

Hostastat HS 1 FF

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Substance key: SXR050820

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Version : 3 - 5 / USA

Date of printing :01/10/2024

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: Hostastat HS 1 FF
Material number: 105190
Synonyms: Hostastat HS 1 fine grain
Primary product use: Additive
Chemical family: Secondary alkanesulfonate,sodium salt

SECTION 2. HAZARDS IDENTIFICATION

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

Combustible dust

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : May form combustible dust concentrations in air.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

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P280 Wear protective gloves/ eye protection/ face protection.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243 Take precautionary measures against static discharge.
P233 Keep container tightly closed.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Disposal:

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

Other hazards

No additional hazards are known except those derived from the labelling.
Avoid contact with skin and eyes.
Potential environmental effects

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Sulfonic acids, C14-17-sec-alkane, sodium salts	97489-15-1	>= 90 - <= 100

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Remove/ Take off immediately all contaminated clothing.

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 with soap and water. Contact physician if irritation or other symptoms occur. If hot wax strikes skin, drench or immerse the area in water to assist cooling. Do not remove wax from a burn after it cools. Consult a physician.

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Immediately flush skin with plenty of water while removing contaminated clothing. Wash contaminated clothing before reuse. If redness or irritation occurs, seek medical attention.

- In case of eye contact : Immediate first aid is required to prevent eye damage. If victim is wearing contact lenses, remove them. Take care not to contaminate the victim's healthy skin and eye. Immediately flush the eye(s) with 0.5% acetic acid in water followed by large quantities of running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eye and lids with water. Do not let the victim rub the eyes. Obtain medical attention immediately. Oils and ointments should not be used at this time. Continue flushing with water or normal saline solution, if available, for an additional 15 minutes if a physician is not immediately available.
- If swallowed : If conscious, give the victim plenty of water to drink. Consult a physician. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Do not induce vomiting. Get immediate medical help.
- 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 : Seek ophthalmologist treatment if spilled in eyes.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Foam
Water spray jet
- Unsuitable extinguishing media : Dry powder
Carbon dioxide (CO₂)
High volume water jet
- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
Sulphur dioxide

Emits toxic and corrosive fumes under fire conditions.

SO₂ fumes which are corrosive may be evolved during burning. Firefighters should wear self-contained breathing apparatus and remain up-wind from fire. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

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Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Further information : Wear positive pressure self-contained breathing apparatus (SCBA) and full protective equipment.

Special protective equipment for firefighters : Self-contained breathing apparatus

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.
Wear proper protective equipment. Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Do not discharge into storm drains or the aquatic environment.

Environmental precautions : Do not allow to enter drains or waterways

Methods and materials for containment and cleaning up : Pick up mechanically. Rinse away rest with water.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep away sources of ignition.

Advice on safe handling : Use personal protective equipment.
Avoid breathing dust.
Avoid contact with skin and eyes.
Wash thoroughly after handling.
Store in a dry place.
Keep away from heat.
Store in original container.
Keep container tightly closed.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

Further information on storage conditions : Store in original container.
Keep container tightly closed.
Store in a cool, dry, well-ventilated area.

Materials to avoid : No materials to be especially mentioned.

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

Contains no substances with occupational exposure limit values.

Engineering measures : Use adequate exhaust ventilation and/or dust collection to keep dust levels below exposure limits.**Personal protective equipment**

Respiratory protection : If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR1910.134.

Hand protection
Remarks : Nitrile rubber gloves.

Eye protection : Safety glasses or chemical splash goggles.

Skin and body protection : Wear suitable protective equipment.

Protective measures : Avoid contact with skin and eyes.

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.**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Powder to fine granulates

Colour : light yellow

Odour : not specified

Odour Threshold : not determined

pH : approximately 7 (68 °F / 20 °C)
Concentration: 1 %
Method: DIN EN 1262

Softening point : > 392 °F / > 200 °C

Melting point : > 662 °F / > 350 °C
Method: DSCBoiling point : > 680 °F / > 360 °C
Method: DSC

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Flash point	:	not tested.
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	not determined
Self-ignition	:	Method: Expert judgement The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self heating.
Burning number	:	2 Short flaring up without spreading
Upper explosion limit / upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	< 0.000001 hPa Method: Calculated by Syracuse.
Relative vapour density	:	Not applicable
Density	:	approx. 1.05 g/cm ³ (73 °F / 23 °C) 30 % water-borne solution
Solubility(ies) Water solubility	:	approx. 320 g/l (77 °F / 25 °C)
Partition coefficient: n-octanol/water	:	log Pow: 0.2 Method: Calculated from the solubilities
Auto-ignition temperature	:	not determined
Decomposition temperature	:	> 680 °F / > 360 °C No decomposition up to 350 °C.
Viscosity Viscosity, dynamic	:	Not applicable
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 The product does not contain organic peroxide-groups which result from either the manufacturing process or from added ingredients.

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Self-heating substances	:	Method: Expert judgement The substance or mixture is not classified as self heating.
Surface tension	:	0.03 N/m, 1 g/l, 68 °F / 20 °C
Dust explosion class	:	St1
Metal corrosion rate	:	Not applicable
Particle size	:	not tested.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Dust can form an explosive mixture in air. Stable
Conditions to avoid	:	not known
Incompatible materials	:	not known
Hazardous decomposition products	:	Carbon dioxide (CO ₂) Sulphur oxides 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.

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

Eye contact
Skin contact
Ingestion
Inhalation

Acute toxicity**Product:**

Acute oral toxicity	:	Acute toxicity estimate: 507.61 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Remarks: not tested.
Acute dermal toxicity	:	Remarks: not tested.

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Components:**Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Acute oral toxicity : LD50 (Rat, male and female): 500 - 2,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : Remarks: no data available

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

Skin corrosion/irritation**Product:**

Remarks: not tested.

Components:**Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: Irritating to skin.
GLP: yes

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

Result: Risk of serious damage to eyes.
Method: OECD Test Guideline 405
Remarks: By analogy with a product of similar composition

Components:**Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Species: Rabbit
Result: Risk of serious damage to eyes.
Exposure time: 24 h
Method: OECD Test Guideline 405
GLP: yes

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

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Components:**Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Test Type: Maximisation Test

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: no

Assessment: Harmful if swallowed., Causes skin irritation., Causes serious eye damage.

Germ cell mutagenicity**Product:**

Germ cell mutagenicity - Assessment : No information available.

Components:**Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Genotoxicity in vitro : Test Type: In vitro gene mutation study in bacteria
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: no

Test Type: In vitro gene mutation study in mammalian cells
Test system: Chinese hamster fibroblasts
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse (male and female)
Strain: NMRI
Application Route: oral (gavage)
Method: OECD Test Guideline 474
Result: negative
GLP: no

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

In vivo tests did not show mutagenic effects

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Carcinogenicity**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Species: Rat, (male and female)
Application Route: oral (feed)
Exposure time: 2 Years
Dose: 0, 0,08, 0,4 ,2 % in diet
Frequency of Treatment: 1 daily
1,000 mg/kg body weight
LOAEL: 1,000 mg/kg body weight
Method: Other
Result: negative
GLP: no

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.

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**Product:**

Reproductive toxicity - Assessment : No information available.

No information available.

Components:**Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Effects on foetal development : Test Type: Two-generation study
Species: Rat, male and female
Strain: CD1
Application Route: oral (feed)
Dose: 1000, 3000, 10000 in diet parts per million
Duration of Single Treatment: > 60 d
Frequency of Treatment: 1 daily
Teratogenicity: NOEL: >= 10,000 ppm
Embryo-foetal toxicity: NOEL: >= 10,000 ppm
Method: Other
GLP: no

Reproductive toxicity - : No evidence of adverse effects on sexual function and fertility,

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Assessment

or on development, based on animal experiments.
Did not show teratogenic effects in animal experiments.

STOT - single exposure**Product:**

Remarks: not tested.

Components:**Sulfonic acids, C14-17-sec-alkane, sodium salts:**

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

STOT - repeated exposure**Product:**

Remarks: not tested.

Components:**Sulfonic acids, C14-17-sec-alkane, sodium salts:**

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: 200 mg/kg

Application Route: oral (feed)

Method: Chronic oral toxicity

Species: Mouse

NOAEL: 500 mg/kg

Method: Subacute dermal toxicity

Components:**Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Species: Rat, male and female

NOAEL: 200 mg/kg bw/day

Application Route: oral (feed)

Exposure time: 52 weeks

Number of exposures: daily

Dose: 0, 0,08, 0,4, 2% in diet

Group: yes

Method: Other

GLP: no

Repeated dose toxicity - Assessment : Harmful if swallowed., Causes skin irritation., Causes serious eye damage.

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Aspiration toxicity**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

no data available

Experience with human exposure**Product:**

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

Further information**Product:**

Remarks: Information refers to the main component.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**Toxicity to fish :
Remarks: not tested.Toxicity to daphnia and other :
aquatic invertebrates Remarks: not tested.Toxicity to algae/aquatic :
plants Remarks: not tested.

Toxicity to microorganisms : Remarks: not tested.

Components:**Sulfonic acids, C14-17-sec-alkane, sodium salts:**Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8.4 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Method: Regulation (EC) No. 440/2008, Annex, C.1
GLP: yesToxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 9.8 mg/l
aquatic invertebrates End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

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- Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
- Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.85 mg/l
End point: mortality
Exposure time: 28 d
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 204
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1 mg/l
End point: Reproduction rate
Exposure time: 22 d
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
- Toxicity to microorganisms : NOEC (Pseudomonas putida): 1,000 mg/l
Exposure time: 16 h
Test Type: static test
Method: DIN 38 412 Part 8
GLP: no
- Toxicity to soil dwelling organisms : Test Type: artificial soil
NOEC (Eisenia fetida (earthworms)): 470 mg/kg
Exposure time: 56 d
End point: Reproduction
Method: OECD Test Guideline 222
GLP: yes
- Sediment toxicity : NOEC (Nematode Caenorhabditis elegans): 1000 mg/kg dry weight (d.w.)
Analytical monitoring: no
Solvent: yes
Duration: 96 h
Method: Draft ISO/DIS 10872 (2008)
GLP: yes

Ecotoxicology Assessment

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

Persistence and degradability**Product:**

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Biodegradability : Remarks: This property is substance-specific and therefore cannot be given for the preparation.

Chemical Oxygen Demand (COD) : 2,065 mg/g

Dissolved organic carbon (DOC) : 400 mg/g

Components:**Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 103 mg/l
Carbon dioxide (CO₂)
Result: Readily biodegradable.
Biodegradation: 78 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: no

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: not available

Mobility in soil**Product:**

Distribution among environmental compartments : adsorption
Koc: 50
Method: OECD Test Guideline 106
Remarks: Not expected to adsorb on soil.

Components:**Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Distribution among environmental compartments : adsorption
Medium: Soil
Kd: 20 - 75
Method: OECD Test Guideline 106
Remarks: immobile

Other adverse effects**Product:**

Environmental fate and pathways : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Results of PBT and vPvB assessment : After consideration of all available toxicity and ecotoxicity data it is concluded that the substance does not fulfil the PBT or

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vPvB criteria.

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.
Avoid release to the environment.
Ecological data given refer to the main component.

Components:**Sulfonic acids, C14-17-sec-alkane, sodium salts:**

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

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

RCRA - Resource Conservation and Recovery Authorization Act Waste Code : This product, if discarded as sold, is not a Federal RCRA hazardous waste.
: NONE

Waste from residues : Dispose of spilled or waste product, contaminated soil and other contaminated materials in licensed landfill or treatment facility in accordance with all local, state, and federal regulations.

Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste

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 : Combustible dust

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Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313

: The following components are subject to reporting levels established by SARA Title III, Section 313:

Fatty acids, C16- 91051-01-3 >= 1 - < 5 %
18, zinc salts**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 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 contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Fatty acids, C16-18, zinc 91051-01-3 >= 1 - < 5 %
salts

This product contains the following priority pollutants related to the U.S. Clean Water Act:, Zinc

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.

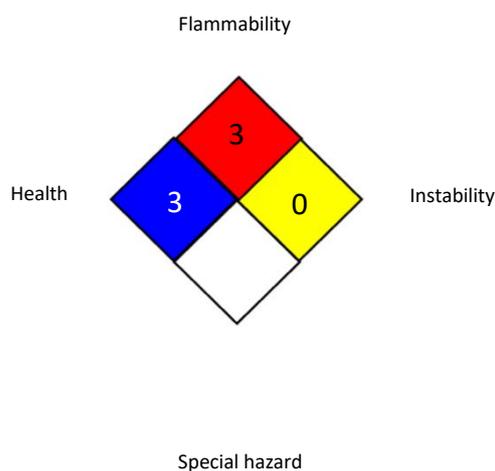
SECTION 16. OTHER INFORMATION**Further information**

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

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 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

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Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods;
vPvB - Very Persistent and Very Bioaccumulative

Handle with care. Organic dusts have the potential to be explosive with static spark or flame initiation.

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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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