SAFETY DATA SHEET

Revision Date 01-April-2024 **Revision Number** 4

1. Identification

Product Name **Bright Brushing Gold**

Cat No. : **12943**

Synonyms No information available

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Importer/Distributor
Fisher Scientific
112 Colonnade Road,
Ottawa, ON K2E 7L6,
Canada
Tel: 1-800-234-7437

Emergency Telephone Number
For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No. **US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

WHMIS 2015 Classification Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Flammable liquids	Category 3
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 2
Target Organs - Respiratory system.	
Aspiration Toxicity	Category 1

Label Elements

Signal Word
Danger

Hazard Statements

Flammable liquid and vapor
May be fatal if swallowed and enters airways
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
May cause respiratory irritation
Suspected of causing cancer
May cause damage to organs

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Do not breathe dust/fumes/gas/mist/vapours/spray
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Contaminated work clothing should not be allowed out of the workplace
Use non-sparking tools
Take action to prevent static discharges
Response
IF exposed or concerned: Get medical advice/attention
IF SWALLOWED: Immediately call a POISON CENTER/doctor
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If exposed or concerned: Call a POISON CENTER/ doctor
Do NOT induce vomiting
If skin irritation or rash occurs: Get medical advice/attention
If eye irritation persists: Get medical advice/attention
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
Take off contaminated clothing and wash it before reuse
Storage
Store locked up
Store in a well-ventilated place. Keep cool
Disposal
Dispose of contents/container to an approved waste disposal plant

Other Hazards
Toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Eucalyptus globulus, extract	84625-32-1	37.5
Proprietary resins/waxes	N/A	21.25
Proprietary organo-gold compound	N/A	8.0
Linalool	78-70-6	7.5

Clove, extract	84961-50-2	7.5
.alpha.-Pinene	80-56-8	7.5
o-Dichlorobenzene	95-50-1	2.5
Turpentine, oil	8006-64-2	2.5
Rosemary, extract	84604-14-8	2.5
Camphor	76-22-2	2.5
Xylenes (o-, m-, p- isomers)	1330-20-7	0.25
Isophorone	78-59-1	0.25
Benzene, 1-methoxy-4-(1-propenyl)-	104-46-1	0.25

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. Risk of serious damage to the lungs (by aspiration).

Ingestion Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Call a physician or poison control center immediately. If vomiting occurs naturally, have victim lean forward.

Most important symptoms/effects Difficulty in breathing. May cause allergic skin reaction. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Dry sand. Carbon dioxide (CO_2). Powder. Do not use water or foam. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media No information available

Flash Point 33 °C / 91.4 °F

Method - No information available

Autoignition Temperature No information available

Explosion Limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO_2). Hydrogen chloride. Gold oxide.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
3	2	0	-

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions Should not be released into the environment. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

Storage. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame. Incompatible Materials. Oxidizing agent.

8. Exposure controls / personal protection

Exposure Guidelines

Component	Alberta	British Columbia	Ontario TWAEV	Quebec	ACGIH TLV	OSHA PEL	NIOSH
.alpha.-Pinene	TWA: 20 ppm TWA: 111 mg/m³	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm TWA: 112 mg/m³	TWA: 20 ppm		
o-Dichlorobenzene	TWA: 25 ppm TWA: 150 mg/m³ STEL: 50 ppm STEL: 300 mg/m³	TWA: 25 ppm STEL: 50 ppm	TWA: 25 ppm STEL: 50 ppm	TWA: 25 ppm STEL: 50 ppm	TWA: 25 ppm STEL: 50 ppm	Ceiling: 50 ppm Ceiling: 300 mg/m³ (Vacated) Ceiling: 50 ppm (Vacated) Ceiling: 300 mg/m³	IDLH: 200 ppm Ceiling: 50 ppm Ceiling: 300 mg/m³
Turpentine, oil	TWA: 20 ppm TWA: 111 mg/m³	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm TWA: 112 mg/m³	TWA: 20 ppm	(Vacated) TWA: 100 ppm (Vacated) TWA: 560 mg/m³ TWA: 100 ppm TWA: 560 mg/m³	IDLH: 800 ppm TWA: 100 ppm TWA: 560 mg/m³
Camphor	TWA: 2 ppm TWA: 12 mg/m³ STEL: 3 ppm STEL: 19 mg/m³	TWA: 2 ppm STEL: 3 ppm	TWA: 2 ppm STEL: 3 ppm	TWA: 2 ppm TWA: 12 mg/m³ STEL: 3 ppm STEL: 19 mg/m³	TWA: 2 ppm STEL: 3 ppm	(Vacated) TWA: 2 mg/m³ TWA: 2 mg/m³	IDLH: 200 mg/m³ TWA: 2 mg/m³
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm TWA: 434 mg/m³ STEL: 150 ppm STEL: 651 mg/m³	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 434 mg/m³ STEL: 150 ppm STEL: 651 mg/m³	TWA: 20 ppm	(Vacated) TWA: 100 ppm (Vacated) TWA: 435 mg/m³ (Vacated) STEL: 150 ppm (Vacated) STEL: 655 mg/m³	

						TWA: 100 ppm TWA: 435 mg/m³	
Isophorone	Ceiling: 5 ppm Ceiling: 28 mg/m³	Ceiling: 5 ppm	CEV: 5 ppm	Ceiling: 5 ppm	Ceiling: 5 ppm	(Vacated) TWA: 4 ppm (Vacated) TWA: 23 mg/m³ TWA: 25 ppm TWA: 140 mg/m³	IDLH: 200 ppm TWA: 4 ppm TWA: 23 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment.
Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Hand Protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Glove material	Breakthrough time	Glove thickness	Glove comments
Nitrile rubber	See manufacturers recommendations	-	Splash protection only

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly
Recommended Filter type: Organic gases and vapours filter

When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls

Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Red brown
Odor	Pleasant

Odor Threshold	No information available
pH	No information available
Melting Point/Range	No data available
Boiling Point/Range	156 °C / 312.8 °F
Flash Point	33 °C / 91.4 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	<=1100 hPa @ 50 °C
Vapor Density	No information available
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Materials Oxidizing agent

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2), Hydrogen chloride, Gold oxide

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Oral LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Dermal LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Vapor LC50 Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Eucalyptus globulus, extract	Not listed	LD50 > 5000 mg/kg (Rabbit)	Not listed
Linalool	LD50 = 2790 mg/kg (Rat)	LD50 = 5610 mg/kg (Rabbit)	Not listed
Clove, extract	Not listed	LD50 = 1200 mg/kg (Rabbit)	Not listed
.alpha.-Pinene	300-2000 mg/kg (Rat)	> 5000 mg/kg (Rat)	Not listed
o-Dichlorobenzene	LD50 = 1516 mg/kg (Rat)	LD50 > 10 g/kg (Rabbit)	14,04 mg/L/4h (Rat)
Turpentine, oil	LD50 = 5760 mg/kg (Rat)	LD50 > 5010 mg/kg (Rabbit)	LC50 = 13.7 mg/L (Rat) 4 h
Rosemary, extract	Not listed	LD50 > 10 mL/kg (Rabbit)	Not listed
Camphor	1310 mg/kg (Mouse) >5 g/kg (Rat)	>2 g/kg (Rat)	Not listed
Xylenes (o-, m-, p- isomers)	LD50 = 3500 mg/kg (Rat)	LD50 > 4350 mg/kg (Rabbit)	29.08 mg/L [MOE Risk Assessment Vol.1, 2002]

Isophorone	LD50 = 1870 mg/kg (Rat)	LD50 = 1700 mg/kg (Rat)	LC50 = 7 mg/L (Rat) 4 h
Benzene, 1-methoxy-4-(1-propenyl)-	LD50 = 2090 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Eucalyptus globulus, extract	84625-32-1	Not listed	Not listed	Not listed	Not listed	Not listed
Proprietary resins/waxes	N/A	Not listed	Not listed	Not listed	Not listed	Not listed
Proprietary organo-gold compound	N/A	Not listed	Not listed	Not listed	Not listed	Not listed
Linalool	78-70-6	Not listed	Not listed	Not listed	Not listed	Not listed
Clove, extract	84961-50-2	Not listed	Not listed	Not listed	Not listed	Not listed
.alpha.-Pinene	80-56-8	Not listed	Not listed	Not listed	Not listed	Not listed
o-Dichlorobenzene	95-50-1	Not listed	Not listed	Not listed	Not listed	Not listed
Turpentine, oil	8006-64-2	Not listed	Not listed	Not listed	Not listed	Not listed
Rosemary, extract	84604-14-8	Not listed	Not listed	Not listed	Not listed	Not listed
Camphor	76-22-2	Not listed	Not listed	Not listed	Not listed	Not listed
Xylenes (o-, m-, p-isomers)	1330-20-7	Not listed	Not listed	Not listed	Not listed	Not listed
Isophorone	78-59-1	Group 2B	Not listed	A3	X	A3
Benzene, 1-methoxy-4-(1-propenyl)-	104-46-1	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen

Mexico - Occupational Exposure Limits - Carcinogens

ACGIH: (American Conference of Governmental Industrial Hygienists)
Mexico - Occupational Exposure Limits - Carcinogens
A1 - Confirmed Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Confirmed Animal Carcinogen
A4 - Not Classifiable as a Human Carcinogen
A5 - Not Suspected as a Human Carcinogen

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system. Contains a substance which is:. Very toxic to aquatic organisms.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Linalool	EC50: = 88.3 mg/L, 96h (Desmodesmus subspicatus)	LC50: = 27.8 mg/L, 96h static (Oncorhynchus mykiss)	EC50 = 1000 mg/L 30 min	EC50: = 20 mg/L, 48h (Daphnia magna)
.alpha.-Pinene	Not listed	LC50: = 0.28 mg/L, 96h static (Pimephales promelas)	Not listed	EC50 = 41 mg/L 48h
o-Dichlorobenzene	EC50: = 91.6 mg/L, 96h (Pseudokirchneriella subcapitata) EC50: 61.2 - 181 mg/L, 72h (Pseudokirchneriella subcapitata) EC50: = 2.2 mg/L, 96h static (Pseudokirchneriella subcapitata)	LC50: 4.8 - 6.6 mg/L, 96h static (Lepomis macrochirus) LC50: = 5.2 mg/L, 96h flow-through (Brachydanio rerio) LC50: 42.6 - 80.4 mg/L, 96h static (Pimephales promelas) LC50: 8.23 - 10.9 mg/L, 96h flow-through (Pimephales promelas) LC50: 1.44 - 1.73 mg/L, 96h flow-through (Oncorhynchus mykiss) LC50: = 5.8 mg/L, 96h static (Pimephales promelas)	EC50 = 4.76 mg/L 5 min EC50 = 4.98 mg/L 15 min EC50 = 5.99 mg/L 30 min	EC50: = 0.74 mg/L, 48h Static (Daphnia magna)
Xylenes (o-, m-, p- isomers)	Not listed	LC50: 30.26 - 40.75 mg/L, 96h static (Poecilia reticulata) LC50: = 780 mg/L, 96h semi-static (Cyprinus carpio) LC50: 23.53 - 29.97 mg/L, 96h static (Pimephales promelas) LC50: > 780 mg/L, 96h (Cyprinus carpio) LC50: 7.711 - 9.591 mg/L, 96h static (Lepomis macrochirus) LC50: = 19 mg/L, 96h (Lepomis macrochirus) LC50: 13.1 - 16.5 mg/L, 96h flow-through (Lepomis macrochirus) LC50: 13.5 - 17.3 mg/L, 96h (Oncorhynchus mykiss) LC50: 2.661 - 4.093 mg/L, 96h static (Oncorhynchus mykiss) LC50: = 13.4 mg/L, 96h flow-through (Pimephales promelas)	EC50 = 0.0084 mg/L 24 h	LC50: = 0.6 mg/L, 48h (Gammarus lacustris) EC50: = 3.82 mg/L, 48h (water flea)
Isophorone	EC50: 51.1 - 342 mg/L, 96h (Pseudokirchneriella subcapitata) EC50: = 475.4 mg/L, 72h (Desmodesmus	LC50: 132 - 159 mg/L, 96h flow-through (Pimephales promelas) LC50: 213 - 271 mg/L, 96h static (Pimephales	Not listed	EC50: = 117 mg/L, 48h (Daphnia magna)

	subspicatus)	promelas) LC50: 180 - 250 mg/L, 96h static (Lepomis macrochirus)		

Persistence and Degradability Immiscible with water May persist based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Linalool	2.9
.alpha.-Pinene	4.1
o-Dichlorobenzene	3.433
Camphor	2.414
Xylenes (o-, m-, p- isomers)	3.15
Isophorone	1.67

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
o-Dichlorobenzene - 95-50-1	U070	-
Xylenes (o-, m-, p- isomers) - 1330-20-7	U239	-

14. Transport information

DOT

UN-No UN1993
Proper Shipping Name Flammable liquid, n.o.s.
Technical Name (Dinkum oil, alpha-PINENE)
Hazard Class 3
Packing Group III

TDG

UN-No UN1993
Proper Shipping Name Flammable liquid, n.o.s.
Hazard Class 3
Packing Group III

IATA

UN-No UN1993
Proper Shipping Name Flammable liquid, n.o.s.
Hazard Class 3
Packing Group III

IMDG/IMO

UN-No UN1993
Proper Shipping Name Flammable liquid, n.o.s.
Hazard Class 3
Packing Group III

15. Regulatory information

International Inventories

Component	CAS-No	DSL	NDSL	TSCA	TSCA Inventory notification - Active-Inactive	EINECS	ELINCS	NLP
Eucalyptus globulus, extract	84625-32-1	X	-	-	-	283-406-2	-	-
Proprietary resins/waxes	N/A	-	-	-	-	-	-	-
Proprietary organo-gold compound	N/A	-	-	-	-	-	-	-
Linalool	78-70-6	X	-	X	ACTIVE	201-134-4	-	-

Clove, extract	84961-50-2	X	-	-	-	284-638-7	-	-
.alpha.-Pinene	80-56-8	X	-	X	ACTIVE	201-291-9	-	-
o-Dichlorobenzene	95-50-1	X	-	X	ACTIVE	202-425-9	-	-
Turpentine, oil	8006-64-2	X	-	X	ACTIVE	232-350-7	-	-
Rosemary, extract	84604-14-8	X	-	-	-	283-291-9	-	-
Camphor	76-22-2	X	-	X	ACTIVE	200-945-0	-	-
Xylenes (o-, m-, p- isomers)	1330-20-7	X	-	X	ACTIVE	215-535-7	-	-
Isophorone	78-59-1	X	-	X	ACTIVE	201-126-0	-	-
Benzene, 1-methoxy-4-(1-propenyl)-	104-46-1	X	-	X	ACTIVE	203-205-5	-	-

Component	CAS-No	IECSC	KECL	ENCS	ISHL	TCSI	AICS	NZIoC	PICCS
Eucalyptus globulus, extract	84625-32-1	X	KE-05-0630	-	-	X	X	X	X
Proprietary resins/waxes	N/A	-	-	-	-	-	-	-	-
Proprietary organo-gold compound	N/A	-	-	-	-	-	-	-	-
Linalool	78-70-6	X	KE-11592	X	X	X	X	X	X
Clove, extract	84961-50-2	X	-	-	-	X	X	X	X
.alpha.-Pinene	80-56-8	X	KE-34427	X	X	X	X	X	X
o-Dichlorobenzene	95-50-1	X	KE-10066	X	X	X	X	X	X
Turpentine, oil	8006-64-2	X	KE-35026	X	X	X	X	X	X
Rosemary, extract	84604-14-8	X	-	-	-	X	X	X	X
Camphor	76-22-2	X	KE-34423	X	X	X	X	X	X
Xylenes (o-, m-, p- isomers)	1330-20-7	X	KE-35427	X	X	X	X	X	X
Isophorone	78-59-1	X	KE-34467	X	X	X	X	X	X
Benzene, 1-methoxy-4-(1-propenyl)-	104-46-1	X	KE-23382	X	X	X	X	X	X

Legend:
X - Listed '-' - Not Listed
KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
IECSC - Chinese Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
ENCS - Japanese Existing and New Chemical Substances
AICS - Australian Inventory of Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

Component	Canada - National Pollutant Release Inventory (NPRI)	Canadian Environmental Protection Agency (CEPA) - List of Toxic Substances	Canada's Chemicals Management Plan (CEPA)
.alpha.-Pinene	Part 5, Individual Substances Part 4 Substance		
o-Dichlorobenzene	Part 1, Group A Substance Part 4 Substance		
Turpentine, oil	Part 4 Substance		
Xylenes (o-, m-, p- isomers)	Part 1, Group A Substance Part 5, Isomer Groups Part 4 Substance		
Isophorone	Part 4 Substance		Subject to Monitoring and Surveillance Activities

Legend NPRI - National Pollutant Release Inventory

Other International Regulations

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Linalool	-	Use restricted. See item 75. (see link for restriction details)	-
o-Dichlorobenzene	-	Use restricted. See item 75. (see link for restriction details)	-
Turpentine, oil	-	Use restricted. See item 75. (see link for restriction details)	-
Xylenes (o-, m-, p- isomers)	-	Use restricted. See item 75. (see link for restriction details)	-
Isophorone	-	Use restricted. See item 75. (see link for restriction details)	-

REACH links
https://echa.europa.eu/substances-restricted-under-reach

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

Component	CAS-No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Eucalyptus globulus, extract	84625-32-1	Not applicable	Not applicable	Not applicable	Not applicable
Proprietary resins/waxes	N/A	Not applicable	Not applicable	Not applicable	Not applicable
Proprietary organo-gold compound	N/A	Not applicable	Not applicable	Not applicable	Not applicable
Linalool	78-70-6	Listed	Not applicable	Not applicable	Not applicable
Clove, extract	84961-50-2	Not applicable	Not applicable	Not applicable	Not applicable
.alpha.-Pinene	80-56-8	Listed	Not applicable	Not applicable	Not applicable
o-Dichlorobenzene	95-50-1	Listed	Not applicable	Not applicable	Not applicable
Turpentine, oil	8006-64-2	Listed	Not applicable	Not applicable	Not applicable
Rosemary, extract	84604-14-8	Not applicable	Not applicable	Not applicable	Not applicable
Camphor	76-22-2	Not applicable	Not applicable	Not applicable	Not applicable
Xylenes (o-, m-, p- isomers)	1330-20-7	Listed	Not applicable	Not applicable	Not applicable
Isophorone	78-59-1	Listed	Not applicable	Not applicable	Not applicable
Benzene, 1-methoxy-4-(1-propenyl)-	104-46-1	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS-No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Eucalyptus globulus, extract	84625-32-1	Not applicable	Not applicable	Not applicable	Not applicable
Proprietary resins/waxes	N/A	Not applicable	Not applicable	Not applicable	Not applicable
Proprietary organo-gold compound	N/A	Not applicable	Not applicable	Not applicable	Not applicable
Linalool	78-70-6	Not applicable	Not applicable	Not applicable	Not applicable
Clove, extract	84961-50-2	Not applicable	Not applicable	Not applicable	Not applicable
.alpha.-Pinene	80-56-8	Not applicable	Not applicable	Not applicable	Not applicable
o-Dichlorobenzene	95-50-1	Not applicable	Not applicable	Not applicable	Annex I - Y45
Turpentine, oil	8006-64-2	Not applicable	Not applicable	Not applicable	Not applicable
Rosemary, extract	84604-14-8	Not applicable	Not applicable	Not applicable	Not applicable
Camphor	76-22-2	Not applicable	Not applicable	Not applicable	Not applicable
Xylenes (o-, m-, p- isomers)	1330-20-7	Not applicable	Not applicable	Not applicable	Annex I - Y42
Isophorone	78-59-1	Not applicable	Not applicable	Not applicable	Not applicable
Benzene, 1-methoxy-4-(1-propenyl)-	104-46-1	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By	Product Safety Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Revision Date	01-April-2024
Print Date	01-April-2024
Revision Summary	New emergency telephone response service provider.

Disclaimer

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End of SDS