

Praepagen TQPV-IPA

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Substance key: 000000603933

Revision Date: 16.05.2019

Version : 1 - 3 / RI

Date of printing : 28.02.2023

1. PRODUCT AND COMPANY IDENTIFICATION**Trade name**


Praepagen TQPV-IPA

Material number: 289340**Substance name:** Palm Stearin Fatty Acid, reaction products with triethanolamine, di-Me sulfate-quaternized in isopropanol**Recommended use:**Industry sector : Industrial & Institutional Cleaning
Type of use : Raw material for the production of soft wash rinsing agents**Supplier name/address/telephone no.:**

Clariant Produkte (Deutschland) GmbH

Frankfurt am Main 65926, Germany
Telephone : +49 69 305 18000**Information about the substance/preparation**Product Safety : BU Care Chemicals
Product Stewardship
e-mail: SDS.Europe@clariant.com**Emergency telephone number:** +65 3158 1074**2. HAZARDS IDENTIFICATION****GHS Classification**

Skin corrosion/irritation : Category 2

GHS label elementsHazard pictograms : 

Signal word : Warning

Hazard statements : H315 Causes skin irritation.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of water.
P332 + P313 If skin irritation occurs: Get medical advice/
attention.
P362 + P364 Take off contaminated clothing and wash it before
reuse.

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Other hazards which do not result in classification

Flammable solvent vapours may collect in the vapour spaces of closed containers. Keep away from fire and other sources of ignition.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Propan-2-ol	67-63-0	>= 10 -< 30

4. FIRST AID MEASURES

- General advice : Get medical advice/ attention if you feel unwell.
Remove/Take off immediately all contaminated clothing.
- If inhaled : Remove to fresh air.
Get medical attention if symptoms occur.
- In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label.
- Most important symptoms and effects, both acute and delayed : No symptoms known currently.
No hazards known at this time.
- Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray jet
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry powder
- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
Sulphur dioxide (SO₂)
- Specific extinguishing : Wear suitable protective equipment.

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methods

Special protective equipment : Self-contained breathing apparatus for firefighters

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.
Wear suitable protective clothing.
Keep away sources of ignition.
- Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Traces of flammable substances can collect in the vapour space of closed systems, therefore keep sources of ignition away.
Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations.
- Advice on safe handling : Handle and open container with care.
Provide adequate ventilation.
- Further information on storage conditions : - frost-sensitive - if the product becomes turbid as a result of exposure to low temperatures, warm it slowly to approx. 50°C and stir it. Before using the product, ensure that it is completely homogeneous.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propan-2-ol	67-63-0	PSD	500 ppm 1.230 mg/m ³	ID OEL
		NAB	400 ppm 983 mg/m ³	ID OEL
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH

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Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of workweek	40 mg/l	ACGIH BEI

Engineering measures : Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Respiratory protection : Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure
 Full mask to standard DIN EN 136
 Filter A (organic gases and vapours) to standard DIN EN 141
 Filter class 2
 The use of filter apparatus presupposes that the environment atmosphere contains at least 17% oxygen by volume, and does not exceed the maximum gas concentration, usually 0.5% by volume. Relevant guidelines to be considered include EN 136/141/143/371/372 as well as other national regulations.

Hand protection
 Remarks

: Long-term exposure Impervious butyl rubber gloves Minimum thickness (glove): not determined The data about break through time/strength of material is not valid for undissolved solids/dust.

For short-term exposure (splash protection): Nitrile rubber gloves. Minimum thickness (glove): not determined The data about break through time/strength of material is not valid for undissolved solids/dust.

These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

Eye protection : Safety glasses

Protective measures : Avoid contact with skin and eyes.
 Do not inhale vapours

Hygiene measures : Wash hands before breaks and at the end of workday.
 Use protective skin cream before handling the product.
 Take off immediately all contaminated clothing and wash it before reuse.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Wax like
Colour	:	yellow
Odour	:	characteristic
Odour Threshold	:	not tested.
pH	:	3,6 (25 °C) Concentration: 10 g/l Method: ASTM E 70 By analogy with a product of similar composition
Melting point	:	43 °C Method: DSC
Boiling point	:	> 100 °C Method: OECD Test Guideline 103 By analogy with a product of similar composition
Flash point	:	Not applicable The lower explosion point was determined to be approximately 36 °C.
Evaporation rate	:	Not applicable
Self-ignition	:	The product melts below 160 °C. Therefore, no further testing of self-heating properties is required. The substance or mixture is not classified as pyrophoric.
Burning number	:	3 Local combustion without spreading
Upper explosion limit / upper flammability limit	:	12 %(V) Data relate to solvent
Lower explosion limit / Lower flammability limit	:	2 %(V) Data relate to solvent
Vapour pressure	:	42 mbar (20 °C) The data refer to both the solvent and the solvent mixture
Relative vapour density	:	Not applicable
Density	:	0,966 g/cm ³ (60 °C) Method: DIN EN ISO 12185
Bulk density	:	not tested.
Solubility(ies) Water solubility	:	miscible

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Solubility in other solvents	:	Description: soluble in isopropanol
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	> 250 °C The substance or mixture is not classified self-reactive. By analogy with a product of similar composition
Viscosity		
Viscosity, dynamic	:	ca. 161 mPa.s (60 °C) Method: DIN 53015
Viscosity, kinematic	:	ca. 166 mm ² /s (60 °C) Method: calculated
Explosive properties	:	There are no chemical groups associated with explosive properties present in the molecule.
Oxidizing properties	:	There are no chemical groups associated with oxidising properties present in the molecule.
Minimum ignition energy	:	not tested.
Particle size	:	not tested.

10. STABILITY AND REACTIVITY

Reactivity	:	See section 10.3. "Possibility of hazardous reactions"
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	None known.
Incompatible materials	:	not known
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**

Acute oral toxicity	:	LD50 (Rat, male and female): 4.480 mg/kg Method: OECD Test Guideline 401 Remarks: The values mentioned are those of the active
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ingredient.
By analogy with a product of similar composition

Acute inhalation toxicity : Remarks: not tested.

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
Remarks: The values mentioned are those of the active ingredient.
By analogy with a product of similar composition

Components:**Propan-2-ol:**

Acute oral toxicity : LD50 (Rat, no data available): 5.840 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): > 25 mg/l, > 10000 ppm
Exposure time: 6 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, no data available): 13.900 mg/kg
Method: OECD Test Guideline 402
GLP: no

Skin corrosion/irritation**Product:**

Species : Rabbit
Method : OECD Test Guideline 404
Result : Irritating to skin.
Remarks : By analogy with a product of similar composition

Components:**Propan-2-ol:**

Species : Rabbit
Exposure time : 4 h
Method : Other
Result : No skin irritation
GLP : no

Serious eye damage/eye irritation**Product:**

Species : rabbit eye
Result : No eye irritation
Remarks : By analogy with a product of similar composition

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Components:**Propan-2-ol:**

Species : Rabbit
Result : Irritating to eyes.
Method : OECD Test Guideline 405
GLP : no

Respiratory or skin sensitisation**Product:**

Species : Guinea pig
Method : OECD Test Guideline 406
Result : non-sensitizing
Remarks : By analogy with a product of similar composition

Components:**Propan-2-ol:**

Test Type : Buehler Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.
GLP : yes

Germ cell mutagenicity**Product:**

Genotoxicity in vitro : Test Type: Ames test
Method: OECD Test Guideline 471
Result: Negative with and without metabolic activation
Remarks: Data corresponds to that of the active component
By analogy with a product of similar composition

Test Type: HGPRT assay
Test system: V79 cells (embryonic lung fibroblasts) of the Chinese hamster
Method: OECD Test Guideline 476
Result: Negative with and without metabolic activation
Remarks: Data corresponds to that of the active component
By analogy with a product of similar composition

Test Type: Chromosome Aberration Test
Test system: V79 cells (embryonic lung fibroblasts) of the Chinese hamster
Method: OECD Test Guideline 473
Result: Negative with and without metabolic activation
Remarks: Data corresponds to that of the active component
By analogy with a product of similar composition

Genotoxicity in vivo : Test Type: Micronucleus test

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Species: Mouse (male and female)
 Application Route: oral (gavage)
 Method: OECD Test Guideline 474
 Result: negative

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests., Information refers to the main component.

Components:

Propan-2-ol:

Genotoxicity in vitro : Test Type: In vitro gene mutation study in mammalian cells
 Test system: Chinese hamster ovary cells
 Concentration: 500 - 5000 µg/ml
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 476
 Result: negative
 GLP: yes

Test Type: Ames test
 Test system: Salmonella typhimurium
 Concentration: 100 - 10000 µg/plate
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative
 GLP: no

Genotoxicity in vivo : Test Type: Micronucleus test
 Species: Mouse (male and female)
 Strain: ICR
 Cell type: Bone marrow
 Application Route: Intraperitoneal injection
 Exposure time: Single exposure
 Dose: 350-1173-2500-3500 mg/kg
 Method: OECD Test Guideline 474
 Result: negative
 GLP: yes

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

Carcinogenicity

Product:

Carcinogenicity - Assessment : No information available.

Components:

Propan-2-ol:

Species : Rat, male and female
 Application Route : Inhalation

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Exposure time : 104 w
 Dose : 200 - 2500 - 5000 ppm
 Group : yes
 Frequency of Treatment : 6 hours/day, 5 days/week
 : ca. 12,29 mg/l
 Method : OECD Test Guideline 451
 GLP : yes

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

Reproductive toxicity**Product:**

Reproductive toxicity - Assessment : No information available.

No information available.

Components:**Propan-2-ol:**

Effects on fertility : Test Type: Fertility/early embryonic development
 Species: Rat, male and female
 Strain: wistar
 Application Route: Drinking water
 Dose: 0,5 - 1 - 2 %
 General Toxicity - Parent: NOAEL: 853 mg/kg body weight
 Method: OECD Test Guideline 415
 GLP: yes

Test Type: Two-generation study
 Species: Rat, male and female
 Strain: Sprague-Dawley
 Application Route: oral (gavage)
 Dose: 100 - 500 - 1000 mg/kg
 General Toxicity - Parent: NOAEL: 500 mg/kg body weight
 General Toxicity F1: NOAEL: 500 mg/kg body weight
 General Toxicity F2: NOAEL: 500 mg/kg body weight
 Method: OECD Test Guideline 416
 GLP: yes

Effects on foetal development : Test Type: Pre-natal
 Species: Rat
 Strain: wistar
 Application Route: Drinking water
 Dose: 0,5 - 1,25 - 2,5 %
 Duration of Single Treatment: 10 d
 General Toxicity Maternal: NOAEL: 596 mg/kg body weight
 Developmental Toxicity: NOAEL: 596 mg/kg body weight
 Method: OECD Test Guideline 414
 GLP: yes

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Test Type: Pre-natal
 Species: Rat
 Strain: Sprague-Dawley
 Application Route: oral (gavage)
 Dose: 400 - 800 - 1200 mg/kg
 Duration of Single Treatment: 9 d
 General Toxicity Maternal: NOAEL: 400 mg/kg body weight
 Teratogenicity: NOAEL: 400 mg/kg body weight
 Developmental Toxicity: NOAEL: 400 mg/kg body weight
 Method: OECD Test Guideline 414
 GLP: yes

Reproductive toxicity - Assessment : No reproductive toxicity to be expected.
 No teratogenic effects to be expected.

STOT - single exposure

Product:

Remarks : not tested.

Components:

Propan-2-ol:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

Product:

Remarks : not tested.

Components:

Propan-2-ol:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Species : Rat, male and female
 NOAEL : 300 mg/kg
 Application Route : Drinking water
 Method : OECD Test Guideline 408
 Remarks : Information refers to the main component.
 By analogy with a product of similar composition

Species : Rat, male and female
 NOAEL : 1.000 mg/kg
 Application Route : oral (gavage)
 Method : OECD Test Guideline 407
 Remarks : Information refers to the main component.
 By analogy with a product of similar composition

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Components:**Propan-2-ol:**

Species : Rat, male and female
NOAEL : 12,5 mg/l
Application Route : Inhalation
Test atmosphere : vapour
Exposure time : 2 a
Number of exposures : 6 hours/day, 5 days/week
Dose : 500 - 2500 - 5000 ppm
Group : yes
Method : Other
GLP : yes

Aspiration toxicity**Components:****Propan-2-ol:**

No aspiration toxicity classification

Further information**Product:**

Remarks : By analogy with a product of similar composition

12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,91 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: The values mentioned are those of the active ingredient.
By analogy with a product of similar composition

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 2,23 mg/l
Exposure time: 48 h
Method: Directive 67/548/EEC, Annex V, C.2.
Remarks: The values mentioned are those of the active ingredient.
By analogy with a product of similar composition

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 22,3 mg/l
End point: Growth rate
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: The values mentioned are those of the active

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ingredient.

By analogy with a product of similar composition

NOEC (Desmodesmus subspicatus (green algae)): 1,48 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: The values mentioned are those of the active ingredient.

By analogy with a product of similar composition

- Toxicity to microorganisms : EC50 (activated sludge): > 243 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: The values mentioned are those of the active ingredient.
By analogy with a product of similar composition

Components:**Propan-2-ol:**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: no
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 10.000 mg/l
End point: Immobilization
Exposure time: 24 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: no
- Toxicity to algae/aquatic plants : EC10 (Scenedesmus quadricauda (Green algae)): ca. 1.800 mg/l
End point: Growth rate
Exposure time: 7 d
Test Type: static test
Analytical monitoring: no
Method: Other
GLP: no
- Toxicity to fish (Chronic toxicity) : Remarks: not required
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: not required

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Toxicity to microorganisms : EC10 (Pseudomonas putida): ca. 1.050 mg/l
Exposure time: 16 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 T.8
GLP: no

Plant toxicity : IC50: 2.104 mg/l
Exposure time: 3 d
End point: Growth
Species: Lactuca sativa (lettuce)
Analytical monitoring: no
Method: Other
GLP: no

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial organisms : Remarks: Not applicable

Persistence and degradability**Product:**

Biodegradability : Inoculum: activated sludge, non-adapted
Biodegradation: 75 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Remarks: Information refers to the main component.
Readily biodegradable, according to appropriate OECD test.
By analogy with a product of similar composition

Components:**Propan-2-ol:**

Biodegradability : aerobic
Inoculum: activated sludge
Biochemical Oxygen Demand (BOD)
Result: Readily biodegradable.
Biodegradation: 53 %
Exposure time: 5 d
Method: Directive 67/548/EEC, Annex V, C.5
GLP: no

Stability in water : Remarks: Not applicable

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: The bioaccumulation potential of the main component of the mixture is expected to be low.

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Components:**Propan-2-ol:**

Bioaccumulation : Remarks: Not applicable

Partition coefficient: n-
octanol/water : log Pow: 0,05
pH: 25
Method: No information available.**Mobility in soil****Product:**Distribution among
environmental compartments : Remarks: not tested.**Components:****Propan-2-ol:**Distribution among
environmental compartments : Remarks: Not applicable**Other adverse effects****Product:**Environmental fate and
pathways : Remarks: no data availableAdditional ecological
information : By analogy with a product of similar composition**Components:****Propan-2-ol:**Results of PBT and vPvB
assessment : This substance is not considered to be persistent,
bioaccumulating and toxic (PBT).Additional ecological
information : slightly hazardous to water
Do not allow to enter ground water, waterways or waste
water.

13. DISPOSAL CONSIDERATIONS**Disposal methods**Waste from residues : In accordance with local authority regulations, take to special
waste incineration plantContaminated packaging : Packaging that cannot be cleaned should be disposed of as
product waste

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14. TRANSPORT INFORMATION

IATA	not restricted
IMDG	not restricted

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered : Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use : Propan-2-ol

Prohibited substances : Not applicable

Restricted substances : Not applicable

Regulation of the Minister of Trade No. 44 of 2009 on Procurement, Distribution and Supervision of Hazardous Materials

Types of Hazardous Materials governed by Import Regulations : Not applicable

Types of Hazardous Materials of which the Distribution and Supervision is Regulated : Not applicable

16. OTHER INFORMATION**Further information**

Other information : Observe national and local legal requirements

Date format : yyyy/mm/dd

Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	: ACGIH - Biological Exposure Indices (BEI)
ID OEL	: Indonesia. Occupational Exposure Limits

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ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
ID OEL / NAB	:	Long term exposure limit
ID OEL / PSD	:	Short term exposure limit

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

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