Material Safety Data Sheet

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name/Identifier	Floor Wonder
Product Code	F-Wonder
Product Use	Formulated to clean and remove most stains, dirt, oil, etc. from various surfaces: marble, parquet, ceramic, painted finish, vinyl tile, terrazzo, wood, etc
Company Information	Vance Chemicals Pte Ltd No.24 Gul Lane Singapore 629418 +65 6863 0863 msds@mr-mckenic.com
Emergency Contact	+65 9299 8024

SECTION 2 HAZARDS INDENTIFICATION

GHS CLASSIFICATION

Health		Environmental		Physical
Skin irritation	Category 2	Aquatic acute toxicity	Category 2	Not classified
Eye irritation	Category 2			

GHS LABEL:

EU LABEL:

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Hazard Statements:

Code	Health hazard statements	Hazard class	Hazard category
H315	**Causes skin irritation**	Skin corrosion/irritation (chapter 3.2)	2
H320	**Causes eye irritation**	Eye damage/irritation(chapter 3.3)	2
H401	**Toxic to aquatic life**	Hazardous to the aquatic environment – acute hazard (chapter 4.1)	2

Precautionary Statements

Prevention:

Code	Prevention precautionary statements	Hazard class	Hazard category
P264	**Wash thoroughly after handling**	Skin corrosion/irritation (chapter 3.2)	2
		Eye damage/irritation(chapter 3.3)	2
P273	**Avoid release to the environment**	Hazardous to the aquatic environment – acute hazard (chapter 4.1)	2
P280	**Wear protective gloves.**	Skin corrosion/irritation (chapter 3.2)	2

Response:

Code	Response precautionary statements	Hazard class	Hazard category
P302+P352	**IF ON SKIN: Wash with plenty of soap and water**	Skin corrosion/irritation (chapter 3.2)	2
P305+P351 +P338	**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing**	Eye damage/irritation(chapter 3.3)	2
P321	**Specific treatment (see…on this label)**	Skin corrosion/irritation (chapter 3.2)	2
P337+P313	**If eye irritation persists: Get medical advice/attention.**	Eye damage/irritation(chapter 3.3)	2
P332+P313	**If skin irritation occurs: Get medical advice/attention.**	Skin corrosion/irritation (chapter 3.2)	2
P362	**Take off contaminated clothing and wash before use.**	Skin corrosion/irritation (chapter 3.2)	2

Disposal:

Code	Response precautionary statements	Hazard class	Hazard category
P501	**Dispose of contents/container to…**	Hazardous to the aquatic environment – acute hazard (chapter 4.1)	2

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SECTION 3 COMPOSITIONS / INFORMATION ON INGREDIENTS

Chemical Identity	CAS #	EINECS #	R Phrase	S Phrase	Weight %
Linear Alkylbenzene Sulfonic Acid	68584-22-5	271-528-9	R22, R34	S26, S36/37/39, S45	<5
Benzalkonium Chloride 80%	61789-71-7	263-080-8	R21/22, R34, R50	S36/37/39, S45, S57, S61	<1
Isopropyl alcohol	67-63-0	200-661-7	R11,R36,R67	S7,S16, S24/25, S26	<10
Ethanol	64-17-5	200-578-6	R11	S2, S7, S16	<5
Butyl Glycol Ether	111-76-2	203-905-0	R20/21/22, R36/38,	S2, S36/37, S46	<5

SECTION 4 FIRST AID MEASURES

Eye contact	Immediately flush eyes with large amounts of water for at least 15 minutes while holding the eyelids open. If redness, swelling, pain and blister occur, transport to the nearest medical facility for additional treatment.
Skin contact	Remove contaminated clothing. Flush exposed area with large amount of water for at least 15 minutes followed by washing with soap. If redness, swelling, pain and blister occur, transport to the nearest medical facility for additional treatment.
Inhalation	Remove to open area for fresh air. If rapid recovery does not occur, transport to the nearest medical facility for additional treatment.
Ingestion	If swallowed, do not induce vomiting; transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspirations.

SECTION 5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Non-flammable. Use water spray, fog or foam to cool fire exposed surfaces and to protect personnel.
Unsuitable Extinguishing Media	No restrictions
Specific Hazards Arising from the Chemical	Decomposition under fire conditions will generate carbon monoxide and may generate other potentially toxic vapors.
Protection for Fire-fighters	Evacuate personnel to safe areas. Intervention only by capable personnel who are trained and aware of the hazards of the product. In the event of fire, wear self-contained breathing apparatus. When intervention in close proximity wear acid resistant over suit. Clean contaminated surface thoroughly.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment	Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Keep away from open flames, hot surfaces and sources of ignition. Keep away from incompatible products. Isolate the area. Cover the spreading liquid with foam in order to slow down the evaporation. Ventilate the area.
Environmental Precautions	Prevent discharges into the environment (sewers, rivers, soils). Immediately notify the appropriate authorities in case of discharge.
Method for Cleaning Up & Containment	If possible, dam large quantities of liquid with sand or earth. Collect the product with suitable means. Place everything into a closed, labeled container compatible with the product. Flush with plenty of water. Prevent product from entering drains. Treat recovered material as described in the section "Disposal considerations".
Emergency Procedures	Shut off leaks, if possible without personal risks. Remove all possible ignitions in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth or other appropriate barriers. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas indicator.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling: Use proper bonding and grounding (earthing) all equipment. Electrostatic discharge may cause fire. Prevent small spills and leakage to avoid slip hazard. Avoid contact with skin.

Conditions for Safe Storage: Keep container dry. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Storage temperature: Ambient
Storage/Transport Pressure: Atmospheric

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Linear Alkylbenzene Sulfonic Acid	Not Established	Not Established	Not Established	Not Established
Benzalkonium Chloride 80%	Not Established	Not Established	Not Established	Not Established
Isopropyl alcohol	200ppm	400ppm	400ppm	500ppm
Ethanol	1000ppm	Not Established	1800ppm	Not Established

Butyl Glycol Ether	20ppm	Not Established	50ppm	Not Established

Engineering Controls	Ensure adequate ventilation. Provide appropriate exhaust ventilation at machinery. Refer to protective measures listed in sections 7 and 8. Apply technical measures to comply with the occupational exposure limits.

Personal Protective Equipment (PPE):

Eye Protection	Eye protection is not required under normal conditions of use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.
Skin Protection	Apron/boots of neoprene if risk of splashing. For hand protection, use chemical resistant protective gloves such as Polyvinyl alcohol coated gloves.
Respiratory Protection	In the case of hazardous fumes, wear self contained breathing apparatus. Self-contained breathing apparatus in medium confinement/insufficient oxygen/in case of large uncontrolled emissions/in all circumstances when the mask and cartridge do not give adequate protection
Thermal hazards	NA

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light blue
Odour	Characteristic odour
Odour Threshold	NA
pH	7 - 9
Melting Point/ Freezing Point (°C)	Not determined
Initial boiling point and range (°C)	Not determined
Flash Point (°C) [According to ISO 3679, Closed Cup Testing]	No flash point detected
Evaporation Rate	Not determined
Flammability (solid, gas)	Not applicable
Vapour Pressure	Not determined
Upper/lower Flammability (Explosive) Limits:	Not determined
Vapour Density	Not determined

Relative Density	1.00 ± 0.03
Solubility in water	Soluble
Partition coefficient (N-Octanol/water)	Not determined
Auto-ignition Temperature (°C)	Not determined
Decomposition Temperature:	Not determined
Viscosity (mPa s)	Not determined

SECTION 10 STABILITY AND REACTIVITY

Reactivity/Incompatible materials	Strong acids. Strong bases. Strong oxidizers
Chemical Stability	Stable under ordinary conditions of use and storage.
Possibility of hazardous reactions	Not determined
Hazardous decomposition products	No decomposition if stored normally
Conditions to avoid	Exposure to elevated temperatures can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems. Avoid direct sunlight or ultraviolet sources.
Materials to avoid	Strong caustics and alkalis, strong oxidizers,

SECTION 11 TOXICOLOGICAL INFORMATION

Ingredient Name: Linear Alkylbenzene Sulfonic Acid

Effects on humans:
Eye contact
- May be corrosive to eyes. Symptoms including itching, burning, redness, tearing.

Skin contact
- May be corrosive to skin.

Inhalation
- May be moderately to severely irritating to the respiratory tract and mucous membranes.

Ingestion
- May result in moderately severe burns to mouth and esophagus with more severe burns and damage to the stomach.

Acute toxicity: Oral rat LD50: 1150mg/kg

Skin corrosion/irritation: Corrosive effect on skin and mucous membranes

Serious eye damage/irritation: Strong corrosive effect
Carcinogenicity: Not carcinogenic under IARC

Ingredient Name: Benzalkonium Chloride 80%
Effects on humans: Eye contact - Strong caustic effect Skin contact - Caustic effect on skin and mucous membrane Inhalation - Severe irritant. Effects from inhalation of dust or mist vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure. Ingestion - Severe irritant
Acute toxicity: Acute oral toxicity (LD50): 200-2000 mg/kg [Rat]. Acute dermal toxicity (LD50): Not established Acute gas Inhalation LC50: Not established
Skin corrosion/irritation: Corrosive to the skin.
Serious eye damage/irritation: Harmful in contact to eyes. May cause serious eye damage.
Carcinogenicity: Not carcinogenic under IARC

Ingredient Name: Isopropyl alcohol
Effects on humans: Eye contact - Can cause eye irritation Skin contact - May cause mild skin irritation Inhalation - Breathing in small amounts of this material during normal handling is not likely to cause harmful effects. However, breathing large amounts may be harmful and may affect the respiratory system and mucous membranes (irritation), behavior and brain (Central nervous system depression – headache, dizziness, drowsiness, and stupor, in coordination, unconsciousness, coma and possible death), peripheral nerve and sensation, blood, urinary system, and liver. Ingestion - Swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Swallowing large amounts may cause gastrointestinal tract irritation with nausea, vomiting and diarrhea, abdominal pain. It also may affect the urinary system, cardiovascular system, sense organs, behavior or central nervous system (somnolence, generally depressed activity, irritability, headache, dizziness, drowsiness), liver, and respiratory system (breathing difficulty).

Acute toxicity: LD50 Rat (oral) > 5045 mg/kg LD50 Rabbit (dermal) > 12800 mg/kg; LC50Rat, 4 hours (inhalation) > 72.6 mg/L/4H;
Skin corrosion/irritation: Not irritating to skin. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.
Serious eye damage/irritation: Irritation
Skin sensitisation: Not a skin sensitizer
Carcinogenicity: Not classifiable as to its carcinogenicity to humans, IARC category 3.
Specific target organ toxicity: May cause damage to the following organs: kidneys, liver, skin, central nervous system (CNS)
Chronic effects: May cause defatting of the skin and dermatitis and allergic reaction. May cause adverse reproductive effects based on animal data (studies). Special Remarks on Chronic Effects on Humans: May cause adverse reproductive/teratogenic effects (fertility, fetoxicity, developmental abnormalities (developmental toxin)) based on animal studies. Detected in maternal milk in human.

Ingredient Name: Ethanol
Effects on humans: Eye contact - Causes severe eye irritation. May cause painful sensitization to light. May cause chemical conjunctivitis and corneal damage. Skin contact - Causes moderate skin irritation. May cause cyanosis of the extremities. Inhalation - Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Causes respiratory tract irritation. May cause narcotic effects in high concentration. Vapours may cause dizziness or suffocation. Ingestion - May cause gastrointestinal irritation with nausea, vomiting and diarrhoea. May cause systemic toxicity with acidosis. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.
Acute toxicity: Inhalation, rat: LC50, 31352ppm/4H; Oral, mouse: LD50, 7032 mg/kg; Dermal, rabbit: LC50, 12800mg/kg
Skin corrosion/irritation: Irritating to skin
Serious eye damage/irritation: Irritating to eyes
Carcinogenicity: Not carcinogenic under IARC

Ingredient Name: Butyl Glycol Ether
Effects on humans: Eye contact - May cause eye irritation. Direct contact with the liquid or exposure to its vapours or mists may cause burning, tearing and redness. Skin contact - May cause skin irritation. Prolonged or repeated exposure to this material may cause redness, burning, drying and cracking of skin. Persons with pre-existing skin disorders may be more susceptible to the effects of this material. Inhalation - Breathing high concentrations of vapors or mists may cause: irritation to nose and throat. Signs of nervous system depression (e.g., drowsiness, dizziness, loss of coordination and fatigue.) Respiratory symptoms associated with pre-existing kung disorders (e.g., asthma-like conditions) may be aggravated by exposure to this material. Ingestion - Low order of toxicity. Irritating to mouth, throat and stomach. May cause gastric tract disorder and/or damage.
Acute toxicity: Acute Oral rat LD50: 470 mg/kg; Acute dermal rabbit LD50: 220 mg/kg; Acute Inhalation rat LC50: 450mg/l/4H
Skin corrosion/irritation: rabbit, slightly irritating; Draize Test
Serious eye damage/irritation: Rabbit, slightly irritating; Draize Test
Carcinogenicity: Not classifiable as to its carcinogenicity to humans, IARC category 3
Chronic effects: Overexposure by inhalation and/or dermal contact may result in damage to the blood and kidneys.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity	Acute Ecotoxicity Fishes, LC 50, 96 h, 108mg/l Crustaceans, Daphnia magna, EC 50, 48 h, <10mg/l
Bio accumulative Potential	Not expected to bioccumulate significantly
Presistence/ Degradability	Will inherently biodegrade
Mobility in soil	It will have high mobility in soil and potential to leach into groundwater. Upon release to the environment, the compound is expected to partition to and be transported in surface water and groundwater.

SECTION 13 DISPOSAL CONSIDERATIONS

Local legislation Dispose in compliance with local/federal and national regulations. It is recommended to contact the producer for

recycling/recovery. Or send the product to an authorized hazardous waste incinerator.
Container Disposal To avoid treatments, as far as possible, use dedicated containers. If not, rinse the empty containers with a low volatility hydrocarbon and treat the effluent in the same way as waste. Containers that cannot be cleaned must be treated as waste.

SECTION 14 TRANSPORT INFORMATION

Land (ADR)

UN number	Not regulated
UN Class	NA
Subsidiary risk	NA
Packing Group	NA
Proper shipping name	NA
HIN	NA

Sea (IMDG)

UN number	Not regulated
UN Class	NA
Subsidiary risk	NA
Packing Group	NA
Proper shipping name	NA
Marine pollutant	NA

Sea (Annex II of MARPOL 73/78 and the IBC Code)

Pollution category	NA
Ship type	NA
Product name	NA

Air (IATA)

UN number	Not regulated

UN Class	NA
Subsidiary risk	NA
Packing Group	NA
Proper shipping name	NA

Special precautions:

Before transportation, make sure the containers are tightly sealed and that there are no liquid or gas leaks.
When transporting containers, be sure that they are tightly fastened. An appropriate buffer material should be placed between them to prevent them from bumping each other and being damaged during transport.

SECTION 15 REGULATORY INFORMATION

EU Information

Risk Phrase:

R11	Highly flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R21/22	Harmful in contact with the skin and if swallowed
R22	Harmful if swallowed
R34	Causes burns
R36	Irritating to eyes
R36/38	Irritating to eyes and skin
R50	Very toxic to aquatic organisms
R67	Vapours may cause drowsiness and dizziness

Safety Phrase:

S2	Keep out of the reach of children
S7	Keep container tightly closed.
S16	Keep away from sources of ignition – No smoking
S24/25	Avoid contact with skin and eyes

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37	Wear suitable protective clothing and gloves
S36/37/39	Wear suitable protective clothing and gloves
S45	In case of accident or if you feel unwell seek medical advice immediately.
S46	If swallowed, seek medical advice immediately and show this container or label.
S57	Use appropriate containment to avoid environmental contamination
S61	Avoid release to the environment. Refer to special instructions/Safety data sheets.

USA Information

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA)

Ingredient	CAS #	CERCLA RQ	RCRA Code
Isopropyl Alcohol	67-63-0	-	-

Superfund Amendments and Reauthorization Act (SARA) Title III Information:
SARA Section 311/312 (40 CFR 370) Hazard Categories:

Ingredient	Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactivity Hazard
Isopropyl Alcohol	Yes	Yes	No	No	No
Ethanol	Yes	Yes	No	No	No
Butyl Glycol Ether	Yes	Yes	Yes	No	No

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372): Isopropyl Alcohol

Canada Information
WHMIS classification:
Isopropyl Alcohol
- B2 Flammable liquid
- D2B Toxic material causing other toxic effects

SECTION 16 OTHER INFORMATION

Department issuing date sheet: Vance Chemicals Quality Control and Laboratory
Original Issue date: 1st January 2010
Issue date: N.A
Revision date: 15th March 2011

Material Safety Data Sheet

This product is intended for use by skilled individuals at their own risk. The information, data and recommendations set forth herein are presented in good faith and are believed to be correct as of the date hereof. The company / manufacturer makes no representations as to the completeness or accuracy of the Information and disclaims responsibility for any reliance thereon. The information is provided upon the condition that the persons receiving will make their own determination as to its suitability for their purposes prior to use. Any use of the Information must be determined by the user to be in accordance with applicable Federal, state and local laws and regulations. In no event will the company / manufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance upon the Information.

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