

SAFETY DATA SHEET



PKT SORB-IT ½G G2-753 16X33 6K/PP

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Substance key: 000000487920

Revision Date: 10/21/2022

Version : 2 - 5 / USA

Date of printing :02/21/2024

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:

Product Stewardship, +1-704-331-7710
e-mail: SDS.NORAM@clariant.com

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name:

PKT SORB-IT ½G G2-753 16X33 6K/PP

Material number:

272948

CAS number:

7631-86-9

Primary product use:

Adsorbing medium for technical applications

Chemical family:

Silicon dioxide in article

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

This product is considered an "Article" by the US Department of Labor, Occupational Safety & Health Administration (OSHA) under OSHA 29 CFR 1910.1200(c) and is exempt from the requirements of a Safety Data Sheet (SDS) found in the Hazard Communication Standard, 29 CFR 1910.1200(b)(v).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Substance name : Silicon dioxide in article

CAS-No. : 7631-86-9

Components

Chemical name	CAS-No.	Concentration (% w/w)
Amorphous silicon dioxide	7631-86-9	>= 1 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

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General advice	: Remove contaminated clothing and shoes. Ensure that the First Aid Personnel are aware of the product involved, and take precautions to protect themselves (e.g. wear personal protection equipment).
If inhaled	: INHALATION: If exposed to excessive levels of dust or fumes, remove to fresh air and get medical attention. Get medical attention if cough and other symptoms develop.
In case of skin contact	: Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.
In case of eye contact	: Do not rub affected area. Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes.
If swallowed	: Normally not needed. If whole canisters or sachets are ingested, call a physician or your local Poison Control Center (1-800-222-1222 in the United States).
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	: Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Not combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: none
Specific hazards during firefighting	: none
Further information	: Wear full protective clothing and NIOSH/MSHA-approved positive pressure, self-contained breathing apparatus.
Special protective equipment for firefighters	: No special precautions required.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Ensure adequate ventilation. Wear suitable protective equipment. Wearing appropriate personal protective equipment, contain spill and collect into a suitable container. No special precautions required.
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- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.
Treat recovered material as described in the section "Disposal considerations".

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Observe the general rules of industrial fire protection
- Advice on safe handling : There are little or no health hazards associated with intact product package.
Do not cut, open or remove chemical agent from package.
- Conditions for safe storage : Keep tightly closed in a dry and cool place.
- Further information on storage conditions : Store in a cool, well-ventilated area.
Store in original container.
- Materials to avoid : Avoid storage near incompatible agents (see section 10).
- Further information on storage stability : Stable under recommended storage conditions.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Amorphous silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
		TWA (Respirable dust)	0.05 mg/m3 (Silica)	NIOSH REL
		TWA	6 mg/m3 (Silica)	NIOSH REL
		PEL (respirable)	0.05 mg/m3	OSHA CARC

- Engineering measures : Use adequate exhaust ventilation and/or dust collection to keep dust levels below exposure limits.

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Personal protective equipment

Respiratory protection	:	Wear NIOSH approved particulate filtering respirator rated N, R, or P95 or 100 or equivalent in the absence of proper environmental control. Type of respirator depends on level of exposure.
Hand protection	:	
Remarks	:	Butyl Rubber, PVC or Neoprene
Eye protection	:	Follow facility guidelines in the absence of dusts. Tightly fitting safety goggles
Skin and body protection	:	Wear protective clothing, including long sleeves and gloves, to prevent skin contact. Thoroughly wash clothing before reuse.
Protective measures	:	Observe the usual precautions for handling chemicals. Avoid contact with skin and eyes. Do not breathe dust.
Hygiene measures	:	Wash hands before breaks and at the end of workday. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Granules
Colour	:	white
Odour	:	none
Odour Threshold	:	Not applicable
pH	:	4 - 9 (68 °F / 20 °C) Suspension in water
Melting point	:	> 1,832 °F / > 1,000 °C
Boiling point	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	The product is not flammable.

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Upper explosion limit / upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	None
Relative vapour density	:	Not applicable
Density	:	no data available
Bulk density	:	200 - 850 kg/m3
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	The product does not contain any chemical groups which suggest self-reactive properties, nor is the estimated SADT less than 75 °C, nor is the exothermic decomposition energy higher than 300 J/g.
Viscosity Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive Method: Expert judgement
Oxidizing properties	:	The substance or mixture is not classified as oxidizing. Method: Expert judgement
Metal corrosion rate	:	Not applicable
Particle size	:	no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored normally.
Possibility of hazardous reactions	:	None known.
Conditions to avoid	:	Exposure to moisture (hygroscopic).

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Incompatible materials : air humidity
Water

Hazardous decomposition : No decomposition if stored and applied as directed.
products

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

Eye contact

Acute toxicity**Product:**

Acute oral toxicity : LD50: > 5,000 mg/kg

Acute dermal toxicity : LD50: > 2,000 mg/kg

Components:**Amorphous silicon dioxide:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,110 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Remarks: No significant adverse effects were reported

Acute inhalation toxicity : LC50 (Rat, male and female): > 2.08 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes
Assessment: The substance or mixture has no acute
inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Method: Other
GLP: no

Skin corrosion/irritation**Product:**

Result : No skin irritation

Components:**Amorphous silicon dioxide:**

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

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

Result : No eye irritation

Components:**Amorphous silicon dioxide:**

Species : Rabbit
Result : No eye irritation
Exposure time : 24 h
Method : OECD Test Guideline 405
GLP : yes

Respiratory or skin sensitisation**Product:**

Remarks : no data available

Components:**Amorphous silicon dioxide:**

Remarks : no data available

Germ cell mutagenicity**Components:****Amorphous silicon dioxide:**

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 667 - 10000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro gene mutation study in mammalian cells
Test system: Chinese hamster ovary cells
Concentration: 10 - 500 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Concentration: 38 - 1000 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

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Genotoxicity in vivo : Test Type: Cytogenetic assay
Species: Rat (male)
Strain: Fischer F344
Application Route: Inhalation
Exposure time: 13 w, 6 h/d, 5 d/wk
Dose: ca. 50 mg/m³
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:****Amorphous silicon dioxide:**

Species : Rat, male and female
Application Route : oral (feed)
Exposure time : 103 w
Dose : 1,25 - 2,5 - 5 % in diet
Control Group : yes
Frequency of Treatment : daily
NOAEL : ca. 1,800 - 3,000 mg/kg bw/day
Method : OECD Test Guideline 453
Result : negative
GLP : No information available.

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

IARC Group 1: Carcinogenic to humans
Amorphous silicon dioxide 7631-86-9
(Silica dust, crystalline)

OSHA OSHA specifically regulated carcinogen
Amorphous silicon dioxide 7631-86-9
(crystalline silica)

NTP Known to be human carcinogen
Amorphous silicon dioxide 7631-86-9
(Silica, Crystalline (Respirable Size))

Reproductive toxicity**Components:****Amorphous silicon dioxide:**

Effects on fertility : Test Type: One generation study
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (feed)

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Dose: 497 (m), 509 (f) mg/kg
General Toxicity - Parent: NOAEL: 497 mg/kg body weight
General Toxicity F1: NOAEL: 497 mg/kg body weight
Method: OECD Test Guideline 415
GLP: no

Effects on foetal development : Test Type: Pre-natal
Species: Rat
Strain: wistar
Application Route: oral (gavage)
Dose: 13,5 - 62,7 - 292 - 1350mg/kg
General Toxicity Maternal: NOAEL: 1,350 mg/kg body weight
Teratogenicity: NOAEL: 1,350 mg/kg body weight
Method: OECD Test Guideline 414
GLP: no

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.
No teratogenic effects to be expected.

STOT - single exposure**Components:****Amorphous silicon dioxide:**

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

STOT - repeated exposure**Components:****Amorphous silicon dioxide:**

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

Repeated dose toxicity**Components:****Amorphous silicon dioxide:**

Species : Rat, male and female
NOAEL : 4000 - 4500 mg/kg bw/day
Application Route : oral (feed)
Exposure time : 13 w
Number of exposures : continuously
Dose : 0,5 - 2 - 6,7 % SI in diet
Control Group : yes
Method : OECD Test Guideline 408
GLP : yes

Species : Rat, male and female
NOAEL : 1,3 mg/m³
LOAEL : 0.0059 mg/l

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Application Route : Inhalation
Exposure time : 13 w
Number of exposures : 6 hr/day; 5 days a week
Dose : 1,3 - 5,9 - 31 mg/m3
Control Group : yes
Method : OECD Test Guideline 413
GLP : yes

Application Route : Skin contact
Remarks : This information is not available.

Aspiration toxicity**Components:****Amorphous silicon dioxide:**

No aspiration toxicity classification

Experience with human exposure**Product:**

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

Further information**Product:**

Remarks : No data is available on the product itself.
Handle in accordance with good industrial hygiene and safety practice.

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

Toxicity to fish :
Remarks: no data available

Components:**Amorphous silicon dioxide:**

Toxicity to fish : LL0 (Brachydanio rerio (zebrafish)): 10,000 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 203
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

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Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1,000 mg/l
End point: Immobilization
Exposure time: 24 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : EL50 (Desmodesmus subspicatus (green algae)): > 10,000 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: yes
Remarks: By analogy with a product of similar composition
The details of the toxic effect relate to the nominal concentration.

Toxicity to fish (Chronic toxicity) : NOEC: 86.03 mg/l
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: 34.223 mg/l
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.

Sediment toxicity : LC50: 148.41 mg/l
Duration: 14 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.

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

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Persistence and degradability**Product:**

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Components:**Amorphous silicon dioxide:**

Biodegradability : Remarks: Not applicable

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Mobility in soil**Product:**

Distribution among environmental compartments : Remarks: Low potential for adsorption (based on substance properties)

Other adverse effects**Product:**

Results of PBT and vPvB assessment : Remarks: Not relevant for inorganic substances

Additional ecological information : This product has no known ecotoxicological effects. The product should not be allowed to enter drains, water courses or the soil. Avoid release to the environment.

Components:**Amorphous silicon dioxide:**

Environmental fate and pathways : not available

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

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 : This product, if discarded as sold, is not a Federal RCRA hazardous waste.

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Waste Code	: NONE
Waste from residues	: Dispose of this product in accordance with applicable local, state and federal regulations. Recover metal components by reprocessing whenever possible. Used catalysts may have different hazards or properties than the original product. This SDS does not apply to used catalysts.
Contaminated packaging	: Dispose of as unused product.

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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

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

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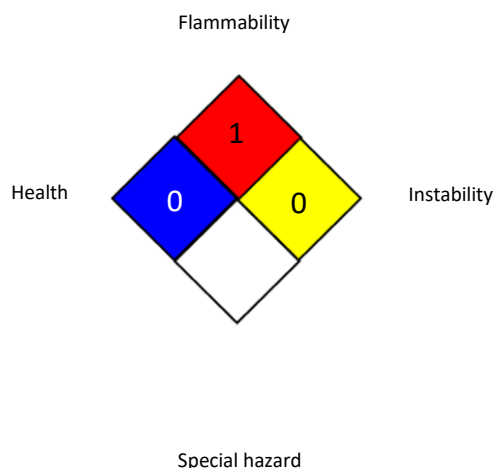
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This product does not contain any priority pollutants related to the U.S. Clean Water Act

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

TSCA : On TSCA Inventory, All components are compliant with the TSCA Inventory Notification (Active) rule.

SECTION 16. OTHER INFORMATION**Further information****NFPA 704:****Full text of other abbreviations**

NIOSH REL : USA. NIOSH Recommended Exposure Limits
OSHA CARC : OSHA Specifically Regulated Chemicals/Carcinogens
OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3
Mineral Dusts
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour
workday during a 40-hour workweek
OSHA CARC / PEL : Permissible exposure limit (PEL)
OSHA Z-3 / TWA : 8-hour time weighted average

AIIC - 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

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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; 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

Observe national and local legal requirements

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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.