Substance key: SXR024266	Revision Date: 02/08/2024
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SECTION 1. IDENTIFICATION

Identification of the company:
Global Amines America Inc.
11233 SHADOW CREEK PKWY., SUITE 250
Pearland, TX, 77584
Telephone No.: +1 713-482-3981

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: **Genamin STAC Cardboard Box 0025**
Material number: 107741

Synonyms: Steartrimonium Chloride

Primary product use: Surface active agent for cosmetics

Chemical family: Octadecyl trimethyl ammonium chloride (containing 20 % isopropanol)

SECTION 2. HAZARDS IDENTIFICATION

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

Acute toxicity (Oral) : Category 4

Skin corrosion : Category 1C

Serious eye damage : Category 1

Combustible dust

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

Prevention:

P260 Do not breathe dust.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
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.
P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
C18-Alkyltrimethyl ammonium chloride	112-03-8	>= 70 - < 90
Propan-2-ol	67-63-0	>= 10 - < 20

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	:	Remove contaminated clothing. Flush all affected areas with large amounts of water for at least 15 minutes. Seek medical attention immediately.
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	:	Do NOT induce vomiting. Call a physician 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.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray jet Alcohol-resistant foam
Unsuitable extinguishing media	:	Carbon dioxide (CO2) Dry powder High volume water jet
Specific hazards during firefighting	:	In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO) Nitrogen oxides (NOx) Hydrogen chloride Emits toxic and corrosive fumes under fire conditions.
Further information	:	Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.
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. Ensure adequate ventilation. Keep away sources of ignition. Remove all sparking devices or ignition sources. Wearing appropriate personal protective equipment, contain spill, ventilate area of spill or leak. collect into suitable container. Rinse residual with water. Do not allow to contaminate water

sources, sewers or soil.

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 warm water.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Traces of flammable substances can collect in the vapour space of closed systems, therefore keep sources of ignition away.
Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations.
Keep away from sources of ignition - No smoking.
not highly flammable
Electrical equipment should be protected to the appropriate standard.

Advice on safe handling : Store in a well ventilated area away from heat, sparks or open flames. Keep containers tightly closed when not in use. Wear proper protective equipment.
Flammable solvent vapors can collect in the headspace of containers, process equipment, and other closed systems.

Further information on storage conditions : Store in original container.
Keep container closed.

Materials to avoid : Do not store with alkalies

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1
		TWA	400 ppm 980 mg/m3	OSHA P0

		STEL	500 ppm 1,225 mg/m3	OSHA P0

Biological occupational exposure limits

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

Engineering measures : Use ventilation adequate to keep exposures below recommended exposure limits. See the safety datasheet.

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 : Chemical splash goggles with face shield.

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 : Do not inhale vapours
Avoid contact with skin.
Avoid contact with 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 : pellets

Colour	:	light yellow
Odour	:	of isopropanol
Odour Threshold	:	Not tested
pH	:	approx. 5 (68 °F / 20 °C) Concentration: 1 %
Melting range	:	140 - 158 °F / 60 - 70 °C
Boiling point	:	455 - 464 °F / 235 - 240 °C Method: DSC Information refers to the main component.
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	not determined
Burning rate	:	1.25 mm/s 80 s
Self-ignition	:	not tested.
Burning number	:	5 Complete combustion with flames
Upper explosion limit / upper flammability limit	:	12.7 %(V) Data relate to solvent
Lower explosion limit / Lower flammability limit	:	2 %(V) Data relate to solvent
Vapour pressure	:	43 hPa (68 °F / 20 °C) Data relate to solvent
Relative vapour density	:	2.1 The data refer to the solvent
Density	:	0.91 g/cm3 (68 °F / 20 °C) Method: Pyknometer Data corresponds to that of the active component
Bulk density	:	365 kg/m3
Solubility(ies)		
Water solubility	:	10 g/l soluble, turbid (68 °F / 20 °C)

Solubility in other solvents	:	290 g/l (73 °F / 23 °C) Data corresponds to that of the active component Solvent: 1-octanol Method: OECD Test Guideline 105
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	not tested.
Decomposition temperature	:	> 842 °F / > 450 °C
Viscosity		
Viscosity, dynamic	:	not tested.
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive Information refers to the main component.
Oxidizing properties	:	There are no chemical groups associated with oxidising properties present in the molecule. Information refers to the main component.
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	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Reactions with alkalies. Uncleaned empty vessels may contain product gases which can form explosive mixtures with air. Stable
Conditions to avoid	:	Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials	:	not known
Hazardous decomposition products	:	Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact
Skin contact
Ingestion
Inhalation

Acute toxicity

Harmful if swallowed.

Components:

C18-Alkyltrimethyl ammonium chloride:

Acute oral toxicity	:	LD50 (Rat, male and female): 702.5 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	Remarks: no data available

Propan-2-ol:

Acute oral toxicity	:	LD50 (Rat, no data available): 5,840 mg/kg Method: OECD Test Guideline 401 GLP: no
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 10000 ppm Exposure time: 6 h Test atmosphere: vapour Method: OECD Test Guideline 403 GLP: yes
Acute dermal toxicity	:	LD50 (Rabbit, no data available): 13,900 mg/kg Method: OECD Test Guideline 402 GLP: no

Skin corrosion/irritation

Causes severe burns.

Product:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Corrosive after 1 to 4 hours of exposure

Components:

C18-Alkyltrimethyl ammonium chloride:

Species	:	Rabbit
Exposure time	:	4 h
Method	:	OECD Test Guideline 404
Result	:	Corrosive after 1 to 4 hours of exposure
GLP	:	yes

Propan-2-ol:

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

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks	:	not tested.

Components:

C18-Alkyltrimethyl ammonium chloride:

Result	:	Risk of serious damage to eyes.
Remarks	:	Study not performed as the substance is corrosive.

Propan-2-ol:

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

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	non-sensitizing

Components:

C18-Alkyltrimethyl ammonium chloride:

Test Type	:	Buehler Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Not a skin sensitizer.
GLP	:	yes
Assessment	:	Harmful if swallowed., Toxic in contact with skin., Causes severe skin burns and eye damage., Causes serious eye damage.

Propan-2-ol:

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

Germ cell mutagenicity

Not classified due to lack of data.

Product:

Germ cell mutagenicity - Assessment	:	Not mutagenic in Ames Test

Components:

C18-Alkyltrimethyl ammonium chloride:

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: gene mutation test Test system: Chinese hamster fibroblasts 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 fibroblasts Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: yes
Germ cell mutagenicity - Assessment	:	In vitro tests did not show mutagenic effects

Propan-2-ol:

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

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

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

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

Carcinogenicity

Not classified due to lack of data.

Product:

Carcinogenicity - Assessment : No information available.

Components:

C18-Alkyltrimethyl ammonium chloride:

Carcinogenicity - Assessment : No information available.

Propan-2-ol:

Species : Rat, male and female
Application Route : Inhalation
Exposure time : 104 w
Dose : 200 - 2500 - 5000 ppm
Control Group : yes
Frequency of Treatment : 6 hours/day, 5 days/week
: ca. 12.29 mg/l
Method : OECD Test Guideline 451
GLP : yes

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

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

Not classified due to lack of data.

Product:

Reproductive toxicity - Assessment : No information available.

No information available.

Components:

C18-Alkyltrimethyl ammonium chloride:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (feed)
Dose: 250, 1000, 2000 ppm
General Toxicity - Parent: NOAEL: 250 mg/kg body weight
General Toxicity F1: NOAEL: 250 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: Rabbit
Strain: NZW
Application Route: Dermal
Dose: 0, 10, 20 and 40 mg/kg bw/da
Duration of Single Treatment: 11 d
General Toxicity Maternal: NOAEL: 40 mg/kg body weight
Developmental Toxicity: NOAEL: 40 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.

Propan-2-ol:

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

Method: OECD Test Guideline 415
GLP: yes

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

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

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

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

STOT - single exposure

Not classified due to lack of data.

Product:

Remarks : not tested.

Components:

C18-Alkyltrimethyl ammonium chloride:

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

Propan-2-ol:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified due to lack of data.

Product:

Remarks : not tested.

Components:

C18-Alkyltrimethyl ammonium chloride:

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

Propan-2-ol:

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

Repeated dose toxicity

Product:

Remarks : not tested.

Components:

C18-Alkyltrimethyl ammonium chloride:

Species	:	Rat, male and female
NOAEL	:	113 mg/kg
Application Route	:	oral (feed)
Exposure time	:	90 d
Dose	:	22, 113 and 273 mg/kg bw/day
Control Group	:	yes
Method	:	OECD Test Guideline 408
Remarks	:	By analogy with a product of similar composition

Species	:	Rabbit, male and female
NOAEL	:	10 mg/kg
Application Route	:	Dermal
Exposure time	:	28 d
Number of exposures	:	5 days/week for 4 wks
Dose	:	0 or 10 mg/kg/day
Control Group	:	yes
Method	:	OECD Test Guideline 410
GLP	:	No information available.
Remarks	:	By analogy with a product of similar composition

Repeated dose toxicity - Assessment : Harmful if swallowed., Toxic in contact with skin., Causes severe skin burns and eye damage., Causes serious eye damage.

Propan-2-ol:

Species	:	Rat, male and female
NOAEL	:	12.5 mg/l
Application Route	:	Inhalation
Test atmosphere	:	vapour
Exposure time	:	2 a
Number of exposures	:	6 hours/day, 5 days/week
Dose	:	500 - 2500 - 5000 ppm
Control Group	:	yes
Method	:	Other
GLP	:	yes

Aspiration toxicity

Not classified due to lack of data.

Product:

no data available

Components:

C18-Alkyltrimethyl ammonium chloride:

No aspiration toxicity classification

Propan-2-ol:

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 0.15 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): 0.037 mg/l

aquatic invertebrates		Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: The values mentioned are those of the active ingredient.
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (microalgae)): 0.08 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: The values mentioned are those of the active ingredient. NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.04 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: The values mentioned are those of the active ingredient.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.0068 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: Information refers to the main component.
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): 54 mg/l Method: OECD Test Guideline 209

Components:

C18-Alkyltrimethyl ammonium chloride:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 0.064 mg/l End point: mortality Exposure time: 96 h Test Type: semi-static test Analytical monitoring: no Method: OECD Test Guideline 203 GLP: no
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.037 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 202 GLP: no
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (algae)): 0.113 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 201 GLP: yes

ErC10 (Pseudokirchneriella subcapitata (algae)): 0.068 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 0.032 mg/l
End point: mortality
Exposure time: 28 d
Analytical monitoring: yes
Method: Other
GLP: yes
Remarks: By analogy with a product of similar composition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.00415 mg/l
End point: mortality
Exposure time: 21 d
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 211
GLP: No information available.
Remarks: By analogy with a product of similar composition

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to microorganisms : EC50: 130 mg/l
Exposure time: 28 d
Method: OECD Test Guideline 216

Toxicity to soil dwelling organisms : Test Type: artificial soil
LC50 (Eisenia fetida (earthworms)): 7,070 mg/kg
Exposure time: 14 d
End point: mortality
Method: OECD Test Guideline 207
GLP: yes

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Propan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l
End point: mortality
Exposure time: 96 h

Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: no

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 10,000 mg/l
End point: Immobilization
Exposure time: 24 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: no

Toxicity to algae/aquatic plants : EC10 (Scenedesmus quadricauda (Green algae)): ca. 1,800 mg/l
End point: Growth rate
Exposure time: 7 d
Test Type: static test
Analytical monitoring: no
Method: Other
GLP: no

Toxicity to fish (Chronic toxicity) : Remarks: not required

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: not required

Toxicity to microorganisms : EC10 (Pseudomonas putida): ca. 1,050 mg/l
Exposure time: 16 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 T.8
GLP: no

Plant toxicity : IC50: 2,104 mg/l
Exposure time: 3 d
End point: Growth
Species: Lactuca sativa (lettuce)
Analytical monitoring: no
Method: Other
GLP: no

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial organisms : Remarks: Not applicable

Persistence and degradability

Product:

Biodegradability : Biodegradation: > 80 %

Method: OECD Test Guideline 302B

Biodegradation: 81 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Remarks: The data refer to the technical active substance

Chemical Oxygen Demand (COD) : 2,070 mg/g

Dissolved organic carbon (DOC) : 510 mg/g

Components:

C18-Alkyltrimethyl ammonium chloride:

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 3 mg/l
Biochemical Oxygen Demand (BOD)
Result: Readily biodegradable.
Biodegradation: 77 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: yes

Propan-2-ol:

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

Stability in water : Remarks: Not applicable

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).
Information refers to the main component.

Components:

C18-Alkyltrimethyl ammonium chloride:

Bioaccumulation : Bioconcentration factor (BCF): 70.8
Method: calculated

Partition coefficient: n- : log Pow: 3.61 (77 °F / 25 °C)

octanol/water		pH: 7 Method: Other GLP: yes

Propan-2-ol:

Bioaccumulation	:	Remarks: Not applicable
Partition coefficient: n-octanol/water	:	log Pow: 0.05 pH: 25 Method: No information available.

Mobility in soil

Product:

Distribution among environmental compartments	:	Remarks: not tested.

Components:

Propan-2-ol:

Distribution among environmental compartments	:	Remarks: Not applicable

Other adverse effects

Product:

Environmental fate and pathways	:	Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected. : No information is available on the mixture "as is". If relevant information is available on the substances listed in Chapter 3, it is reported here.
Additional ecological information	:	The product has not been tested. The information is derived from the properties of the individual components.

Components:

C18-Alkyltrimethyl ammonium chloride:

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

Propan-2-ol:

Results of PBT and vPvB assessment	:	Substance is not persistent, bioaccumulative, and toxic (PBT).

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.
Waste Code	:	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 Regulation:

UN/NA-number:	UN 1759
Proper shipping name:	Corrosive solids, n.o.s.
Technical Name:	OCTADECYLTRIMETHYLAMMONIUMCHLORIDE
Primary hazard class:	8
Packing group:	II

IATA

UN/ID number:	UN 1759
Proper shipping name:	Corrosive solid, n.o.s.
Hazard inducer(s):	OCTADECYLTRIMETHYLAMMONIUMCHLORIDE
Primary risk:	8
Packing group:	II
Remarks:	Shipment permitted

IMDG

UN no.:	UN 1759
Proper shipping name:	Corrosive solid, n.o.s.
Hazard inducer(s):	OCTADECYLTRIMETHYLAMMONIUMCHLORIDE
Primary risk:	8
Packing group:	II
Marine pollutant:	Marine Pollutant
EmS:	F-A S-B

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
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:

Propan-2-ol	67-63-0	>= 10 - < 20 %

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

Propan-2-ol	67-63-0	>= 10 - < 20 %

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

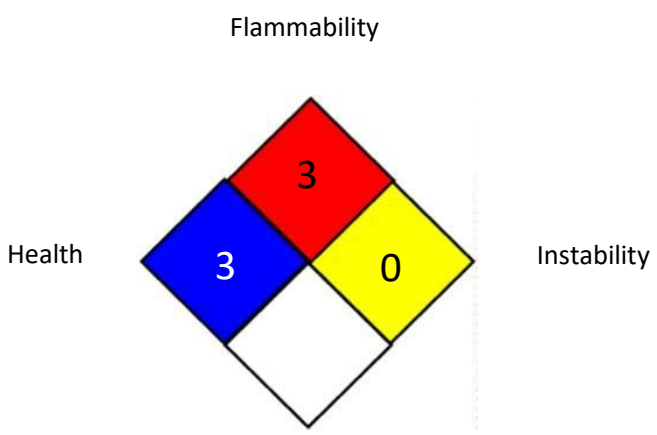
The components of this product are reported in the following inventories:

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

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / 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 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
Observe all necessary precautions for handling flammable substances. Keep away from sources of heat and ignition. Smoking should be prohibited where material is being handled. Electrical grounding of equipment is required.
For additional information, contact Product Stewardship.

Revision Date : 02/08/2024

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