

SAFETY DATA SHEET

SaniClean

SECTION 1: IDENTIFICATION

1.1. Product identifier

Trade name: SaniClean

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture: Cleaning product Uses advised against: None known.

1.3. Details of the supplier of the safety data sheet

Company and address: Five Star Chemicals & Supply Inc.

6870 W. 52nd Ave

Suite #205

Arvada, CO 80002

USA

+1 (303) 287-0186

www.fivestarchemicals.com

Contact person: Customer support

E-mail: support@fivestarchemicals.com

SDS date: 6/22/2023

SDS Version: 2.0

Date of previous version: 6/22/2023 (2.0)

1.4. Emergency telephone number

Infotrac +1 (352) 323-3500

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org) to get specific guidance for your case

See also section 4 "First aid measures".

SECTION 2: HAZARD(S) IDENTIFICATION

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture

Acute Tox. 4; H302, Harmful if swallowed.

Skin Corr. 1B; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



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Signal word: Danger

Hazard statement(s): Harmful if swallowed. (H302)

Causes severe skin burns and eye damage.

(H314)

Precautionary statement(s):

General: -

Prevention: Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response: IF SWALLOWED: Call a POISON

CENTER/doctor if you feel unwell.

(P301+P312)

IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting. (P301+P330+P331)

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

. (P303+P361+P353)

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

(P305+P351+P338)

Immediately call a POISON CENTER/doctor.

(P310)

Storage:

Disposal: Dispose of contents/container in accordance

with local regulation. (P501)

Additional labelling: Not applicable.

2.3. Other hazards

Additional warnings: This mixture/product does not contain any

substances considered to meet the criteria

classifying them as PBT and/or vPvB.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Phosphoric acid	CAS No.: 7664-38-2	40-60%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318	
Isopropanol	CAS No.: 67-63-0	1-3%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
Decyldimethyloctylamm	CAS No.: 32426-11-2	<1%	Acute Tox. 4, H302	

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nium chloride		Skin Corr. 1B, H314	
Dimethyldioctylammoniu m chloride	CAS No.: 5538-94-3	Acute Tox. 3, H301 Acute Tox. 2, H310 Skin Corr. 1B, H314 Eye Dam. 1, H318	
Didecyldimethylammoniu m chloride	CAS No.: 7173-51-5	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318	

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

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SECTION 4: FIRST-AID MEASURES

4.1. Description of first aid measures

General information: If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give

immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or

other drink.

Inhalation: Upon breathing difficulties or irritation of the

respiratory tract: Bring the person into fresh

air and stay with him/her.

Skin contact: Flush exposed area with water for a long

time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital

for further advice on follow-up and

treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents

or thinners.

If skin irritation occurs: Get medical

advice/attention.

Eye contact: If in eyes: Flush eyes with plenty of water or

salt water (20-30 °C) for at least 30 minutes

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and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an

ambulance.

Not applicable. Burns:

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Ingestion:

Bring this safety data sheet or the label from this product.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fireextinguishing water to enter the sewage system and nearby surface waters. If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are: Carbon oxides (CO / CO2)

5.3. **Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste. See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material:Keep only in original packaging.Storage temperature:Dry, cool and well ventilatedIncompatible materials:Strong oxidizing agents

Bases

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Phosphoric acid

Short term exposure limit (STEL) (ACGIH TLV) (mg/m³): 3 Short term exposure limit (STEL) (NIOSH REL) (mg/m³): 3 Long term exposure limit (OSHA Table Z-1) (mg/m³): 1 Long term exposure limit (ACGIH TLV) (mg/m³): 1 Long term exposure limit (NIOSH REL) (mg/m³): 1

Isopropanol

Short term exposure limit (STEL) (ACGIH TLV) (ppm): 400 Short term exposure limit (STEL) (NIOSH REL) (ppm): 500 Long term exposure limit (OSHA Table Z-1) (mg/m³): 980 Long term exposure limit (OSHA Table Z-1) (ppm): 400

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Long term exposure limit (ACGIH TLV) (ppm): 200

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis

General recommendations: Smoking, drinking and consumption of food

is not allowed in the work area.

Exposure scenarios: There are no exposure scenarios

implemented for this product.

Exposure limits: Professional users are subjected to the

legally set maximum concentrations for occupational exposure. See occupational

hygiene limit values above.

Appropriate technical measures: The formation of vapours must be kept at a

minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Apply standard precautions during use of the

product. Avoid inhalation of vapours.

Hygiene measures: In between use of the product and at the end

of the working day all exposed areas of the body must be washed thoroughly. Always

wash hands, forearms and face.

Measures to avoid environmental exposure: Keep damming materials near the workplace.

If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally: Use only protective equipment with a

recognized certification mark, e.g. the UL

mark.

Respiratory Equipment:

Туре	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	R

Hand protection:

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Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Gloves	-	-	EN374	

Eye protection:

Туре	Standards	
Safety glasses	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Liquid Colour: Clear

Odour: Testing not relevant or not possible due to

the nature of the product.

Odour threshold (ppm): Testing not relevant or not possible due to

the nature of the product.

pH: 1.03

pH in solution: 1.95 (1%)

Density (g/cm³): Testing not relevant or not possible due to

the nature of the product.

Relative density: 1.4

Kinematic viscosity: Testing not relevant or not possible due to

the nature of the product.

Phase changes

Melting point (°F):

Testing not relevant or not possible due to

the nature of the product.

Boiling point (°F): Testing not relevant or not possible due to

the nature of the product.

Vapour pressure: Testing not relevant or not possible due to

the nature of the product.

Vapour density: Testing not relevant or not possible due to

the nature of the product.

Decomposition temperature (°F): Testing not relevant or not possible due to

the nature of the product.

Data on fire and explosion hazards

Flash point (°F): > 200

Flammability (°F): The material is not combustible.

Auto-ignition temperature (°F): Testing not relevant or not possible due to

the nature of the product.

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Explosion limits (% v/v): Testing not relevant or not possible due to

the nature of the product.

Solubility

Solubility in water: Testing not relevant or not possible due to

the nature of the product.

n-octanol/water coefficient: Testing not relevant or not possible due to

the nature of the product.

Solubility in fat (g/L): Testing not relevant or not possible due to

the nature of the product.

9.2. Other information

Other physical and chemical parameters: No data available.

Oxidizing properties: Testing not relevant or not possible due to

the nature of the product.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong oxidizing agents

Bases

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product/substance Phosphoric acid

Species: Rat
Route of exposure: Oral
Test: LD50
Result: 3500 mg/kg

Product/substance Phosphoric acid

Species: Rat Route of exposure: Dermal Test: LD50

Result: > 1260 mg/kg

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Product/substance

Species:

Isopropanol Rat

Route of exposure:

Oral

Test:

LD50

Result:

5050 mg/kg

Product/substance

Isopropanol Rabbit

Species: Route of exposure:

Dermal

Test: Result: LD50 4059 mg/kg

Product/substance

Species:

Isopropanol

Route of exposure:

Rat Inhalation

Test: Result: LC50 72.6 mg/L

Product/substance

Species:

Decyldimethyloctylammonium chloride

Route of exposure:

Dermal

Test:

LD50

Result:

3342 mg/kg

Product/substance

Species:

Decyldimethyloctylammonium chloride

Route of exposure: Test:

Oral LD50

Result:

238 mg/kg

Product/substance

Dimethyldioctylammonium chloride

Species:

Route of exposure: Test:

Dermal LD50

Result:

3342 mg/kg

Product/substance

Species:

Dimethyldioctylammonium chloride

Route of exposure:

Oral LD50

Test: Result:

238 mg/kg

Product/substance

Didecyldimethylammonium chloride

Species:

Rat

Route of exposure: Test:

Dermal LD50

Result:

> 1000 mg/kg

Product/substance

Didecyldimethylammonium chloride

Species:

Rat

Route of exposure:

Test:

Oral LD50

Result:

329 mg/kg

Harmful if swallowed.

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Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Other information

Isopropanol has been classified by IARC as a group 3 carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance Phosphoric acid

Species: Desmodesmus subspicatus

Duration: 48 hours
Test: EC50
Result: > 100 mg/L

Product/substance Isopropanol

Species: Fish, Pimephales promelas

Duration: 96 hours
Test: LC50
Result: 9640 mg/L

Product/substance Isopropanol

Species: Daphnia, Daphnia magna

Duration: 48 hours Test: EC50

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Result: 13299 mg/L

Product/substance Decyldimethyloctylammonium chloride

Species: Fish, Lepomis macrochirus

Duration: 96 hours
Test: LC50
Result: 0.032 mg/L

Product/substance

Species:

Duration:

Decyldimethyloctylammonium chloride Daphnia

Test: NOEC Result: 0.01 mg/L

Product/substance

stance Dimethyldioctylammonium chloride

Species: Fish, Lepomis macrochirus

Duration: 96 hours
Test: LC50
Result: 0.032 mg/L

Product/substance

Species:

Daphnia

Duration:

Test: NOEC Result: 0.01 mg/L

Product/substance

Didecyldimethylammonium chloride

Dimethyldioctylammonium chloride

Species: Algae
Duration: 72 hours
Test: EC50
Result: 0.062 mg/L

Product/substance D

Didecyldimethylammonium chloride

Species: Daphnia
Duration: 48 hours
Test: LC50
Result: 0.057 mg/L

Product/substance

Didecyldimethylammonium chloride

Species: Daphnia
Duration: 21 days
Test: NOEC
Result: 0.021 mg/L

Product/substance Didecyldimethylammonium chloride

Species: Fish, Danio rerio

Duration: 96 hours
Test: LC50
Result: 0.97 mg/L

Product/substance

Didecyldimethylammonium chloride

Species: Fish, Lepomis macrochirus

Duration: 96 hours
Test: LC50
Result: 0.032 mg/L

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Product/substance Didecyldimethylammonium chloride

Species: Daphnia

Duration:

Test: Result: NOEC 0.01 mg/L

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)

None of the components are listed

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*		Other information:
DOT	UN1805	PHOSPHORIC ACID, SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C1	III	No	Limited quantities: 5 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1805	PHOSPHORIC ACID, SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C1	III	No	Limited quantities: 5 L EmS: F-A S-B See below for additional information.

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	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	Other information:
IATA	UN1805	PHOSPHORIC ACID, SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C1	III	See below for additional information.

^{*} Packing group

Additional information

ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. U.S. Federal regulations

TSCA: Phosphoric acid is listed in the non-

confidential portion

Isopropanol is listed in the non-confidential

portion

Decyldimethyloctylammonium chloride is

listed in the non-confidential portion

Dimethyldioctylammonium chloride is listed

in the non-confidential portion

Didecyldimethylammonium chloride is listed

in the non-confidential portion

Clean Air Act: None of the components are listed

EPCRA Section 302: None of the components are listed EPCRA Section 304: None of the components are listed

EPCRA section 313: Isopropanol is listed

CERCLA: Phosphoric acid is regulated with a

Reportable Quantity (RQ) of: 5000 pounds

State regulations

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^{**} Environmental hazards



California / Prop. 65: None of the components are listed

Massachusetts / Right To Know Act: Phosphoric acid is listed

Isopropanol is listed

New Jersey / Right To Know Act:

Phosphoric acid / Substance number: 1516
Phosphoric acid is on the Special Health

Hazard Substance List

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Isopropanol / Substance number: 1076 Isopropanol is on the Special Health Hazard

Substance List

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New York / Right To Know Act: Phosphoric acid is listed

Phosphoric acid is regulated with a Treshold Reporting Quantity (TRQ) of: 100 pounds

Isopropanol is listed

Isopropanol is regulated with a Treshold Reporting Quantity (TRQ) of: 0 pounds

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Pennsylvania / Right To Know Act: Phosphoric acid is listed

Phosphoric acid is hazardous to the

environment (E)

Isopropanol is listed

Isopropanol is hazardous to the environment

(E)

15.4. Restrictions for application

Restricted to professional users.

15.5. Demands for specific education

No specific requirements.

15.6. Additional information

Not applicable.

15.7. Chemical safety assessment

No

15.8. Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H225, Highly flammable liquid and vapour.

H290, May be corrosive to metals.

H301, Toxic if swallowed.

H302, Harmful if swallowed.

H310, Fatal in contact with skin.

H314, Causes severe skin burns and eye damage.

H318, Causes serious eye damage.



H319, Causes serious eye irritation.

H336, May cause drowsiness or dizziness.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

▼ The safety data sheet is validated by

PurposeBuilt Brands Regulatory Team

Other



A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products. It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification. Country-language: US-en