

SAFEWING MP IV LAUNCH -US

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Substance key: 000000344932

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Version : 7 - 3 / USA

Date of printing :12/22/2022

SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Corporation 500 East Morehead Street Charlotte, NC, 28202 Telephone No.: +1 704 331 7000
Information of the substance/preparation:	BU Industrial & Consumer Specialties Product Stewardship, +1-704-331-7710 e-mail: SDS.NORAM@clariant.com
Emergency tel. number:	+1 800-424-9300(CHEMTREC)

Trade name: SAFEWING MP IV LAUNCH -US
Material number: 233876

Primary product use: Aircraft de-icing

Chemical family: polymer-thickened deicer based on propylene glycol, corrosion inhibitors, surfactants and water - green coloured.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
Propylene Glycol	57-55-6	>= 70 - < 90

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled : Move the victim to fresh air.
Give oxygen or artificial respiration if needed.
Get immediate medical advice/ attention.
Never give anything by mouth to an unconscious person.

In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.

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- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get medical attention immediately if irritation develops and persists.
- If swallowed : Get medical attention immediately.
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).
No additional symptoms are known.
- Notes to physician : None known.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)
- Further information : Wear full protective clothing and self-contained breathing apparatus.
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
Avoid contact with skin, eyes and clothing.
Wash thoroughly after handling.
Contain spill. Ensure adequate ventilation and wear appropriate personal protective equipment. Collect onto inert absorbent. Place in sealable container. Do not allow to contaminate water sources or sewers.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
Prevent product from entering drains.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Wash thoroughly after handling.
Keep container closed.
- Further information on storage conditions : Store in a cool, dry, well-ventilated area. Keep container sealed when not in use.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propylene Glycol	57-55-6	TWA	10 mg/m ³	US WEEL

Engineering measures : Local ventilation recommended - mechanical ventilation may be used.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection
Remarks : Butyl Rubber, PVC Or Neoprene.

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective equipment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Colour : green

Odour : slightly perceptible

Odour Threshold : not determined

pH : 7 - 7.5 (68 °F / 20 °C)
Method: DIN 19261

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Determined in the undiluted form

Melting point	:	-31 °F / -35 °C Method: ASTM D 2386
Boiling point	:	217 °F / 103 °C Method: ASTM D 1120
Flash point	:	> 212 °F / > 100 °C Method: ASTM D 92 (closed cup)
Evaporation rate	:	not determined
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	The substance or mixture is not classified as self heating.
Upper explosion limit / upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	not determined
Relative vapour density	:	not determined
Density	:	1.043 g/cm ³ (68 °F / 20 °C) 8.708 lb/gal (68 °F / 20 °C)
Bulk density	:	not determined
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	> 752 °F / > 400 °C Method: DIN 51794
Decomposition temperature	:	> 752 °F / > 400 °C Method: DIN 51794
Viscosity Viscosity, dynamic	:	approx. 10,000 - 20,000 mPa.s (68 °F / 20 °C) Method: ASTM D 2196
Viscosity, kinematic	:	not determined

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SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Stable
Conditions to avoid	:	None known.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

None known.

Acute toxicity**Product:**

Acute oral toxicity : Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:**Propylene Glycol:**

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

Acute inhalation toxicity : LC50 (Rabbit, no data available): > 317.042 mg/l
Exposure time: 2 h
Test atmosphere: dust/mist
Method: Other
GLP: no

Acute dermal toxicity : LD50 (Rabbit, no data available): > 2,000 mg/kg
Method: Other
GLP: no
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation**Product:**

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

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Components:**Propylene Glycol:**

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: No information available.

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

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:**Propylene Glycol:**

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

Respiratory or skin sensitisation**Product:**

Remarks: not tested.

Components:**Propylene Glycol:**

Test Type: Local lymph node assay (LLNA)
Exposure routes: Dermal
Species: Mouse
Method: OECD Test Guideline 429
Result: Not a skin sensitizer.
GLP: No information available.

Test Type: Maximisation Test
Exposure routes: Dermal
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Not a skin sensitizer.
GLP: No information available.

Germ cell mutagenicity**Components:****Propylene Glycol:**

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium

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Concentration: <= 10 mg/plate
 Metabolic activation: with
 Method: Ames test
 Result: negative
 GLP: No information available.

Test Type: Chromosome aberration test in vitro
 Test system: Human lymphocytes
 Concentration: 7,4 - 3810 µg/ml
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 473
 Result: negative
 GLP: yes

Genotoxicity in vivo

: Test Type: Chromosome Aberration Test
 Species: Rat (male)
 Strain: Sprague-Dawley
 Cell type: Bone marrow
 Application Route: oral (gavage)
 Exposure time: 6 - 24 - 48 h
 Dose: 30, 2500, and 5000 mg/kg
 Method: Other
 Result: negative
 GLP: no

Test Type: In vivo micronucleus test
 Species: Mouse (male)
 Cell type: Erythrocytes
 Application Route: Intraperitoneal injection
 Exposure time: 18 h
 Dose: 0, 2500, 5000, 10000, 15000 mg
 Method: Other
 Result: negative
 GLP: No information available.

Germ cell mutagenicity - Assessment

: In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

Carcinogenicity**Components:****Propylene Glycol:****Carcinogenicity - Assessment**

: Not classifiable as a human carcinogen.

IARC

No component 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.

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NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity**Components:****Propylene Glycol:**

Effects on fertility

: Test Type: Two-generation study
Species: Mouse, male and female
Strain: CD1
Application Route: Drinking water
Dose: 1820 - 4800 - 10100 mg/kg
General Toxicity - Parent: NOAEL: 10,100 mg/kg body weight
General Toxicity F1: NOAEL: 10,100 mg/kg body weight
General Toxicity F2: NOAEL: 10,100 mg/kg body weight
Method: Other
GLP: No information available.

Effects on foetal development

: Test Type: Pre-natal
Species: Mouse, female
Strain: CD1
Application Route: oral (gavage)
Dose: 520 - 5200 - 10400 mg/kg
Duration of Single Treatment: 9 d
General Toxicity Maternal: NOAEL: 520 mg/kg body weight
Teratogenicity: NOAEL: 1,040 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**Components:****Propylene Glycol:**

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

STOT - repeated exposure**Components:****Propylene Glycol:**

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

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Repeated dose toxicity**Components:****Propylene Glycol:**

Species: Rat, male and female
NOAEL: 1.700 - 2.100 mg/kg bw/day
Application Route: oral (feed)
Exposure time: 2 a
Number of exposures: daily
Dose: 200, 400, 900, 1700 mg/kg bw
Group: yes
Method: Other
GLP: no

Species: Cat, male
NOAEL: 443 mg/kg bw/day
Application Route: oral (feed)
Exposure time: 69 - 94 d
Number of exposures: daily
Dose: 80 - 4239 mg/kg
Group: yes
Method: Other
GLP: no

Species: Rat, male and female
LOEL: 0.16 mg/l
Application Route: Inhalation
Test atmosphere: dust/mist
Exposure time: 90 d
Number of exposures: 6 hours/day, 5 days/week
Dose: 0,16 - 1,01 - 2,18 mg/l
Group: yes
Method: Other
GLP: No information available.

Species: Mouse, female
NOAEL: 0.02
Application Route: Dermal
Exposure time: Lifespan
Number of exposures: 2x / w
Dose: 10-50-100% / 0.02 ml acetone
Group: yes
Method: Other
GLP: no
Remarks: No pathological findings

Aspiration toxicity**Components:****Propylene Glycol:**

No aspiration toxicity classification

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Experience with human exposure**Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

Further information**Product:**

Remarks: The classification was made by the conventional (calculation) method of the CLP Regulation (EC) No 1272/2008.

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,443 mg/l
Exposure time: 96 h
Method: OPPTS 850.1075

LC50 (Pimephales promelas (fathead minnow)): 2,443 mg/l
Exposure time: 96 h
Method: OPPTS 850.1075

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna Straus): 976 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Green algae - fresh water (Pseudokirchneriella subcapitata)): 2,228 mg/l
Exposure time: 96 h
Method: EPA OPPTS 850.5400 Algal toxicity, tiers I and II (1996)

Toxicity to microorganisms : EC50: 5,200 mg/l
Exposure time: 30 min
Method: ISO 11348-2

Components:**Propylene Glycol:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: Other
GLP: no

Toxicity to daphnia and other aquatic invertebrates : LC50 (Mysidopsis bahia (opossum shrimp)): 18,800 mg/l
End point: mortality

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		Exposure time: 96 h Test Type: static test Analytical monitoring: yes Method: Other GLP: yes
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 19,000 mg/l End point: Growth rate Exposure time: 96 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
		ErC50 (Skeletonema costatum (marine diatom)): 19,100 mg/l End point: Growth rate Exposure time: 96 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
Toxicity to fish (Chronic toxicity)	:	Chronic Toxicity Value (Fish): 2,500 mg/l End point: Other Exposure time: 30 d Method: Other GLP: no Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Ceriodaphnia spec.): 13,020 mg/l End point: Reproduction rate Exposure time: 7 d Test Type: semi-static test Analytical monitoring: yes Method: Other GLP: No information available.
Toxicity to microorganisms	:	NOEC (Pseudomonas putida): > 20,000 mg/l End point: Growth rate Exposure time: 18 h Test Type: Growth inhibition Analytical monitoring: no Method: Other GLP: no
Sediment toxicity	:	LC50: 6983 mg/kg dry weight (d.w.) Analytical monitoring: yes Solvent: no Duration: 10 d Test Type: static test

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Sediment: Natural sediment
Basis for effect: mortality
Method: Other
GLP: yes

Persistence and degradability**Product:**

Biodegradability : Biodegradation: 98 %
Exposure time: 7 d
Method: OECD Test Guideline 301E

Biochemical Oxygen Demand (BOD) : 0.34 kg/kg
Method: DIN/EN 1899-1

Chemical Oxygen Demand (COD) : 0.85 kg/kg
Method: DIN ISO 15705-H45

Dissolved organic carbon (DOC) : 0.24 kg/kg
Method: DIN/EN 1484

Components:**Propylene Glycol:**

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 100 mg/l ThOD
Biochemical Oxygen Demand (BOD)
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

aerobic
Inoculum: activated sludge
Concentration: 50.3 mg/l
Carbon dioxide (CO₂)
Result: Readily biodegradable.
Biodegradation: 90.6 %
Exposure time: 64 d
Method: OECD Test Guideline 306
GLP: yes

Bioaccumulative potential**Components:****Propylene Glycol:**

Bioaccumulation : Bioconcentration factor (BCF): 0.09
Method: calculated
GLP: no
Remarks: The value is given based on a SAR/AAR approach

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using OECD Toolbox, DEREK, VEGA QSAR models
(CAESAR models), etc.

Partition coefficient: n-
octanol/water : log Pow: -1.07 (68.9 °F / 20.5 °C)
pH: 6.3
Method: Regulation (EC) No. 440/2008, Annex, A.8
GLP: yes

Mobility in soil**Components:****Propylene Glycol:**

Distribution among
environmental compartments : Adsorption/Soil
Medium: water - soil
log Koc: 0.46
Method: other (calculated)

Stability in soil : Test Type: Laboratory
Soil temperature: 77 °F / 25 °C
Radio label: no
Percentage dissipation: 96 - 98 %
Method: Other
GLP: no

Other adverse effects**Product:**

Additional ecological
information : Biologically degradable, when diluted may be degraded in
biological purification plants

Components:**Propylene Glycol:**

Results of PBT and vPvB
assessment : This substance is not considered to be persistent,
bioaccumulating and toxic (PBT).

Additional ecological
information : Do not allow to enter ground water, waterways or waste water.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

RCRA - Resource
Conservation and Recovery
Authorization Act : No -- Not as sold.
Waste Code : NONE

Waste from residues : Must be incinerated in a suitable incineration plant holding a
permit delivered by the competent authorities.

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Contaminated packaging : Regulations concerning reuse or disposal of used packaging materials must be observed.

SECTION 14. TRANSPORT INFORMATION

DOT not restricted
IATA not restricted
IMDG not restricted

SECTION 15. REGULATORY INFORMATION**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

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 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Propylene Glycol	57-55-6	>= 70 - < 90 %
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Clean Water Act

Contains no known priority pollutants at concentrations greater than 0.1%.

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

TSCA : All substances listed as active on the TSCA inventory

SECTION 16. OTHER INFORMATION

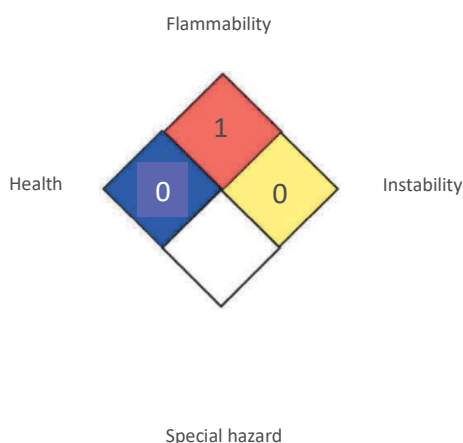
Further information

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NFPA 704:**Full text of other abbreviations**

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)
 US WEEL / TWA : 8-hr TWA

AIC - Australian Inventory of Industrial Chemicals; 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

SAFETY DATA SHEET



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Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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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. NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. 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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