

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : **SPECO CLEAN AIR**

Restrictions on use : Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

Company : Speco Singapore Pte Ltd
 317, Outram Road,
 #01-40, Concorde Shopping Centre
 Singapore 169075
 Tel: (65) 6365 2833
 Fax: (65) 6365 2700
 Email: ben@speco.sg

Website : www.speco.sg

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Section: 2. HAZARDS IDENTIFICATION
GHS Classification

Flammable liquids : No hazard statement
 Acute toxicity (Oral) : Category 4
 Acute toxicity (Dermal) : Category 4
 Eye irritation : Category 4

GHS Label Element

Hazard pictograms : Not Applicable
 Signal Word : Not Applicable
 Other hazards : None known

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Speco Proprietary SilQuat Formulation	-	<2
Proprietary Blend Japanese Herb Extract	-	<5
Surfactant	6540-99-4	<1
Essential Oil (Orange Fragrance)	8008-57-9	<5
Essential Oil (Mint Fragrance)	8006-90-4	<5
Water	7732-18-5	>82

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Section: 4. FIRST AID MEASURES

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Get medical attention if symptoms occur.
- Protection of first-aiders : In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
- Notes to physician : Treat symptomatically.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

- General Fire Hazards** : Water based blend - Non Flammable
- Autoignition Temp** : None - Water based material
- Extinguishing Media** : Determined by surrounding material. In case of fire, use water fog, dry chemical, CO₂, or "alcohol" foam. Firefighter should attempt only by those who are adequately trained and equipped with proper protective equipment.
- Special Fire Fighting Procedures** : Spilled product on ground may be slippery.

Section: 6. ACCIDENTAL RELEASE MEASURES

- SPILL PROCEDURES** : Wear appropriate personal protective equipment before approaching spill site. For small spills, dilute with water to sewer if allowed by local and state regulations. If unable to wash product with water, absorb with inert material (sand or other approved material) and dispose of in accordance with applicable regulations.
- Waste Disposal** : Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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RCRA Status : If discarded in its purchased form, it is not a RCRA hazardous waste. It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product should be classified as a hazardous waste. (40CFR261.20-24).

Section: 7. HANDLING AND STORAGE

Storage : Keep in a tightly closed container, stored in a cool, and dry area. Protect against physical damage.

Handling : Wash hands thoroughly after handling.

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Speco Proprietary SilQuat Formulation	None	None	None	None
Proprietary Blend Japanese Herb Extract	None	None	None	None
Surfactant	6540-99	None	None	None
Essential Oil (Orange Fragrance)	8008-57-9	None	None	None
Essential Oil (Mint Fragrance)	8006-90-4	None	None	None
Water	7732-18-5	None	None	None

Eye Protection : Safety glasses, chemical goggles or face shields are recommended to safeguard against potential eye contact, irritation, or injury. Contact lenses should not be worn while working with chemicals.

Work / Hygienic / Maintenance Practices : A source of clean water should be available in the work area for flushing eyes. Do not eat or drink in the work area. Wash hands thoroughly after use.

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Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	: Slight hazy white
Boiling Point	: 212°F (100°C)
Freezing Point	: 32°F (0°C)
Odour	: Sweet citrus fragrance with a terpenic nuance
Flash point	: Non-flammable material
pH	: < 5
Upper Flame Limit	: Not available
Lower Flame Limit	: Not available
Specific Gravity	: 1.00 – 1.01
Solubility in Water	: Complete Miscible
Molecular Weight	: NA
Evaporation rate	: Similar to Water

Section: 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Possibility of hazardous Reactions	: No dangerous reaction known under conditions of normal use.
Incompatibility	: Avoid temperatures below 32 °F and above 120 °F.
Hazardous reactions	: Not expected to be Explosive, Self-Reactive, Self-Heating.

Section: 11. TOXICOLOGICAL INFORMATION

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. **ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. **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. **OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Potential Health Effects

Eyes	: Health injuries are not known or expected under normal use.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

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Experience with human exposure

Eye contact : No information available.
Skin contact : No symptoms known or expected.
Ingestion : No information available.
Inhalation : No symptoms known or expected.

Toxicity

Product

Acute oral toxicity : LD50 rat: >5,000 mg/kg
Test substance: Product
Acute inhalation toxicity : LC50 rat: 5.35 mg/l
Test substance: Product
Acute toxicity estimate: 28.48 mg/l
Exposure time: 4 h
Acute dermal toxicity : LD50 rat: >5,000 mg/kg
Test substance: Product
Skin corrosion/irritation : no data available
Serious eye damage/eye irritation : no data available
Respiratory or skin sensitization : no data available
Carcinogenicity : no data available
Reproductive effects : no data available
Germ cell mutagenicity : no data available
Teratogenicity : no data available
STOT - single exposure : no data available
STOT - repeated exposure : no data available

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : No specific information is available.

Product

Toxicity to fish : LC50 Turbot: 50 mg/l
Exposure time: 96 hrs
Test substance: Product

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LC50 Pimephales promelas (fathead minnow): 201 mg/l
Exposure time: 96 hrs
Test substance: Product

LC50 Inland Silverside: 14.57 mg/l
Exposure time: 96 hrs
Test substance: Product

LC50 Common Mummichog: 81 mg/l
Exposure time: 96 hrs
Test substance: Product

LC50 Pimephales promelas (fathead minnow): 316 mg/l
Exposure time: 96 hrs
Test substance: Product

LC50 Common Mummichog: 92 mg/l
Exposure time: 96 hrs
Test substance: Product

NOEC Turbot: 32 mg/l
Exposure time: 96 hrs
Test substance: Product

Toxicity to daphnia and other aquatic invertebrates : LC50 Acartia tonsa: 23 mg/l
Exposure time: 48 hrs
Test substance: Product

LC50 Mysid Shrimp (Mysidopsis bahia): 24.14 mg/l
Exposure time: 48 hrs
Test substance: Product

LC50 Artemia: 40 mg/l
Exposure time: 48 hrs
Test substance: Product

Toxicity to algae : EC50 Marine Algae (Skeletonema costatum): 9.4 mg/l
Exposure time: 72 hrs
Test substance: Product

Persistence and degradability

The organic portion of this preparation is expected to be readily biodegradable.

Bioaccumulative potential

Potential to bioaccumulate is low.

Other information

no data available.

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Section: 13. DISPOSAL CONSIDERATIONS

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Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labelling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION
: **HS Code: 3910.0000 (Silicones in primary forms)**

Air transport (IATA)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION
: **HS Code: 3910.0000 (Silicones in primary forms)**

Sea transport (IMDG/IMO)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION
: **HS Code: 3910.0000 (Silicones in primary forms)**

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Section: 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

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 311/312 Hazards : Acute Health Hazard
Fire Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313:

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL CHEMICAL CONTROL LAWS:

TOXIC SUBSTANCES CONTROL ACT (TSCA)

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

AUSTRALIA

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

CHINA

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

JAPAN

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

KOREA

All substances in this product comply with the Chemical Control Act (CCA) and are listed on the Existing Chemicals List (ECL)

NEW ZEALAND

All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

PHILIPPINES

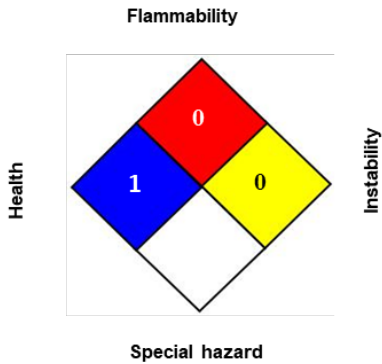
All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

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Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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Prepared By : Technical EHS Team

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.