

Apilac Wood Oil

ASIA PAINT SINGAPORE

Chemwatch: **5199-86** Version No: **2.1.1.1** Safety Data Sheet Chemwatch Hazard Alert Code: 3

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SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	Apilac Wood Oil
Synonyms	Not Available
Proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Other means of identification	Not Available

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

Relevant identified uses Use according to manufacturer's directions.

Details of the supplier of the safety data sheet

Registered company name	ASIA PAINT SINGAPORE
Address	20 Tuas Ave 8 639235 Singapore
Telephone	+65 65 463 955
Fax	+65 65 463 855
Website	www.asiapaintsingapore.com
Email	sales@asiapaintsingapore.com

Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

CHEMWATCH HAZARD RATINGS

-	Min	Max	
Flammability	3		
Toxicity	1		0 = Minimum
Body Contact	2		1 = Low
Reactivity	1 📕		3 = High
Chronic	0		4 = Extreme

Classification	Flammable Liquid Category 2, Skin Corrosion/Irritation Category 2, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Aspiration Hazard Category 1	
Label elements		
GHS label elements		
SIGNAL WORD	DANGER	
Hazard statement(s)		
H225	Highly flammable liquid and vapour	
H315	Causes skin irritation	

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H336	May cause drowsiness or dizziness
H304	May be fatal if swallowed and enters airways
Precautionary statement(s)	Prevention
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Precautionary statement(s) Disposal

P501 Dispose of c

Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
Not Available	40-50	vegetable triglyceride
8052-41-3.	20-30	white spirit
1330-20-7	1-5	xylene
8030-30-6.	2-4	turpentine substitute
Not Available	0.1-0.5	lead carboxylate
Not Available	0.1-1	fungicide

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.



Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

For acute or short term repeated exposures to xylene:

- Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of charcoal and cathartics is equivocal.
- Pulmonary absorption is rapid with about 60-65% retained at rest.
- Primary threat to life from ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 < 50 mm Hg or pCO2 > 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.

BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Sampling Time	Comments
m creatinine End of shift	
Last 4 hrs of shif	ft
	m creatinine End of shift Last 4 hrs of shi

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice for firefighters	
Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water course. Consider evacuation (or protect in place). Fight fire from a safe distance, with adequate cover. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control the fire and cool adjacent area. Avoid spraying water onto liquid pools. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
Fire/Explosion Hazard	Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat, flame and/or oxidisers. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include,: carbon dioxide (CO2), other pyrolysis products typical of burning organic material

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Control personal quantities with vermiculite or other absorbent material. Wipe up. Collect residues in a flammable waste container.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent by any means available, soillane from entering drains or water course.

	Consider evacuation (or protect in place).
	No smoking, naked lights or ignition sources.
	Increase ventilation.
	Stop leak if safe to do so.
	Water spray or fog may be used to disperse /absorb vapour.
	Contain spill with sand, earth or vermiculite.
	 Use only spark-free shovels and explosion proof equipment.
	Collect recoverable product into labelled containers for recycling.
	Absorb remaining product with sand, earth or vermiculite.
	 Collect solid residues and seal in labelled drums for disposal.
	Wash area and prevent runoff into drains.
	If contamination of drains or waterways occurs, advise emergency services.
SECTION 7 HANDLING	AND STORAGE
Precautions for safe hand	lling
	The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is
	considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A
	number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid.
	Containers, even those that have been emptied, may contain explosive vapours.
	Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
	DO NOT allow clothing wet with material to stay in contact with skin
	Avoid all personal contact, including inhalation.
	Wear protective detaining when rick of exposure accurs

vvear protective clothing when risk of exposure occurs.	
Use in a well-ventilated area.	
Prevent concentration in hollows and sumps.	
DO NOT enter confined spaces until atmosphere has been checked.	
Avoid smoking, naked lights, heat or ignition sources.	
Safe handling When handling, DO NOT eat, drink or smoke.	
Vapour may ignite on pumping or pouring due to static electricity.	
DO NOT use plastic buckets.	
Earth and secure metal containers when dispensing or pouring product.	
Use spark-free tools when handling.	
Avoid contact with incompatible materials.	
Keep containers securely sealed.	
Avoid physical damage to containers.	
Always wash hands with soap and water after handling.	
Work clothes should be laundered separately.	
Use good occupational work practice.	
Observe manufacturer's storage and handling recommendations contained within this SDS.	
Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.	
Store in original containers in approved flame-proof area.	
No smoking, naked lights, heat or janition sources.	
DO NOT store in pits, depressions, basements or areas where vapours may be trapped.	
Other information Keep containers securely sealed.	
Store away from incompatible materials in a cool, dry well ventilated area.	
Protect containers against physical damage and check regularly for leaks.	
Observe manufacturer's storage and handling recommendations contained within this SDS.	

Conditions for safe storage, including any incompatibilities

Suitable container	Packing as supplied by manufacturer. Plastic containers may only be used if approved for flammable liquid. Check that containers are clearly labelled and free from leaks. 20L, 5L can.
Storage incompatibility	 Xylenes: may ignite or explode in contact with strong oxidisers, 1,3-dichloro-5,5-dimethylhydantoin, uranium fluoride attack some plastics, rubber and coatings may generate electrostatic charges on flow or agitation due to low conductivity. Vigorous reactions, sometimes amounting to explosions, can result from the contact between aromatic rings and strong oxidising agents. Aromatics can react exothermically with bases and with diazo compounds. For alkyl aromatics: The alkyl side chain of aromatic rings can undergo oxidation by several mechanisms. The most common and dominant one is the attack by oxidation at benzylic carbon as the intermediate formed is stabilised by resonance structure of the ring. Following reaction with oxygen and under the influence of sunlight, a hydroperoxide at the alpha-position to the aromatic ring, is the primary oxidation product formed (provided a hydrogen atom is initially available at this position) - this product is often short-lived but may be stable dependent on the nature of the aromatic substitution; a secondary C-H bond is more easily attacked than a primary C-H bond whilst a tertiary C-H bond is even more susceptible to attack by oxygen Monoalkylbenzenes may subsequently form monocarboxylic acids; alkyl naphthalenes mainly produce the corresponding naphthalene carboxylic acids. Oxidation in the presence of transition metal salts not only accelerates but also selectively decomposes the hydroperoxides. Hock-rearrangement by the influence of strong acids converts the hydroperoxides to hemiacetals. Peresters formed from the hydroperoxides undergo Criegee rearrangement easily. Alkali metals accelerate the oxidation while CO2 as co-oxidant enhances the selectivity. Microwave conditions give improved yields of the oxidation produc

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Singapore Permissible Exposure Limits of Toxic Substances	white spirit	Naphtha	1370 mg/m3 / 300 ppm	Not Available	Not Available	Not Available
Singapore Permissible Exposure Limits of Toxic Substances	white spirit	Stoddard solvent	525 mg/m3 / 100 ppm	Not Available	Not Available	Not Available
Singapore Permissible Exposure Limits of Toxic Substances	xylene	Xylene	434 mg/m3 / 100 ppm	651 mg/m3 / 150 ppm	Not Available	Not Available
Singapore Permissible Exposure Limits of Toxic Substances	turpentine substitute	Naphtha	1370 mg/m3 / 300 ppm	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
white spirit	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	171 ppm	171 ppm	570 ppm	
white spirit	Solvent naphtha, petroleum, medium aliphatic; (Mineral spirits, naphtha)		0.32 mg/m3	3.5 mg/m3	21 mg/m3
white spirit	Rubber solvent; (Naphtha (petroleum) light aliphatic)		264 ppm	1700 ppm	10000 ppm
white spirit	Petroleum distillates; (Petroleum crude oil)		87.5 ppm	450 ppm	10000 ppm
white spirit	Naphtha (coal tar); (Naphtha [petroleum] light aliphatic; Aliphatic naphtha)	300 ppm	1700 ppm	10000 ppm
white spirit	Petroleum spirits; (VM & P Naphtha, Ligroine, Paint solvent)		75 ppm	400 ppm	400 ppm
white spirit	Mineral oil, white	15 mg/m3	82 mg/m3	490 mg/m3	
white spirit	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzen	100 ppm	350 ppm	29500 ppm	
xylene	Xylenes		Not Available	Not Available	Not Available
turpentine substitute	Naphtha (coal tar); (Naphtha [petroleum] light aliphatic; Aliphatic naphtha)		300 ppm	1700 ppm	10000 ppm
Ingradiant	Original IDLH	Povisod IDI H			
Ingredient	Original IDEN	Kevised IDLIT			
vegetable triglyceride	Not Available	Not Available			
white spirit	29,500 mg/m3 / 10,000 ppm / 10,000 [LEL] ppm 20,000 mg/m3 / 1,100 [LEL] ppm / 1,000 [LEL] ppm				
xylene	1,000 ppm 900 ppm				
turpentine substitute	10,000 [LEL] ppm 1,000 [LEL] ppm				
lead carboxylate	Not Available Not Available				
fungicide	Not Available	Not Available			

Exposure controls

	Engineering controls are used to remove a hazard or place a barrier between the worker and the ha effective in protecting workers and will typically be independent of worker interactions to provide this The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the	zard. Well-designed engineering controls ca high level of protection. e risk.	n be highly	
	Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed the particular process and chemical or contaminant in use.	the worker and ventilation that strategically properly. The design of a ventilation system	"adds" and must match	
	Employers may need to use multiple types of controls to prevent employee overexposure.			
	For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant.			
	required to effectively remove the contaminant.		-	
	Type of Contaminant:		Air Speed:	
Appropriate engineering	solvent, vapours, degreasing etc., evaporating from tank (in still air).		0.25-0.5 m/s (50-100 f/min.)	
Appropriate engineering controls	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)		0.5-1 m/s (100-200 f/min.)	
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)		1-2.5 m/s (200-500 f/min.)	
	Within each range the appropriate value depends on:			
	Lower end of the range	Upper end of the range		
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents		
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity		
	3: Intermittent, low production.	3: High production, heavy use		
	4: Large hood or large air mass in motion	4: Small hood-local control only		
	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple ex	traction pipe. Velocity generally decreases w	ith the square	

Continued...

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	of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.
Personal protection	
Eye and face protection	Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated gloves should be replaced. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
Body protection	See Other protection below
Other protection	Overalls. PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit. Ensure there is ready access to a safety shower. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets). Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of work to their homes and return.
Thermal hazards	Not Available

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

A	pilac	Wood	Oil
• •	pillao		U

Material	CPI
BUTYL	С
BUTYL/NEOPRENE	С
HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	С

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	Air-line*	A-2 P2	A-PAPR-2 P2 ^
up to 20 x ES	-	A-3 P2	-
20+ x ES	-	Air-line**	-

* - Continuous-flow; ** - Continuous-flow or positive pressure demand

^ - Full-face

 $\begin{array}{l} \mathsf{A}(\mathsf{All}\ \mathsf{classes}) = \mathsf{Organic}\ \mathsf{vapours},\ \mathsf{B}\ \mathsf{AUS}\ \mathsf{or}\ \mathsf{B1} = \mathsf{Acid}\ \mathsf{gasses},\ \mathsf{B2} = \mathsf{Acid}\ \mathsf{gas}\ \mathsf{or}\ \mathsf{hydrogen}\ \mathsf{cyanide}(\mathsf{HCN}),\ \mathsf{B3} = \mathsf{Acid}\ \mathsf{gas}\ \mathsf{or}\ \mathsf{hydrogen}\ \mathsf{cyanide}(\mathsf{HCN}),\ \mathsf{E} = \mathsf{Sulfur}\ \mathsf{dioxide}(\mathsf{SO2}),\ \mathsf{G} = \mathsf{Agricultural}\ \mathsf{chemicals},\ \mathsf{K} = \mathsf{Ammonia}(\mathsf{NH3}),\ \mathsf{Hg} = \mathsf{Mercury},\ \mathsf{NO} = \mathsf{Oxides}\ \mathsf{of}\ \mathsf{nitrogen},\ \mathsf{MB} = \mathsf{Methyl}\ \mathsf{bromide},\ \mathsf{AX} = \mathsf{Low}\ \mathsf{boiling}\ \mathsf{point}\ \mathsf{organic}\ \mathsf{compound}(\mathsf{blow}\ \mathsf{65}\ \mathsf{degC}) \\ \end{array}$

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TEFLON	С
VITON	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as

"feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear or coloured liquid; does not mix with water.		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhaling high concentrations of mixed hydrocarbons can cause narcosis, with nausea, vomiting and lightheadedness. Low molecular weight (C2-C12) hydrocarbons can irritate mucous membranes and cause incoordination, giddiness, nausea, vertigo, confusion, headache, appetite loss, drowsiness, tremors and stupor. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. Exposure to white spirit may cause nausea and vertigo.
Ingestion	Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous. Symptoms include a burning mouth and throat; larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, slow and shallow breathing, abdominal swelling, unconsciousness and convulsions.

	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. Aromatic hydrocarbons may produce sensitivity and redness of the skin. They are not likely to be absorbed into the body through the skin but branched species are more likely to.
Eye	There is some evidence to suggest that this material can cause eye irritation and damage in some persons. Direct eye contact with petroleum hydrocarbons can be painful, and the corneal epithelium may be temporarily damaged. Aromatic species can cause irritation and excessive tear secretion.
Chronic	There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There is some evidence from animal testing that exposure to this material may result in toxic effects to the unbom baby. Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin. Immersion of the hands and forearms in white spirits may quickly result in inflammation of the skin and follicles. Workers exposed to white spirit have reported nausea and vomiting and one worker has been reported to develop aplastic anaemia, bone marrow depression and this person later died from septicaemia. Exposure to the material for prolonged periods may cause physical defects in the developing embryo (teratogenesis). Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS]

	TOXICITY	IRRITATION
Apriac wood On	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: >1900 mg/kg ^[1]	Eye (human): 470 ppm/15m
	Dermal (rabbit) LD50: >1900 mg/kg ^[1]	Eye (rabbit): 500 mg/24h moderate
	Dermal (rabbit) LD50: >1900 mg/kg ^[1]	Nil reported
	Dermal (rabbit) LD50: >1900 mg/kg ^[1]	
	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	
	Dermal (rabbit) LD50: >3000 mg/kg ^[2]	
	dermal (rat) LD50: 28000 mg/kg*n ^[2]	
	Inhalation (rat) LC50: >1400 ppm/8H ^[2]	
white spirit	Inhalation (rat) LC50: 3400 ppm/4H ^[2]	
	Inhalation (rat) LC50: 61 mg/L/4H ^[2]	
	Oral (rat) LD50: >19650 mg/kgd ^[2]	
	Oral (rat) LD50: >4300 mg/kgd ^[2]	
	Oral (rat) LD50: >4500 mg/kg ^[1]	
	Oral (rat) LD50: >4500 mg/kg ^[1]	
	Oral (rat) LD50: >4500 mg/kg ^[1]	
	Oral (rat) LD50: >4500 mg/kg ^[1]	
	Oral (rat) LD50: >5000 mg/kg ^[2]	
	Oral (rat) LD50: >5000 mg/kg ^[1]	
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >1700 mg/kg ^[2]	Eye (human): 200 ppm irritant
xylene	Inhalation (rat) LC50: 5000 ppm/4h ^[2]	Eye (rabbit): 5 mg/24h SEVERE
	Oral (rat) LD50: 4300 mg/kgt ^[2]	Eye (rabbit): 87 mg mild
		Skin (rabbit):500 mg/24h moderate
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >3000 mg/kg ^[2]	Not Available
turpentine substitute	Inhalation (rat) LC50: 61 mg/L/4H ^[2]	
	Oral (rat) LD50: >5000 mg/kg ^[2]	
Legend:	Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. extracted from RTECS - Register of Toxic Effect of chemical Substances	Value obtained from manufacturer's SDS. Unless otherwise specified data
	for petroleum:	
WHITE SPIRIT	This product contains benzene which is known to cause acute myeloid leukaemia	and n-hexane which has been shown to metabolize to compounds which are
	This product contains toluene. There are indications from animal studies that pro	longed exposure to high concentrations of toluene may lead to hearing loss.

	This product contains ethyl benzene and naphthalene from Carcinogenicity: Inhalation exposure to mice causes liver turnor turnours which are not considered relevant to humans. Mutagenicity: There is a large database of mutagenicity studie predominantly negative results. All in vivo studies in animals and results in mutagenicity assays. Reproductive Toxicity: Repeated exposure of pregnant rats to effects, such as lower birth weight and developmental neurotoxic vapour condensate, no adverse effects on the foetus were observ. Human Effects: Prolonged/ repeated contact may cause defat and penetration by other materials. Lifetime exposure of rodents to gasoline produces carcinogenic male rats as a consequence of accumulation of the alpha2-mic accumulation represents lysosomal overload and leads to chror tubules and necrosis. A sustained regenerative proliferation occ alpha2-microglobulin is produced under the influence of hormor white spirit, as CAS RN 8052-41-3	which there is evidence of tumour ours, which are not considered releva as on gasoline and gasoline blending recent studies in exposed humans (e b high concentrations of toluene (arou ity, on the foetus. However, in a two- red. ting of the skin which can lead to der sity although the relevance to human groglobulin protein in hyaline droplets hic renal tubular cell degeneration, ar urs in epithelial cells with subsequer hal controls in male rats but not in fe	s in rodents Int to humans. Inhalation exposure to rats causes kidney g streams, which use a wide variety of endpoints and give e.g. petrol service station attendants) have shown negative and or exceeding 1000 ppm) can cause developmental generation reproductive study in rats exposed to gasoline matitis and may make the skin more susceptible to irritation s has been questioned. Gasoline induces kidney cancer in . in the male (but not female) rat kidney. Such abnormal ccumulation of cell debris, mineralisation of renal medullary it neoplastic transformation with continued exposure. The males and, more importantly, not in humans.
XYLENE	The material may produce severe irritation to the eye causing pro- conjunctivitis. The material may cause skin irritation after prolonged or repeate scaling and thickening of the skin. The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in an Reproductive effector in rats	onounced inflammation. Repeated or ed exposure and may produce on c irmal testing.	prolonged exposure to irritants may produce
TURPENTINE SUBSTITUTE	for petroleum: This product contains benzene which is known to cause acute myeloid leukaemia and n-hexane which has been shown to metabolize to compounds which are neuropatric. This product contains toluene. There are indications from animal studies that prolonged exposure to high concentrations of toluene may lead to hearing loss. This product contains ethyl benzene and naphthalene from which there is evidence of tumours in rodents Carcinogenicity: Inhalation exposure to mic causes liver tumours, which are not considered relevant to humans. Inhalation exposure to rats causes kidney tumours which are not considered relevant to humans. Mutagenicity: There is a large database of mutagenicity studies on gasoline and gasoline blending streams, which use a wide variety of endpoints and give predominantly negative results. All in who studies in animals and recent studies in exposed humans (e.g. petrol service station attendants) have shown negative results in mutagenicity assays. Reproductive Toxicity: Repeated exposure of pregnant rats to high concentrations of toluene (around or exceeding 1000 ppm) can cause developmental effects, such as lower birth weight and developmental neurotoxicity, on the foetus. However, in a two-generation reproductive study in rats exposed to gasoline vapour condensate, no adverse effects on the foetus were observed. Human Effects: Prolonged' repeated contact may cause defatting of the skin which can lead to dermatitis and may make the skin more susceptible to irritation and penetration by other materials. Lifetime exposure of rodents to gasoline produces carcinogenicity although the relevance to humans has been questioned. Gasoline induces kidney cancer in male rats as a consequence of accumulation of the alpha2-microglobulin protein in hyaline droplets in the male (but not female) rat kidney. Such abnormal accumulation represents lysosomal overload and leads to chronic renal tubular cell degeneration, accumulation of cell adphas, mineralisating of the alpha2-microglobulin protein in hy		
Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	*	Reproductivity	0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	v
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	*

- Legend: X Data available but does not fill the criteria for classification Data required to make classification available

 - 🚫 Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity					
Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
white spirit	EC50	72	Algae or other aquatic plants	=13mg/L	1
white spirit	EC50	72	Algae or other aquatic plants	=30000mg/L	1
white spirit	NOEC	72	Algae or other aquatic plants	=0.1mg/L	1
white spirit	EC50	96	Algae or other aquatic plants	64mg/L	2

white spirit	EC50	96	Algae or other aquatic plants	64mg/L	2
white spirit	EC50	48	Crustacea	>100mg/L	1
white spirit	EC50	96	Algae or other aquatic plants	=450mg/L	1
white spirit	EC50	72	Algae or other aquatic plants	=6.5mg/L	1
white spirit	NOEC	72	Algae or other aquatic plants	<0.1mg/L	1
white spirit	BCF	96	Fish	0.2mg/L	4
white spirit	EC20	168	Crustacea	0.11mg/L	4
white spirit	EC50	48	Crustacea	0.058mg/L	4
white spirit	LC50	96	Fish	0.00746mg/L	4
white spirit	NOEC	168	Crustacea	<=0.05mg/L	4
white spirit	EC50	48	Crustacea	3.7mg/L	4
white spirit	LC50	96	Fish	8.8mg/L	4
white spirit	EC50	72	Algae or other aquatic plants	=6.5mg/L	1
white spirit	NOEC	72	Algae or other aquatic plants	<0.1mg/L	1
white spirit	EC50	96	Algae or other aquatic plants	64mg/L	2
white spirit	EC50	72	Algae or other aquatic plants	=6.5mg/L	1
white spirit	NOEC	72	Algae or other aquatic plants	<0.1mg/L	1
white spirit	LC50	96	Fish	>10000mg/L	2
xylene	EC50	24	Crustacea	0.711mg/L	4
xylene	LC50	96	Fish	0.0013404mg/L	4
xylene	EC50	48	Crustacea	>3.4mg/L	2
xylene	EC50	72	Algae or other aquatic plants	4.6mg/L	2
xylene	NOEC	73	Algae or other aquatic plants	0.44mg/L	2
turpentine substitute	EC50	48	Crustacea	3.7mg/L	4
turpentine substitute	LC50	96	Fish	8.8mg/L	4
turpentine substitute	EC50	72	Algae or other aquatic plants	=6.5mg/L	1
turpentine substitute	NOEC	72	Algae or other aquatic plants	<0.1mg/L	1
turpentine substitute	EC50	96	Algae or other aquatic plants	64mg/L	2
Logond:	Extracted from 1. IUCLI	D Toxicity Data 2. Europe ECHA Re	egistered Substances - Ecotoxicological Information	ation - Aquatic Toxicity 3. EPIWIN S	Suite V3.12 -

Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

For 1,2,4 - Trimethylbenzene:

Half-life (hr) air: 0.48-16;

Half-life (hr) H2O surface water: 0.24 -672;

Half-life (hr) H2O ground: 336-1344;

Half-life (hr) soil: 168-672;

Henry's Pa m3 /mol: 385 -627:

Bioaccumulation: not significant. 1,2,4-Trimethylbenzene is a volatile organic compound (VOC) substance.

Atmospheric Fate: 1,2,4-trimethylbenzene can contribute to the formation of photochemical smog in the presence of other VOCs. Degradation of 1,2,4-trimethylbenzene in the atmosphere occurs by reaction with hydroxyl radicals. Reaction also occurs with ozone but very slowly (half life 8820 days).

Aquatic Fate: 1,2,4-Trimethylbenzene volatilizes rapidly from surface waters with volatilization half-life from a model river calculated to be 3.4 hours. Biodegradation of 1,2,4-trimethylbenzene has been noted in both seawater and ground water. Various strains of Pseudomonas can biodegrade 1,2,4-trimethylbenzene.

Terrestrial Fate: 1,2,4-Trimethylbenzene also volatilizes from soils however, moderate adsorption to soils and sediments may occur. Volatilization is the major route of removal of 1,2,4trimethylbenzene from soils; although, biodegradation may also occur. Due to the high volatility of the chemical it is unlikely to accumulate in soil or surface water to toxic concentrations. Ecotoxicity: No significant bioaccumulation has been noted. 1,2,4-Trimethylbenzene is moderately toxic to fathead minnow and slightly toxic to dungeness crab. 1,2,4-Trimethylbenzene has moderate acute toxicity to aquatic organisms. No stress was observed in rainbow trout, sea lamprey and Daphnia magna water fleas. The high concentrations required to induce toxicity in laboratory animals are not likely to be reached in the environment.

For Aromatic Substances Series:

Environmental Fate:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

Atmospheric Fate: PAHs are 'semi-volatile substances' which can move between the atmosphere and the Earth's surface in repeated, temperature-driven cycles of deposition and volatilization. Terrestrial Fate: BTEX compounds have the potential to move through soil and contaminate ground water, and their vapors are highly flammable and explosive.

Ecotoxicity - Within an aromatic series, acute toxicity increases with increasing alkyl substitution on the aromatic nucleus. The order of most toxic to least in a study using grass shrimp and brown shrimp was dimethylnaphthalenes > methylnaphthalenes > naphthalenes. Anthrcene is a phototoxic PAH. UV light greatly increases the toxicity of anthracene to bluegill sunfish. Biological resources in strong sunlight are at more risk than those that are not. PAHs in general are more frequently associated with chronic risks. For C9 aromatics (typically trimethylbenzene - TMBs)

Chemicals in this category possess properties indicating a hazard for the environment (acute toxicity for fish, invertebrates, and algae from 1 to 10 mg/L). Category members are readily biodegradable, except 1,3,5-trimethylbenzene (CAS RN 108-67-8). Category members are not expected to be bioaccumulative.

In the air, category member constituents have the potential to rapidly degrade through indirect photolytic processes mediated primarily by hydroxyl radicals with calculated degradation half-lives ranging from 0.54 to 2.81 days (based on a 12-hour day and a hydroxyl radical concentration of 5x10+5). Aqueous photolysis and hydrolysis will not contribute to the transformation of category chemical constituents in aquatic environments because they are either poorly reactive or not susceptible to these reactions.

Results of the Mackay Level I environmental distribution model show that chemical constituents of C9 Aromatic Hydrocarbon Solvents Category members have the potential to partition to air (96.8 to 98.9 %), with a negligible amount partitioning to water (0.2 to 0.6%) and soil (0.9 to 2.7%). In comparison, Level III modeling indicates that category members partition primarily to soil (66.3 to 79.6%) and water (17.8 to 25.0%) compartments rather than air (2.4 to 8.4%) when an equal emission rate (1000 kg/hr) is assumed to each of the air, water, and soil compartments. When release (1000 kg/hr) is modeled only to either the air, water, or soil compartment, constituents are indicated in the modeling to partition primarily (>94%) to the compartment to which they are emitted as advection and degradation influence constituent concentration in compartments to which constituents are not released. Solvent naphtha, (pet.), light aromatic (CAS RN 6742-95-6), 1,2,4-trimethylbenzene (CAS RN 95-63-6), and 1-ethyl-3-methylbenzene (CAS RN 620-14-4) were determined to be readily biodegradable based on the studies that used the TG OECD 301F (the latter substance is used to characterize the potential biodegradability of the category member, ethylmethylbenzene (CAS RN 25550-14-5)). These three substances exceed 60% biodegradability of the category biodegradability. In comparison 1,3,5-trimethylbenzene (CAS RN 108-67-8) was not readily biodegradable. It achieved 42%

biodegradation after 28 days and 60% biodegradation after 39 days. The result for the multi-constituent substance (CAS RN 64742-95-6), a UVCB, characterizes the biodegradability of that substance as a whole, but it does not suggest that each constituent is equally biodegradable. As with all ready biodegradation test guidelines, the test system and study design used with these substances (OECD TG 301F) is not capable of distinguishing the relative contribution of the substances' constituents to the total biodegradation measured.

Based on Henry's Law constants (HLCs) representing a potential to volatilize from water that range from 590 to 1000 Pa-m3/mole, the potential to volatilize from surface waters for chemicals in the C9 Aromatic Hydrocarbon Solvents Category is expected to be high.

Based on the measured bioconcentration factors that range from 23 to 342 for 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene, the category members are not expected to be bioaccumulative. Ecotoxicity

Acute toxicity values used to characterize this category for fish (LL50; LC50) and invertebrates (EL50; EC50) range from 3.5 to 9.2 mg/L, based on measured data. For algae, one study for a category member (CAS RN 64742-95-6) resulted in a 72-hr EC50 of 2.4 mg/L (biomass) and 2.7 mg/L (growth rate) based on measured concentrations.

The algal 72-hour NOEC (no observed effect concentration) for biomass and growth rate is 1.3 mg/L, based on mean measured concentrations. A 21-day Daphnia magna reproduction study with 1,3,5-trimethylbenzene (CAS RN 108-67-8) resulted in a NOEC value of 0.4 mg/L, based on a minimum measured value.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
Bioaccumulative potential		
Ingredient	Bioaccumulation	
xylene	MEDIUM (BCF = 740)	

Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some
	areas, certain wastes must be tracked.
	A Hierarchy of Controls seems to be common - the user should investigate:
	▶ Reduction
	▶ Reuse
	► Recycling
	 Disposal (if all else fails)
	This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be
	possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type.
Product / Packaging	Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.
disposal	 DO NOT allow wash water from cleaning or process equipment to enter drains.
	It may be necessary to collect all wash water for treatment before disposal.
	In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
	Where in doubt contact the responsible authority.
	Recycle wherever possible.
	Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility
	can be identified.
	 Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after
	admixture with suitable combustible material)
	Decontaminate emoty containers. Observe all label safeguards until containers are cleaned and destroyed

SECTION 14 TRANSPORT INFORMATION

Labels Required

	PLAIMAAN LE 3
Marine Pollutant	NO
Land transport (UN)	
UN number	1263
Packing group	II
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Environmental hazard	Not Applicable
Transport hazard class(es)	Class 3 Subrisk Not Applicable
Special precautions for user	Special provisions 163; 367 Limited quantity 5 L

Air transport (ICAO-IATA / DGR)

UN number	1263			
Packing group	П			
UN proper shipping name	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base); Paint related material (including paint thinning or reducing compounds)			
Environmental hazard	Not Applicable			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	3 Not Applicable 3L		
Special precautions for user	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions Passenger and Cargo Limited Maximum Qty / Pack		A3 A72 A192 364 60 L 353 5 L Y341 1 L	

Sea transport (IMDG-Code / GGVSee)

UN number	1263		
Packing group	I		
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)		
Environmental hazard	Not Applicable		
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable		
Special precautions for user	EMS NumberF-E, S-ESpecial provisions163 367Limited Quantities5 L		

Transport in bulk according to Annex II of MARPOL and the IBC code

Source	Ingredient	Pollution Category
IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk	white spirit	Y
IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk	xylene	Y
IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk	turpentine substitute	Y

SECTION 15 REGULATORY INFORMATION

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

WHITE SPIRIT(8052-41-3.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	Singapore Permissible Exposure Limits of Toxic Substances	
Monographs		
XYLENE(1330-20-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS		
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	Singapore Permissible Exposure Limits of Toxic Substances	
Monographs		

TURPENTINE SUBSTITUTE(8030-30-6.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Singapore Permissible Exposure Limits of Toxic Substances

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (white spirit; xylene; turpentine substitute)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Y

Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC – TWA: Permissible Concentration-Time Weighted Average PC – STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit₀ IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL : No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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