :	NLM_CIP
Parameter :	LD50 (1,4-DIMETHOXYBENZENE; CAS No.: 150-78-7)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 5000 mg/kg
Source :	NLM_CIP
Irritant and corrosive effe	ects
Primary irritation to the skin	
Parameter :	Irritation of the skin (1,4-DIMETHOXYBENZENE; CAS No.: 150-78-7)
Species :	Albino rabbit

in-vivo

No irritation

Species : Parameter : Result : Method : Source : Irritation to eyes

Page : 5 / 9

European Chemicals Agency (ECHA)

OECD 404 Acute Dermal Irritation/Corrosion



Trade name : Revision date : Print date :	DIMETHYL HY 23.03.2017 12-4-2017	YDROQUINONE Version (Revision): 4.0.0 (3.0.0
Parameter :		Irritation of the eyes (1,4-DIMETHOXYBENZENE ; CAS No. : 150-78-7)
Species :		Albino rabbit
Parameter :		in-vivo
Result :		No irritation
Method :		OECD 405 Acute eye irritation/corrosion
Source :		European Chemicals Agency (ECHA)
Sensitisation		
In case of skin con	tact	
Parameter :		Skin sensitisation (1,4-DIMETHOXYBENZENE; CAS No.: 150-78-7)
Species :		Guinea pig
Parameter :		in-vivo
Result :		not sensitising
Method :		Draize
Source :		European Chemicals Agency (ECHA)
CMR effects (ca	rcinogenia	city, mutagenicity and toxicity for reproduction)
-	-	ity mutagementy and toxicity for reproduction)
Germ cell mutager	-	
In vitro mutageni	city	
Parameter :		Gene-mutations microrganisms (1,4-DIMETHOXYBENZENE ; CAS No. : 150-78-7)
Exposure route :		in-vitro
Species :		Salmonella typhimurium
Test result :		Negative (with metabolic activation). Negative (without metabolic activation).
Method :		OECD 471: Ames test
Source :		European Chemicals Agency (ECHA)
In vivo mutageni	city	
Parameter :		Chromosomal aberrations (1,4-DIMETHOXYBENZENE ; CAS No. : 150-78-7)
Exposure route :		In Vivo Mammalian Erythrocyte Micronucleus Test
Species :		Mouse
Test result :		Negative.
Method :		OECD 474 in-vivo Mammalian Erythrocyte Micronucleus Test
Source :		European Chemicals Agency (ECHA)
SECTION 12: Ecologi	cal informa	ation
-		
12.1 Toxicity		
Aquatic toxicity		
Acute (short-term)) fish toxicity	1
Parameter :	•	LC50(1,4-DIMETHOXYBENZENE;CAS No.: 150-78-7)
Species :		Brachydanio rerio (zebra-fish)
Evaluation parameter	er :	Acute (short-term) fish toxicity
Effective dose :		127 mg/l
Exposure time :		96 h
Method :		OECD 203 Acute toxicity for fish

Source : European Chemicals Agency (ECHA)

Chronic (long-term) fish toxicity

childrift (long-term) rish toxicity				
Parameter :	NOEC (1,4-DIMETHOXYBENZENE; CAS No.: 150-78-7)			
Species :	Pimephales promelas (fathead minnow)			
Evaluation parameter :	Chronic (long-term) fish toxicity			
Effective dose :	16,6 mg/l			
Exposure time :	33 days			
Source :	European Chemicals Agency (ECHA)			
Acute (chart-term) daphnia toxicity				

Acute (short-term) daphnia toxicity



Daphnia magna (Big wat Acute (short-term) daph 52 mg/l COUNCIL REGULATION (European Chemicals Age toxicity EC50 (1,4-DIMETHOXYE Pseudokirchneriella subci Acute (short-term) algae 50,5 mg/l 72 h OECD 201 Freshwater alg European Chemicals Age adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	nia toxicity EC) No 440/2008, C.2 ncy (ECHA) BENZENE ; CAS No. : 150-78-7) apitata toxicity gae and cyanobacteria, growth inhibition test	4.0.0 (3.0.0
3.2017 -2017 -2017 EC50 (1,4-DIMETHOXYE Daphnia magna (Big wat Acute (short-term) daphi 52 mg/l COUNCIL REGULATION (European Chemicals Age e toxicity EC50 (1,4-DIMETHOXYE Pseudokirchneriella subci Acute (short-term) algae 50,5 mg/l 72 h OECD 201 Freshwater alg European Chemicals Age adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	ENZENE ; CAS No. : 150-78-7) er flea) nia toxicity EC) No 440/2008, C.2 ncy (ECHA) ENZENE ; CAS No. : 150-78-7) apitata toxicity gae and cyanobacteria, growth inhibition test ncy (ECHA)	4.0.0 (3.0.0
EC50 (1,4-DIMETHOXYE Daphnia magna (Big wat Acute (short-term) daphn 52 mg/l COUNCIL REGULATION (European Chemicals Age EC50 (1,4-DIMETHOXYE Pseudokirchneriella subc Acute (short-term) algae 50,5 mg/l 72 h OECD 201 Freshwater alg European Chemicals Age adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	ENZENE ; CAS No. : 150-78-7) er flea) nia toxicity EC) No 440/2008, C.2 ncy (ECHA) ENZENE ; CAS No. : 150-78-7) apitata toxicity gae and cyanobacteria, growth inhibition test ncy (ECHA)	
Daphnia magna (Big wat Acute (short-term) daph 52 mg/l COUNCIL REGULATION (European Chemicals Age toxicity EC50 (1,4-DIMETHOXYE Pseudokirchneriella subci Acute (short-term) algae 50,5 mg/l 72 h OECD 201 Freshwater alg European Chemicals Age adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	er flea) nia toxicity EC) No 440/2008, C.2 ncy (ECHA) BENZENE ; CAS No. : 150-78-7) apitata toxicity gae and cyanobacteria, growth inhibition test ncy (ECHA)	
Daphnia magna (Big wat Acute (short-term) daph 52 mg/l COUNCIL REGULATION (European Chemicals Age toxicity EC50 (1,4-DIMETHOXYE Pseudokirchneriella subci Acute (short-term) algae 50,5 mg/l 72 h OECD 201 Freshwater alg European Chemicals Age adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	er flea) nia toxicity EC) No 440/2008, C.2 ncy (ECHA) BENZENE ; CAS No. : 150-78-7) apitata toxicity gae and cyanobacteria, growth inhibition test ncy (ECHA)	
Acute (short-term) daphr 52 mg/l COUNCIL REGULATION (European Chemicals Age e toxicity EC50 (1,4-DIMETHOXYE Pseudokirchneriella subci Acute (short-term) algae 50,5 mg/l 72 h OECD 201 Freshwater alg European Chemicals Age adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	nia toxicity EC) No 440/2008, C.2 ncy (ECHA) BENZENE ; CAS No. : 150-78-7) apitata toxicity gae and cyanobacteria, growth inhibition test ncy (ECHA)	
52 mg/l COUNCIL REGULATION (European Chemicals Age e toxicity EC50 (1,4-DIMETHOXYE Pseudokirchneriella subca Acute (short-term) algae 50,5 mg/l 72 h OECD 201 Freshwater alg European Chemicals Age adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	EC) No 440/2008, C.2 ncy (ECHA) BENZENE ; CAS No. : 150-78-7) apitata toxicity gae and cyanobacteria, growth inhibition test ncy (ECHA)	
COUNCIL REGULATION (European Chemicals Age EC50 (1,4-DIMETHOXYE Pseudokirchneriella subci Acute (short-term) algae 50,5 mg/l 72 h OECD 201 Freshwater alg European Chemicals Age adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	ncy (ECHA) BENZENE ; CAS No. : 150-78-7) apitata toxicity gae and cyanobacteria, growth inhibition test ncy (ECHA)	
European Chemicals Age e toxicity EC50 (1,4-DIMETHOXYE Pseudokirchneriella subca Acute (short-term) algae 50,5 mg/l 72 h OECD 201 Freshwater alg European Chemicals Age adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	ncy (ECHA) BENZENE ; CAS No. : 150-78-7) apitata toxicity gae and cyanobacteria, growth inhibition test ncy (ECHA)	
e toxicity EC50 (1,4-DIMETHOXYE Pseudokirchneriella subci Acute (short-term) algae 50,5 mg/l 72 h OECD 201 Freshwater alg European Chemicals Age adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	BENZENE ; CAS No. : 150-78-7) apitata toxicity gae and cyanobacteria, growth inhibition test ncy (ECHA)	
Pseudokirchneriella subc. Acute (short-term) algae 50,5 mg/l 72 h OECD 201 Freshwater alg European Chemicals Age adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	apitata toxicity gae and cyanobacteria, growth inhibition test ncy (ECHA)	
Acute (short-term) algae 50,5 mg/l 72 h OECD 201 Freshwater alg European Chemicals Age adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	toxicity gae and cyanobacteria, growth inhibition test ncy (ECHA)	
50,5 mg/l 72 h OECD 201 Freshwater all European Chemicals Age adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	gae and cyanobacteria, growth inhibition test ncy (ECHA)	
72 h OECD 201 Freshwater alg European Chemicals Age adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	ncy (ECHA)	
OECD 201 Freshwater alg European Chemicals Age adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	ncy (ECHA)	
European Chemicals Age adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	ncy (ECHA)	
adability Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days		
Biodegradation (1,4-DIME Degree of elimination Aerobic 81 % 28 days	THOXYBENZENE ; CAS No. : 150-78-7)	
Degree of elimination Aerobic 81 % 28 days	THOXYBENZENE ; CAS No. : 150-78-7)	
Degree of elimination Aerobic 81 % 28 days	THOXYBENZENE ; CAS No. : 150-78-7)	
Aerobic 81 % 28 days		
81 % 28 days		
28 days		
,		
Readily biodegradable (ac		
OECD 301F Manometric re		
European Chemicals Agen	JY (ECHA)	
ential		
r partition coefficient accumulation	n in organisms is not expected.	
PvB assessment		
t the PBT/vPvB criteria of REACH	, Annex XIII.	
6		
onical information		
ogical information		
siderations		
ncinerator facility under observati	on of official regulations.	
formation		
of these transport regulations.		
ame		
	ogical information nsiderations thods	ogical information insiderations thods incinerator facility under observation of official regulations. formation of these transport regulations. ame of these transport regulations. ss(es)



Trade name :	DIMETHYL HYDROQUINONE		
Revision date :	23.03.2017	Version (Revision) :	4.0.0 (3.0.0)
Print date :	12-4-2017		

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

National regulations

Water hazard class (WGK)

Class : slightly water pollutant according VwVwS

Other regulations, restrictions and prohibition regulations which apply

U.S. - Section 8(b) Inventory (TSCA) Present

Inventory - Japan - Existing and New Chemical Substances (ENCS) Present (3)-582

Inventory - China - Inventory of Existing Chemical Substances (IECSC) Present 06651

Inventory - Taiwan - Taiwan Chemical Substance Inventory (TCSI) Present

Inventory - Korea - Existing Chemicals Inventory (KECI/KECL) - Annex 1 Present KE-11036

Inventory - Philippines - Inventory of Chemicals and Chemical Substances (PICCS) Present

Inventory - Australia - Inventory of Chemical Substances (AICS) Present

Inventory - New Zealand - Inventory of Chemicals (NZIoC) Present

EU - Database of Flavouring Substances (1565/2000/EC) - FLAVIS Numbers 4.034 Chemical Group Number 26 Council of Europe - Flavouring Substances - Category of Flavouring Substances Category A Flavouring Substance Joint FAO/WHO Expert Committee on Food Additives (JECFA) - Flavouring Agents Specifications Index Numbers Full FEMA (Flavor and Extract Manufacturers Association) - FEMA GRAS Numbers 2386

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements · 03. Substances

16.2 Abbreviations and acronyms

a.i. = Active ingredient; ACGIH = American Conference of Governmental Industrial Hygienists (US); ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road; AFFF = Aqueous Film Forming Foam; AICS = Australian Inventory of Chemical Substances; AISE = International Association for Soaps, Detergents and Maintenance Products (joint project of AISE and CEFIC); AOAC = AOAC International (formerly Association of Official Analytical Chemists); aq. = Aqueous; Asia-PAC = Asia Pacific; ASTM = American Society of Testing and Materials (US); atm = Atmosphere(s); B.V. = Beperkt Vennootschap (LTD = Limited); BCF = Bioconcentration Factor; bp = Boiling point at stated pressure; bw = Body weight; ca = (Circa) about; CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society); CEFIC = European Chemical Industry Council (established 1972); CEPA = Canadian Environmental Protection Act (CAN); CEPA = Canadian Environmental Protection Act (Canada); CIPAC = Collaborative International Pesticides Analytical Council; CLP = REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.; CoE = Council of Europe (EU); Conc = Concentration; cP = CentiPoise; CSNN = Chemical Substance Nomination & Notification (Taiwan); cSt = Centistokes; d = Day(s); DIN = Deutsches Institut für Normung e.V.; DNEL = Derived No-Effect Level; DSL = Domestic Substances List; DT50 = Time for 50% loss; half-life; EbC50 = Median effective concentration (biomass, e.g. of algae); EC = European Community; European Commission; EC50 = Median effective concentration; ECL = Existing Chemicals List (Korea); EINECS = European Inventory of Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number); ELINCS = European List of Notified (New) Chemicals; ENCS = Existing and New Chemical Substances Inventory (Japan); ErC50 = Median effective



Trade name :	DIMETHYL HYDROQUINONE		
Revision date :	23.03.2017	Version (Revision) :	4.0.0 (3.0.0)
Print date :	12-4-2017		

concentration (growth rate, e.g. of algae); EU = European Union; EWC = European Waste Catalogue; FAO = Food and Agriculture Organization (United Nations); FEMA = Flavor & Extract Manufacturers Association (USA); FLAVIS = Flavour Information System (EU); GIFAP = Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques (now CropLife International); GRAS = Generally Recognized As Safe (USA); h = Hour(s); hPa = HectoPascal (unit of pressure); IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IC50 = Concentration that produces 50% inhibition; IECSC = Inventory of Existing Chemical Substances (China); IMDG Code = International Maritime Dangerous Goods Code; IMO = International Maritime Organization; ISO = International Organization for Standardization; IUCLID = International Uniform Chemical Information Database; IUPAC = International Union of Pure and Applied Chemistry; IVIS = In-Vitro Irritancy Score; JECFA = Joint Expert Committee on Food Additives (United Nations); kg = Kilogram; Kow = Distribution coefficient between n-octanol and water; kPa = KiloPascal (unit of pressure); LC50 = Concentration required to kill 50% of test organisms; LD50 = Dose required to kill 50% of test organisms; LEL = Lower Explosive Limit/Lower Explosion Limit; LOAEL = Lowest observed adverse effect level; LVE = Low Volume Exemption; mg = Milligram; min = Minute(s); ml = Milliliter; mmHg = Pressure equivalent to 1 mm of mercury (133.3 Pa); mp = Melting point; MRL = Maximum Residue Limit; MSDS = Material Safety Data Sheet; n.o.s. = Not Otherwise Specified; NDSL = Non-Domestic Substances List; NIOSH = National Institute for Occupational Safety and Health (US); NOAEL = No Observed Adverse Effect Level; NOEC = No observed effect concentration; NOEL = No Observable Effect Level; NOx = Oxides of Nitrogen; NZIOC = New Zealand Inventory of Chemicals; OECD = Organization for Economic Cooperation and Development; OEL = Occupational Exposure Limits; Pa = Pascal (unit of pressure); PBT = Persistent, Bioaccumulative or Toxic; pH = -log10 hydrogen ion concentration; PICCS = Philippine Inventory of Chemicals and Chemical Substances; pKa = -loq10 acid dissociation constant; PNEC = Predicted No Effect Concentration; POPs = Persistent Organic Pollutants; ppb = Parts per billion; PPE = Personal Protection Equipment; ppm = Parts per million; ppt = Parts per trillion; PVC = Polyvinyl Chloride; QSAR = Quantitative Structure-Activity Relationship; REACH = Registration, Evaluation and Authorization of CHemicals (EU, see NCP); SI = International System of Units; STEL = Short-Term Exposure Limit; tech. = Technical grade; TSCA = Toxic Substances Control Act (US); TSCA = Toxic Substances Control Act (USA); TWA = Time-Weighted Average; UN = United Nations; vPvB = Very Persistent and Very Bioacccumulative; VwVwS = Verwaltungsvorschrift wassergefährdender Stoffe; WHO = World Health Organization = OMS; y = Year(s);

16.3 Key literature references and sources for data

None

16.5 Relevant R-, H, and EUH-phrases of all the individual ingredients

	 -
H303	May be harmful if swallowed.
H402	Harmful to aquatic life.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.