

HOSTAPON SCI 85 G

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Substance key: 000000031436

Revision Date: 04/08/2022

Version : 5 - 1 / USA

Date of printing :08/30/2023

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

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

Trade name:**HOSTAPON SCI 85 G****Material number:**

158171

CAS number:

61789-32-0

Synonyms:

Product Has No Synonyms

Primary product use:

Surface active agent for cosmetics
Raw material for detergents

Chemical family:

Coco fatty acid isethionate, sodium salt

SECTION 2. HAZARDS IDENTIFICATION

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

Eye irritation : Category 2A

Combustible dust

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements :

Prevention:

P264 Wash skin thoroughly after handling.

P280 Wear eye protection/ face protection.

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.

No smoking.

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P243 Take precautionary measures against static discharge.
P233 Keep container tightly closed.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
Substance name : Coco fatty acid isethionate, sodium salt
CAS-No. : 61789-32-0

Components

Chemical name	CAS-No.	Concentration (% w/w)
Coconut fatty acid isethionate-sodium salt	61789-32-0	90 - 100
Fatty acids, C8-18 and C18-unsatd.	67701-05-7	5 - 10

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 thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.

In case of eye contact : Immediately flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

If swallowed : Never give anything by mouth to a unconscious person. If swallowed do not induce vomiting. Give large quantities of water. If available, give several glasses of milk. If vomiting

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occurs spontaneously, keep airway clear. Seek 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 : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray jet
Foam

Unsuitable extinguishing media : Dry powder
Carbon dioxide (CO₂)
High volume water jet

Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:

Sulphur dioxide

Sulphur trioxide

Emits toxic and corrosive fumes under fire conditions.
Risk of dust explosion in fine crystalline powder form.

Further information : Apply alcohol-type or all purpose-type foams by manufacturers' recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires. Do not direct a solid stream of water or foam into hot burning pools; this may cause frothing and increase fire intensity. Use self-contained breathing apparatus and 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.
Avoid dust formation.
Wear appropriate protective equipment. If dry, sweep up or shovel up and place in appropriate waste disposal containers. If molten, collect on suitable absorbant and place in appropriate waste disposal containers. Cleanup may be accomplished by flushing with water and collecting cleaning wastes for disposal or by removal of contaminated soils for disposal.

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- 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 : Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations.
Keep away sources of ignition.
Dust can form an explosive mixture in air.
- Advice on safe handling : Store in cool, dry area. Avoid excessive heat. Keep away from sources of heat, sparks or open flames.
- Further information on storage conditions : Store in original container.
Keep container closed.

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

Contains no substances with occupational exposure limit values.

- Engineering measures** : A system of local and/or general exhaust is recommended where employee exposures are at or above Occupational Exposure Limits (OEL).

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 or chemical splash goggles.

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- Skin and body protection : Dermal contact should be prevented through the use of impervious clothing, footwear, and a face shield where splattering may occur.
- Protective measures : Avoid contact with skin and eyes.
Do not breathe dust.
- 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 : Granules
- Colour : white, off-white
- Odour : characteristic
- pH : 5 - 6.5
Concentration: 10 %
Determined as a 10% suspension in distilled water.
- Melting point : 354 - 356 °F / 179 - 180 °C
- Boiling point : > 392 °F / > 200 °C
- Flash point : > 212 °F / > 100 °C
- Evaporation rate : not tested.
- Flammability (solid, gas) : not determined
- Self-ignition : 464 °F / 240 °C
- Burning number : 3
Local combustion without spreading
- Upper explosion limit / upper flammability limit : Not applicable
- Lower explosion limit / Lower flammability limit : Not applicable

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Vapour pressure	:	< 0.001 mbar (77 °F / 25 °C)
Relative vapour density	:	not tested.
Density	:	Not applicable
Bulk density	:	0.666 - 0.672 g/cm ³
Solubility(ies)		
Water solubility	:	practically insoluble (68 °F / 20 °C)
Solubility in other solvents	:	slightly soluble
Partition coefficient: n-octanol/water	:	log Pow: -0.41
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	610 °F / 321 °C
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Oxidizing properties	:	not oxidizing
Dust explosion class	:	St1
Metal corrosion rate	:	Not applicable
Minimum ignition energy	:	30 - 100 mJ
Particle size	:	no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.
Conditions to avoid	:	Keep away from heat and sources of ignition.
Incompatible materials	:	Strong acids and oxidizing agents
Hazardous decomposition	:	No decomposition if stored and applied as directed.

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products

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**Eye contact
Skin contact
Inhalation**Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : Remarks: not tested.

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:**Coconut fatty acid isethionate-sodium salt:**

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 g/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Fatty acids, C8-18 and C18-unsatd.:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
Remarks: By analogy with a product of similar composition

Acute inhalation toxicity : LC50 (Rat): > 0.1624 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: By analogy with a product of similar composition

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: OECD Test Guideline 434
Remarks: By analogy with a product of similar composition

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Skin corrosion/irritation**Product:**

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Components:**Coconut fatty acid isethionate-sodium salt:**

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

Fatty acids, C8-18 and C18-unsatd.:

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

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

Species: rabbit eye
Result: irritating
Method: OECD Test Guideline 405

Components:**Coconut fatty acid isethionate-sodium salt:**

Species: Rabbit
Result: Irritating to eyes.
Method: OECD Test Guideline 405
GLP: yes

Fatty acids, C8-18 and C18-unsatd.:

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

Respiratory or skin sensitisation**Product:**

Species: Guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.

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Components:**Coconut fatty acid isethionate-sodium salt:**

Test Type: Guinea pig maximization test
Exposure routes: Dermal
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Not a skin sensitizer.
GLP: yes

Assessment: Causes serious eye irritation.

Fatty acids, C8-18 and C18-unsatd.:

Remarks: This information is not available.

Assessment: Causes skin irritation., Causes serious eye damage.

Germ cell mutagenicity**Product:**

Germ cell mutagenicity - Assessment : Not mutagenic in Ames Test

Components:**Coconut fatty acid isethionate-sodium salt:**

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
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: mouse lymphoma cells
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
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: Micronucleus test

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Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 487
Result: negative

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

Fatty acids, C8-18 and C18-unsatd.:

Genotoxicity in vitro : Remarks: no data available

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

Carcinogenicity**Product:**

Carcinogenicity - Assessment : No information available.

Components:**Coconut fatty acid isethionate-sodium salt:**

Carcinogenicity - Assessment : No information available.

Fatty acids, C8-18 and C18-unsatd.:

Carcinogenicity - Assessment : No information available.

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.

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Components:**Coconut fatty acid isethionate-sodium salt:**

Effects on fertility : Test Type: One generation study
Species: Rat, male and female
Strain: wistar
Application Route: oral (gavage)
Dose: 100, 300, 1000 mg/kg bw/day
Duration of Single Treatment: 28 - 70 d
General Toxicity - Parent: NOAEL: 1,000 mg/kg body weight
Method: OECD Test Guideline 416
GLP: yes
Remarks: By analogy with a product of similar composition

Effects on foetal development : Test Type: Pre-natal
Species: Rat, female
Strain: wistar
Application Route: oral (gavage)
Dose: 100, 300, 1000 mg/kg bw/d
Duration of Single Treatment: 20 d
Frequency of Treatment: 1 daily
General Toxicity Maternal: NOEL: 1,000 mg/kg body weight
Developmental Toxicity: NOEL: 1,000 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes
Remarks: By analogy with a product of similar composition

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

Fatty acids, C8-18 and C18-unsatd.:

Effects on fertility : Remarks: This information is not available.

Effects on foetal development : Remarks: This information is not available.

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

STOT - single exposure**Product:**

Remarks: not tested.

Components:**Coconut fatty acid isethionate-sodium salt:**

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

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Fatty acids, C8-18 and C18-unsatd.:

Remarks: no data available

STOT - repeated exposure**Product:**

Remarks: not tested.

Components:**Coconut fatty acid isethionate-sodium salt:**

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

Fatty acids, C8-18 and C18-unsatd.:

Remarks: no data available

Repeated dose toxicity**Product:**

Remarks: not tested.

Components:**Coconut fatty acid isethionate-sodium salt:**

Species: Rat, male and female

NOAEL: 426 mg/kg bw/day

Application Route: oral (gavage)

Exposure time: 91 - 92 d

Number of exposures: daily

Dose: 50 ,200 ,1000 mg/kg bw

Group: yes

Method: OECD Test Guideline 408

GLP: yes

Remarks: By analogy with a product of similar composition

Species: Rat, male and female

NOAEL: > 2070 mg/kg bw/day

Application Route: Dermal

Exposure time: 6 hours

Number of exposures: once per day for 28 days

Dose: 0, 0,08, 0,91, 2,07 g/kg

Group: yes

Method: OECD Test Guideline 410

GLP: yes

Remarks: By analogy with a product of similar composition

Species: Rat, male and female

NOEL: >= 1000 mg/kg bw/day

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Application Route: oral (feed)
Exposure time: 28 d
Number of exposures: daily
Method: OECD Test Guideline 407

Repeated dose toxicity - Assessment : Causes serious eye irritation.

Fatty acids, C8-18 and C18-unsatd.:

Remarks: This information is not available.

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

Aspiration toxicity**Components:****Coconut fatty acid isethionate-sodium salt:**

no data available

Fatty acids, C8-18 and C18-unsatd.:

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: There is no data available for this product.

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

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 10 - 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 30 mg/l
Exposure time: 48 h
Method: DIN 38412 T.11

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Toxicity to algae/aquatic plants : EC10 (Pseudokirchneriella subcapitata (algae)): 0.3 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50: > 1,000 mg/l
Method: OECD Test Guideline 209

Components:**Coconut fatty acid isethionate-sodium salt:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 9.9 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes
Remarks: The values mentioned are those of the active ingredient.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 48 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes
Remarks: By analogy with a product of similar composition

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 4.8 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.31 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) : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: no data available

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Toxicity to microorganisms : EC50 (activated sludge): > 687 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209
GLP: no
Remarks: The values mentioned are those of the active ingredient.

Ecotoxicology Assessment

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

Fatty acids, C8-18 and C18-unsatd.:

Toxicity to fish : LC50 (*Oryzias latipes* (Orange-red killifish)): 5 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: By analogy with a product of similar composition

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 3.6 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: By analogy with a product of similar composition

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): > 7.6 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: By analogy with a product of similar composition

Toxicity to fish (Chronic toxicity) : NOEC (*Danio rerio* (zebra fish)): 2 mg/l
End point: mortality
Exposure time: 28 d
Remarks: By analogy with a product of similar composition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: no data available

Toxicity to microorganisms : Remarks: no data available

Persistence and degradability**Product:**

Biodegradability : Biodegradation: > 80 %
Exposure time: 28 d
Method: OECD Test Guideline 301E

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Components:**Coconut fatty acid isethionate-sodium salt:**

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 2 mg/l
Biochemical Oxygen Demand (BOD)
Result: Readily biodegradable.
Biodegradation: 78 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: yes

Fatty acids, C8-18 and C18-unsatd.:

Biodegradability : aerobic
Result: Readily biodegradable.

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: Due to the low logPow bioaccumulation is not expected

Components:**Coconut fatty acid isethionate-sodium salt:**

Partition coefficient: n- : log Pow: -0.41 (68 °F / 20 °C)
octanol/water pH: 7
Method: Other
GLP: no

Fatty acids, C8-18 and C18-unsatd.:

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

Mobility in soil**Product:**

Distribution among : Remarks: not tested.
environmental compartments

Components:**Coconut fatty acid isethionate-sodium salt:**

Distribution among : adsorption
environmental compartments Medium: water - soil
Koc: 1451, log Koc: 3.2
Method: OECD Test Guideline 106
Remarks: By analogy with a product of similar composition

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Fatty acids, C8-18 and C18-unsatd.:

Distribution among environmental compartments : Remarks: no data available

Other adverse effects**Product:**

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

Additional ecological information : no data available

Components:**Coconut fatty acid isethionate-sodium salt:**

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

Fatty acids, C8-18 and C18-unsatd.:

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

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

RCRA - Resource Conservation and Recovery Act

Authorization Act

Waste Code

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

: NONE

Waste from residues

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

Contaminated packaging

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

SECTION 14. TRANSPORT INFORMATION

DOT

not restricted

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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
Serious eye damage or eye irritation

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 SOCMII 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.

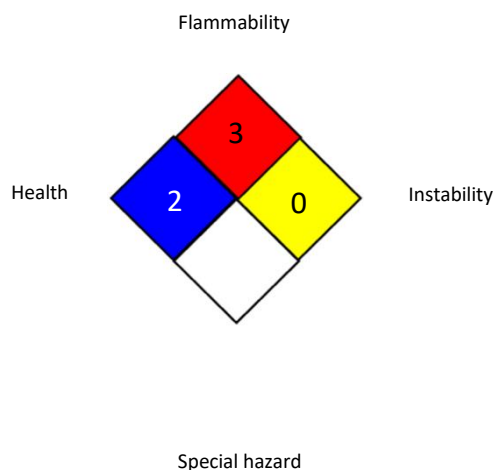
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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 : All components of this product are listed on the TSCA Inventory. However, the primary use of this product is NOT subject to TSCA but rather to FDA and must comply with the FDA regulations.

SECTION 16. OTHER INFORMATION**Further information**

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-

Substance key: 000000031436

Revision Date: 04/08/2022

Version : 5 - 1 / USA

Date of printing :08/30/2023

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

Revision Date : 04/08/2022

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