# **GSB** Chemical Co.

Chemwatch: 5888156 Version No: 5.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: 09/04/2014 Print Date: 10/11/2015 Initial Date: Not Available S.GHS.AUS.EN

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

# **Product Identifier**

Product name	P Plate Cleaner	
Synonyms	ate rejuvenator, Product Code: H361	
Proper shipping name	RONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains naphtha petroleum, light aromatic solvent and gum turpentine)	
Other means of identification	Not Available	

Relevant identified uses	Cleaning of lithographic printing plates prior to storage. Applied via a cloth direct from the container.

# Details of the supplier of the safety data sheet

Registered company name	GSB Chemical Co.
Address	84 Camp Road Broadmeadows 3047 VIC Australia
Telephone	+61 3 9457 1125 (8am-5pm, Monday - Friday)
Fax	+61 3 9459 7978
Website	Not Available
Email	info@gsbchem.com.au

## Emergency telephone number

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Association / Organisation	Not Available
Emergency telephone numbers	+61 3 9457 1125 (8am-5pm, Monday - Friday)
Other emergency telephone numbers	13 11 26 (After hours)

# **SECTION 2 HAZARDS IDENTIFICATION**

## Classification of the substance or mixture

# HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

Poisons Schedule	S5		
GHS Classification <sup>[1]</sup>	Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 4, Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Skin Sensitizer Category 1, STOT - SE (Resp. Irr.) Category 3, STOT - SE (Narcosis) Category 3, Aspiration Hazard Category 1, Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2		
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI		
bel elements			
GHS label elements			
SIGNAL WORD	DANGER		
SIGNAL WORD zard statement(s)			
zard statement(s)			
zard statement(s) H302	Harmful if swallowed		
zard statement(s) H302 H312	Harmful if swallowed Harmful in contact with skin		
zard statement(s) H302 H312 H332	Harmful if swallowed Harmful in contact with skin Harmful if inhaled		
zard statement(s) H302 H312 H332 H315	Harmful if swallowed Harmful in contact with skin Harmful if inhaled Causes skin irritation		
zard statement(s) H302 H312 H332 H315 H319	Harmful if swallowed Harmful in contact with skin Harmful if inhaled Causes skin irritation Causes serious eye irritation		

H304	May be fatal if swallowed and enters ainways	
H401	H401 Toxic to aquatic life	
H411	Toxic to aquatic life with long lasting effects	
Precautionary statement(s) Prevention		
P271	Use only outdoors or in a well-ventilated area.	
P280	P280 Wear protective gloves/protective clothing/eye protection/face protection.	
P261	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
P270	P270 Do not eat, drink or smoke when using this product.	
P273	Avoid release to the environment.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

# Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
P331	Do NOT induce vomiting.	
P362	ke off contaminated clothing and wash before reuse.	
P363	ash contaminated clothing before reuse.	
P302+P352	N SKIN: Wash with plenty of soap and water.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P391	Collect spillage.	
P301+P312	+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.	
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P330	Rinse mouth.	

## Precautionary statement(s) Storage

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

# Precautionary statement(s) Disposal

P501 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
64742-95-6.	10-30	naphtha petroleum, light aromatic solvent
9005-90-7	10-30	gum turpentine
7664-38-2	<10	phosphoric acid
7732-18-5	30-60	water

# **SECTION 4 FIRST AID MEASURES**

## Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>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.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> </ul>
	Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: <ul> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>

CTP	Plate	Cleaner	
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If swallowed do NOT induce vomiting F If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Ingestion Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink Seek medical advice. Avoid giving milk or oils Avoid giving alcohol.

#### Indication of any immediate medical attention and special treatment needed

For acute or short term repeated exposures to petroleum distillates or related hydrocarbons:

- Primary threat to life, from pure petroleum distillate 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) 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.
- > Lavage is indicated in patients who require decontamination; ensure use of cuffed endotracheal tube in adult patients. [Ellenhom and Barceloux: Medical Toxicology]

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 phosphate salts intoxication:

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
- > Ingestion of large quantities of phosphate salts (over 1.0 grams for an adult) may cause an osmotic catharsis resulting in diarrhoea and probable abdominal cramps. Larger doses such as 4-8 grams will almost certainly cause these effects in everyone. In healthy individuals most of the ingested salt will be excreted in the faeces with the diarrhoea and, thus, not cause any systemic toxicity. Doses greater than 10 grams hypothetically may cause systemic toxicity.
- Treatment should take into consideration both anionic and cation portion of the molecule.
- + All phosphate salts, except calcium salts, have a hypothetical risk of hypocalcaemia, so calcium levels should be monitored.

Treat symptomatically.

## **SECTION 5 FIREFIGHTING MEASURES**

# Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider:

foam.

- dry chemical powder.
- carbon dioxide.

## Special hazards arising from the substrate or mixture

Fire Incompatibility	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	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>			
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Combustion products include; carbon dioxide (CO2) phosphorus oxides (POx) other pyrolysis products typical of burning organic materialCARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns. Foaming may cause overflow of containers and may result in possible fire.</li> </ul>			

# SECTION 6 ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Minor Spills	<ul> <li>Environmental hazard - contain spillage.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	Environmental hazard - contain spillage. CARE: Absorbent materials wetted with occluded oil must be moistened with water as they may auto-oxidize, become self heating and ignite. Some oils slowly oxidise when spread in a film and oil on cloths, mops, absorbents may autoxidise and generate heat, smoulder, ignite and burn. In the

	workplace oily rags should be collected and immersed in water.
	Moderate hazard.
	<ul> <li>Clear area of personnel and move upwind.</li> </ul>
	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> </ul>
	<ul> <li>Wear breathing apparatus plus protective gloves.</li> </ul>
	Prevent, by any means available, spillage from entering drains or water course.
	No smoking, naked lights or ignition sources.
	► Increase ventilation.
	Stop leak if safe to do so.
	Contain spill with sand, earth or vermiculite.
	<ul> <li>Collect recoverable product into labelled containers for recycling.</li> </ul>
	<ul> <li>Absorb remaining product with sand, earth or vermiculite.</li> </ul>
	<ul> <li>Collect solid residues and seal in labelled drums for disposal.</li> </ul>
	Wash area and prevent runoff into drains.
	If contamination of drains or waterways occurs, advise emergency services.
	quipment advice is contained in Section 8 of the SDS. DLING AND STORAGE
Precautions for sa	afe handling
	<ul> <li>Containers, even those that have been emptied, may contain explosive vapours.</li> </ul>
	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
	Electrostatic discharge may be generated during pumping - this may result in fire.
	Ensure electrical continuity by bonding and arguinding (apthing) electricity of all equipment

- Ensure electrical continuity by bonding and grounding (earthing) all equipment.
- ▶ Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec)
- Avoid splash filling. • Do NOT use compressed air for filling discharging or handling operations. Avoid all personal contact, including inhalation Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Safe handling Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke Keep containers securely sealed when not in use. 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. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Other information Store away from incompatible materials and foodstuff containers. 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

#### ▶ Lined metal can, lined metal pail/ can. Plastic pail. Polyliner drum Packing as recommended by manufacturer. Suitable container Check all containers are clearly labelled and free from leaks. Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. HAZARD Although anti-oxidants may be present, in the original formulation, these may deplete over time as they come into contact with air. Rags wet / soaked with unsaturated hydrocarbons / drying oils may auto-oxidise; generate heat and, in-time, smoulder and ignite. This is especially the case where oil-soaked materials are folded, bunched, compressed, or piled together - this allows the heat to accumulate or even accelerate the reaction Storage incompatibility Oily cleaning rags should be collected regularly and immersed in water, or spread to dry in safe-place away from direct sunlight or stored, immersed, in solvents in suitably closed containers. Avoid reaction with oxidising agents

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control parameters

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	gum turpentine	Turpentine (wood)	557 mg/m3 / 100 ppm	Not Available	Not Available	Sen
Australia Exposure Standards	phosphoric acid	Phosphoric acid	1 mg/m3	3 mg/m3	Not Available	Not Available

Ingredient	Material name			TEEL-2	TEEL-3
naphtha petroleum, light aromatic solvent	Aromatic hydrocarbon solvents; (High flash naphtha distillates; Solvent naphtha (petroleum), light aromatic)			34 ppm	410 ppm
gum turpentine	Turpentine		20 ppm	20 ppm	1500 ppm
phosphoric acid	Phosphoric acid		Not Available	Not Available	Not Available
Ingredient	Original IDLH Revised IDLH				
naphtha petroleum, light aromatic solvent	Not Available	Not Available	Not Available		
gum turpentine	1,500 ppm	800 ppm			
phosphoric acid	10,000 mg/m3 1,000 mg/m3				
water	Not Available	Not Available			

## Exposure controls

	effective in protecting workers and will typically The basic types of engineering controls are: Process controls which involve changing the v Enclosure and/or isolation of emission source "removes" air in the work environment. Ventile the particular process and chemical or contant Employers may need to use multiple types of con- Local exhaust ventilation usually required. If n Supplied-air type respirator may be required An approved self contained breathing apparal Provide adequate ventilation in warehouse or		high level of protection. the worker and ventilation that stra d properly. The design of a ventilation orrect fit is essential to obtain adeq ure adequate protection. e workplace possess varying "esca	tegically "adds" and on system must match uate protection.	
	Type of Contaminant:			Air Speed:	
	solvent, vapours, degreasing etc., evaporati	ng from tank (in still air).		0.25-0.5 m/s (50-100 f/min.)	
Appropriate engineering	aerosols, fumes from pouring operations, in acid fumes, pickling (released at low velocity	ermittent container filling, low speed conveyer transfer into zone of active generation)	s, welding, spray drift, plating	0.5-1 m/s (100-200 f/min.)	
controls	direct spray, spray painting in shallow booth zone of rapid air motion)	s, drum filling, conveyer loading, crusher dusts, gas di	scharge (active generation into	1-2.5 m/s (200-500 f/min.)	
	grinding, abrasive blasting, tumbling, high spain motion).	beed wheel generated dusts (released at high initial ve	locity into zone of very high rapid	2.5-10 m/s (500-2000 f/min.)	
	Within each range the appropriate value depen	nds on:			
	Lower end of the range		Upper end of the range		
	1: Room air currents minimal or favourable t	o 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 extraction pipe. Velocity generally decreases with the square 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	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>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]</li> </ul>				
Skin protection	See Hand protection below				
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> <li>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.</li> </ul>				

	<ul> <li>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.</li> <li>Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: <ul> <li>frequency and duration of contact,</li> <li>chemical resistance of glove material,</li> <li>glove thickness and</li> <li>dexterity</li> </ul> </li> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).</li> <li>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.</li> <li>When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 240 minutes 2161.10.1 or national equivalent) is recommended.</li> <li>Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.</li> <li>Contaminated gloves should be replaced.</li> <li>Gloves must only be wom on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C. apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>
Thermal hazards	Not Available

# Respiratory protection

Not Available

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance Pale blue viscous liquid with a pleasant odour; miscible with water.

Physical state	#00Liquid	Relative density (Water = 1)	0.9
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	2.5 approx	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	100-206	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)	> 45
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	#01miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	>1	VOC g/L	Not Available

# SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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 aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.

	Inhalation of vapours may cause drowsiness and dizziness. This may and vertigo. Inhalation hazard is increased at higher temperatures.	be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination,		
	Inhaling high concentrations of mixed hydrocarbons can cause narco	sis, with nausea, vomiting and lightheadedness. Low molecular weight (C2-C12) on, giddiness, nausea, vertigo, confusion, headache, appetite loss, drowsiness, tremors		
	Central nervous system (CNS) depression may include general disco reaction time, slurred speech and may progress to unconsciousness.	mfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed Serious poisonings may result in respiratory depression and may be fatal. with coughing and nausea, central nervous depression with headache and dizziness,		
	Inhalation of the vapour may cause choking, coughing, headache, we blueness, initially in the fingertips.	akness and dizziness, and with long term exposure, fluid accumulation in the lungs and		
	hallucinations, coma and death. Inhalation produces irritation of the non nausea, coughing, choking, chest pain, burning sensation in the mou	, convulsions, fast heartbeat, decreased breathing, confusion, loss of appetite, stupor, se and throat and with exposure for several hours there may be headache, dizziness, th, throat, gullet and stomach, vomiting, diarrhoea, painful urination with violet-like urine ugar appearing in the urine. The central nervous system is initially excited then depressed.		
	damage to the health of the individual.	nts indicate that ingestion of less than 150 gram may be fatal or may produce serious oduce a variety of effects. Pine oil monoterpenes, for example, produce stomach ng.		
Ingestion	Ingestion of large quantity of phosphoric acid may cause severe abdominal pains, thirst, acidaemia, difficult breathing, convulsions, collapse, shock and death. Although less hazardous than nitric and sulfuric acid, phosphoric acid has equal corrosive action upon ingestion. Death of an individual 19 days after ingestion of phosphoric acid was due to recurrent internal haemorrhage. Necrosis of the upper and lower digestive tract and pancreas was evident at autopsy. Considered an unlikely route of entry in commercial/industrial environments. The liquid may produce gastrointestinal discomfort and may be harmful if			
	swallowed. Skin contact with the material may be harmful; systemic effects may r This material can cause inflammation of the skin on contact in some p			
	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			
Skin Contact	Older pine oils will likely cause skin irritation. Older preparations of turpentine are said to contain high concentrations a substance said to be responsible for eczema. Workers in the chemical, rubber and welding industries have developed skin reactions with redness, rash, itching, blisters and burns. 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. Essential oils irritate the skin and redden it, causing at first warmth and smarting, followed by some local loss of sensation. They have been used to treat			
	chronic inflammatory conditions and to relieve neuralgia and rheuma This material can cause eye irritation and damage in some persons.	ic pain.		
Eye	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. Turpentine vapour irritates the eye at a concentration of 175ppm. Direct liquid contact may produce spasm of the eyelid, reddening of the eye, slight injury with erosion and burns to the surface of the eyeball.			
	There is some evidence that inhaling this product is more likely to can Constant or exposure over long periods to mixed hydrocarbons may and reduced liver and kidney function. Skin exposure may result in dry	eaction in some persons compared to the general population. mutations but there is not enough data to make an assessment. se some concern following repeated or long-term occupational exposure. use a sensitisation reaction in some persons compared to the general population. produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia,		
Chronic	Fragrance terpenes are generally easily oxidised in air. Non-oxidised limonene, linalool and caryophyllene turned out to be very weak sensitizers, however after oxidation limonene hydroperoxide and linalool hydroperoxide are strong sensitizers. Of the patients tested 2.6% showed positive reaction to oxidised limonene, 1.3% to oxidised linalool, 1.1% to linalool hydroperoxide, 0.5% to oxidised caryophyllene, while testing with caryophyllene oxide and oxidised myrcene resulted in few positive patch tests. 2/3 of the patients reacting positive to oxidised terpenes had fragrance related contact allergy and/or positive history for adverse reactions to fragrances.			
	As well as the hydroperoxides produced by linalol, limonene and delta-3-carene other oxidation and resinification effects progressively causes other fairly major changes in essential oil quality over time. Autoxidation of fragrance terpenes contributes greatly to fragrance allergy, which emphasizes the need of testing with compounds that patients are actually exposed to and not only with the ingredients originally applied in commercial formulations. Essential oils and isolates derived from the Pinacea family, including the genera Pinus and Abies, should only be used when the level of peroxides is kept to the lowest practicable level (less than 10 millimoles per litre).			
	d-Limonene may cause damage to and growths in the kidney. These growths can progress to cancer. Parenteral turpentine has been used to induce termination of pregnancy where it has induced inflammation of the abdominal cavity, necrosis of the hip and accumulation of fluid in the lungs. Repeated or prolonged exposure may produce brain wasting, behavioural changes, bone marrow and kidney injury.			
	ΤΟΧΙΟΙΤΥ	IRRITATION		
CTP Plate Cleaner	Not Available	Not Available		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
pophthe potential sure list of	Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	Nil reported		
naphtha petroleum, light aromatic solvent	Inhalation (rat) LC50: >3670 ppm/8 h * <sup>[2]</sup>			
	Oral (rat) LD50: >4500 mg/kg <sup>[1]</sup>			
	Ciar (rat) EDGO. >+000 mg/ng	1		

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	ΤΟΧΙĊΙΤΥ		IRRITATION		
gum turpentine	Oral (rat) LD50: 5760 mg/kg <sup>[2]</sup>		Eye (human): 175 ppm		
	ΤΟΧΙΟΙΤΥ		IRRITATION		
	Dermal (rabbit) LD50: >1260 mg/kg* <sup>[2]</sup>		[Monsanto]*		
phosphoric acid	Inhalation (rat) LC50: 0.0255 mg/L/4h <sup>[2]</sup>		Eye (rabbit): 11	9 mg - SEVERE	
	Oral (rat) LD50: 1.7 ml/100 g body weight <sup>[1]</sup>		Skin (rabbit):595 mg/24h - SEVERE		
	тохісіту		IRRITATION		
water	Oral (rat) LD50: >90000 mg/kg <sup>[2]</sup>		Not Available		
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substances extracted from RTECS - Register of Toxic Effect of chemical</li> </ol>		* Value obtained f	rom manufacturer's SDS. Unless otherwise specified data	
Acute Toxicity	✓	C	arcinogenicity	$\otimes$	
Skin Irritation/Corrosion	✓		Reproductivity	$\otimes$	
Serious Eye Damage/Irritation	✓ STOT - Si		ngle Exposure	*	
Respiratory or Skin sensitisation	✓	STOT - Repe		0	
Mutagenicity	$\otimes$	Aspi		✓	

Legend:

Data available but does not fill the criteria for classification
 Data required to make classification available

 $\bigcirc$  – Data Not Available to make classification

## **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

Ingredient	Endpoint	Test Duration	Species	Value	Source
naphtha petroleum, light aromatic solvent	EC50	48	Crustacea	6.14mg/L	1
naphtha petroleum, light aromatic solvent	EC50	72	Algae or other aquatic plants	3.290mg/L	1
naphtha petroleum, light aromatic solvent	EC10	72	Algae or other aquatic plants	1.130mg/L	1
gum turpentine	LC50	96	Fish	0.01mg/L	1
phosphoric acid	LC50	96	Fish	75.10mg/L	2
phosphoric acid	EC50	48	Crustacea	>1000mg/L	2
phosphoric acid	EC50	72	Algae or other aquatic plants	77.90mg/L	2
water	LC50	96	Fish	897.5200mg/L	3
water	EC50	96	Algae or other aquatic plants	8768.8740mg/L	3

On the basis of available evidence concerning either toxicity, persistence, potential to accumulate and or observed environmental fate and behaviour, the material may present a danger, immediate or long-term and /or delayed, to the structure and/ or functioning of natural ecosystems.

Toxic 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 Bicyclic Monoterpenes: Vapor Pressures: 0.24 to 0.55 kPa @ 25 C, (0.18-0.41 mm Hg), for alpha-and beta-pinene and 3.8 kPa, (2.8 mm Hg), for camphene @ 20 C; Log Kow: 4.83, (alpha-pinene).

Environmental Fate: Bicyclic monoterpenes are terpene hydrocarbons extracted from plants, mainly from the resins of Pinus tree species, (pine trees). The role bicyclic terpene hydrocarbons play in the biology of plants and animals is significant. Alpha-pinene, a principal member of this category, is one of the most common terpene hydrocarbons in nature. Combinations of terpenes, such as alpha-pinene and alpha-terpineol, have bactericidal activity while oxygenated terpene hydrocarbons formed from alpha-pinene, (e.g. verbenol and myrtenal), act as natural insect pheromones. These substances are also found in turpentine.

Atmospheric Fate: These substances are released as vapors which reside almost entirely in the atmospheric compartment. The main emissions of monoterpenes are from plants, particularly, tree species. Monoterpenes are reactive in the atmosphere, with a half-life of 0.1 days. Monoterpene degradation products have a relatively high aerosol yield, which makes transport of these substances over wide areas likely.

Aquatic Fate: These substances are not capable of being broken down in water. All are expected to be very stable in aqueous solution. When spilled, this product may act as oil, causing a film, sheen, emulsion, or sludge at or beneath the surface of a body of water.

Terrestrial Fate: Alpha-pinene has limited biodegradability. Very limited biodegradability has also been reported for 3-carene and for camphene, (less than 20%). The substances are expected to evaporate thus, limiting breakdown by oxygen using microbes. Alpha-pinene may undergo rapid, (8 days), and complete breakdown in microbial acclimated coniferous and hardwood watershed soils.

Ecotoxicity: Alpha-pinene, camphene, cis-pinanae, dihydropinene, and I-alpha-pinene are toxic to fish including fathead minnow, and zebrafish. Alpha-pinene and beta-pinene are toxic, on an acute basis, to Daphnia magna water fleas. Camphene and gum turpentine are not acutely toxic to Daphnia magna, at their solubility limits. Camphene, cis-pinane, dihydropinene, and I-alpha-pinene are toxic to aquatic plants, on an acute basis. Certain bacteria and fungus have the ability to degrade terpenes and thus decrease their toxicity to fish.

#### For Terpenes such as Limonene and Isoprene:

Atmospheric Fate: Contribute to aerosol and photochemical smog formation. When terpenes are introduced to the atmosphere, may either decrease ozone concentrations when oxides of nitrogen are low or, if emissions take place in polluted air (i.e. containing high concentrations of nitrogen oxides), leads to an increase in ozone concentrations. Lower terpenoids can react with unstable reactive gases and may act as precursors of photochemical smog therefore indirectly influencing community and ecosystem properties. The reactions of ozone with larger unsaturated compounds, such as the terpenes can give rise to oxygenated species with low vapour pressures that subsequently condense to form secondary organic aerosol.

Aquatic Fate: Complex chlorinated terpenes such as toxaphene (a persistent, mobile and toxic insecticide) and its degradation products were produced by photoinitiated reactions in an aqueous system, initially containing limonene and other monoterpenes, simulating pulp bleach conditions.

Substances containing unsaturated carbons are ubiquitous in indoor environments. They result from many sources (see below). Most are reactive with environmental ozone and many produce

stable products which are thought to adversely affect human health. The potential for surfaces in an enclosed space to facilitate reactions should be considered.

stable products which are thought to ad	wersely allect numar nealth. The potential for surfaces in an a	enclosed space to facilitate reactions should be considered.
Source of unsaturated substances	Unsaturated substances (Reactive Emissions)	Major Stable Products produced following reaction with ozone.
Occupants (exhaled breath, ski oils, personal care products)	Isoprene, nitric oxide, squalene, unsaturated sterols, oleic acid and other unsaturated fatty acids, unsaturated oxidation products	Methacrolein, methyl vinyl ketone, nitrogen dioxide, acetone, 6MHQ, geranyl acetone, 4OPA, formaldehyde, nonanol, decanal, 9-oxo-nonanoic acid, azelaic acid, nonanoic acid.
Soft woods, wood flooring, including cypress, cedar and silver fir boards, houseplants	Isoprene, limonene, alpha-pinene, other terpenes and sesquiterpenes	Formaldehyde, 4-AMC, pinoaldehyde, pinic acid, pinonic acid, formic acid, methacrolein, methyl vinyl ketone, SOAs including ultrafine particles
Carpets and carpet backing	4-Phenylcyclohexene, 4-vinylcyclohexene, styrene, 2-ethylhexyl acrylate, unsaturated fatty acids and esters	Formaldehyde, acetaldehyde, benzaldehyde, hexanal, nonanal, 2-nonenal
Linoleum and paints/polishes containing linseed oil	Linoleic acid, linolenic acid	Propanal, hexanal, nonanal, 2-heptenal, 2-nonenal, 2-decenal, 1-pentene-3-one, propionic acid, n-butyric acid
Latex paint	Residual monomers	Formaldehyde
Certain cleaning products, polishes, waxes, air fresheners	Limonene, alpha-pinene, terpinolene, alpha-terpineol, linalool, linalyl acetate and other terpenoids, longifolene and other sesquiterpenes	Formaldehyde, acetaldehyde, glycoaldehyde, formic acid, acetic acid, hydrogen and organic peroxides, acetone, benzaldehyde, 4-hydroxy-4-methyl-5-hexen-1-al, 5-ethenyl-dihydro- 5-methyl-2(3H)-furanone, 4-AMC, SOAs including ultrafine particles
Natural rubber adhesive	Isoprene, terpenes	Formaldehyde, methacrolein, methyl vinyl ketone
Photocopier toner, printed paper, styrene polymers	Styrene	Formaldehyde, benzaldehyde
Environmental tobacco smoke	Styrene, acrolein, nicotine	Formaldehyde, benzaldehyde, hexanal, glyoxal, N-methylformamide, nicotinaldehyde, cotinine
Soiled clothing, fabrics, bedding	Squalene, unsaturated sterols, oleic acid and other saturated fatty acids	Acetone, geranyl acetone, 6MHO, 40PA, formaldehyde, nonanal, decanal, 9-oxo-nonanoic acid, azelaic acid, nonanoic acid
Soiled particle filters	Unsaturated fatty acids from plant waxes, leaf litter, and other vegetative debris; soot; diesel particles	Formaldehyde, nonanal, and other aldehydes; azelaic acid; nonanoic acid; 9-oxo-nonanoic acid and other oxo-acids; compounds with mixed functional groups (=O, -OH, and -COOH)
Ventilation ducts and duct liners	Unsaturated fatty acids and esters, unsaturated oils, neoprene	C5 to C10 aldehydes
"Urban grime"	Polycyclic aromatic hydrocarbons	Oxidized polycyclic aromatic hydrocarbons
Perfumes, colognes, essential oils (e.g. lavender, eucalyptus, tea tree)	Limonene, alpha-pinene, linalool, linalyl acetate, terpinene-4-ol, gamma-terpinene	Formaldehyde, 4-AMC, acetone, 4-hydroxy-4-methyl-5-hexen-1-al, 5-ethenyl-dihydro- 5-methyl-2(3H) furanone, SOAs including ultrafine particles
Overall home emissions	Limonene, alpha-pinene, styrene	Formaldehyde, 4-AMC, pinonaldehyde, acetone, pinic acid, pinonic acid, formic acid, benzaldehyde, SOAs including ultrafine particles

Abbreviations: 4-AMC, 4-acetyl-1-methylcyclohexene; 6MHQ, 6-methyl-5-heptene-2-one, 4OPA, 4-oxopentanal, SOA, Secondary Organic Aerosols

Reference: Charles J Weschler; Environmental Helath Perspectives, Vol 114, October 2006

For Limonenes:

Atmospheric Fate: Due to the high volatility of limonene, the atmosphere is expected to be the major environmental sink for this chemical. The oxidation of limonene may contribute to aerosol and photochemical smog formation. The daytime atmospheric lifetime of d-limonene is estimated to range from 12 to 48 minutes depending upon local hydroxyl rate and ozone concentrations. Ozonolysis of limonene may also lead to the formation of hydrogen peroxide and organic peroxides, which have various toxic effects on plant cells and may damage forests. Reactions with nitrogen oxides produce aerosol formation as well as lower molecular weight products such as formaldehyde, acetaldehyde, formic acid, acetone and peroxyacetyl nitrate.

Terrestrial fate: When released to the ground, limonene is expected to have low to very low mobility in soil based on its physicochemical properties. It is expected that limonene will rapidly volatilize from both dry and moist soil, however; its absorption to soil may slow the process.

Aquatic fate: In the aquatic environment, limonene is expected to evaporate to a significant extent owing to its high volatility. The estimated half-life for volatilisation of limonene from a model river 1 m deep is 3.4 h. Some limonene is expected to absorb to sediment and suspended organic matter. Hydrolysis of limonene is not expected in terrestrial or in aquatic environments. The hydrolytic half-life of d-limonene is estimated to be >1000 days.

Ecotoxicity: Biotic degradation of limonene has been shown with some species of microorganisms such as Penicillium digitatum, Corynespora cassiicola, Diplodia gossyppina and a soil strain of Pseudomonans sp (SL strain). Limonene is readily biodegradable under aerobic conditions. Biodegradation has been assessed under anaerobic conditions; there was no indication of any metabolisms, possibly because of the toxicity to micro-organisms. Limonene may bioaccumulate in fish and other aquatic species. Technical limonene is practically nontoxic to birds and is slightly toxic to freshwater fish and invertebrates on an acute basis. Limonene has low subacute toxicity to bobwhite quail. DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
phosphoric acid	HIGH	HIGH
water	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
phosphoric acid	LOW (LogKOW = -0.7699)
water	LOW (LogKOW = -1.38)

## Mobility in soil

Ingredient	Mobility
phosphoric acid	HIGH (KOC = 1)
water	LOW (KOC = 14.3)

# SECTION 13 DISPOSAL CONSIDERATIONS

## Waste treatment methods

Product / Packaging disposal Containers may still present a chemical hazard/ danger when empty.
 Return to supplier for reuse/ recycling if possible.

<ul> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>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.</li> <li>A Hierarchy of Controls seems to be common - the user should investigate:         <ul> <li>Reduction</li> <li>Reuse</li> <li>Recycling</li> <li>Disposal (if all else fails)</li> </ul> </li> </ul>
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<ul> <li>Reduction</li> <li>Reuse</li> <li>Recycling</li> </ul>
<ul> <li>▶ Reuse</li> <li>▶ Recycling</li> </ul>
► 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.
Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.
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.
<ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> </ul>
<ul> <li>Consult State Land Waste Authority for disposal.</li> </ul>
Bury or incinerate residue at an approved site.
<ul> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>

# **SECTION 14 TRANSPORT INFORMATION**

Labels Required	
	MERLINE CONTRACTOR OF CONTRACT
Marine Pollutant	
HAZCHEM	•3Z

## Land transport (ADG)

Lanu transport (ADG)	
UN number	3082
Packing group	III
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains naphtha petroleum, light aromatic solvent and gum turpentine)
Environmental hazard	No relevant data
Transport hazard class(es)	Class 9 Subrisk Not Applicable
Special precautions for user	Special provisions       179 274 331 335 AU01         Limited quantity       5 L

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in; (a) packagings; (b) IBCs; or (c) any other receptacle not exceeding 500 kg(L). - Australian Special Provisions (SP AU01) - ADG Code 7th Ed.

# Air transport (ICAO-IATA / DGR)

UN number	3082	
Packing group	II	
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. * (contains naphtha petroleum, light aromatic solvent and gum turpentine)	
Environmental hazard	No relevant data	
Transport hazard class(es)	ICAO/IATA Class9ICAO / IATA SubriskNot ApplicableERG Code9L	
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	A97 A158 A197 964 450 L 964 450 L Y964

Passenger and Cargo Limited Maximum Qty / Pack

30 kg G

Sea transport (IMDG-Code / GGVSee)

UN number	3082		
Packing group	III		
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains naphtha petroleum, light aromatic solvent and gum turpentine)		
Environmental hazard	Marine Pollutant		
Transport hazard class(es)	IMDG Class     9       IMDG Subrisk     Not Applicable		
Special precautions for user	EMS NumberF-A , S-FSpecial provisions274 335Limited Quantities5 L		

## Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

Source	Ingredient	Pollution Category
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	naphtha petroleum, light aromatic solvent	Y
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	gum turpentine	x
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	phosphoric acid	Z

## **SECTION 15 REGULATORY INFORMATION**

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

NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT(64742-95-6.) IS FOUND ON THE FOLLOWING REGULATORY LISTS				
Australia Hazardous Substances Information System - Consolidated Lists		Australia Inventory of Chemical Substances (AICS)		
GUM TURPENTINE(9005-90-7)	GUM TURPENTINE(9005-90-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS			
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)		
Australia Hazardous Substances	Australia Hazardous Substances Information System - Consolidated Lists			
PHOSPHORIC ACID(7664-38-2	) IS FOUND ON THE FOLLOWING REGULATORY LISTS			
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)		
Australia Hazardous Substances	Information System - Consolidated Lists			
WATER(7732-18-5) IS FOUND	ON THE FOLLOWING REGULATORY LISTS			
Australia Inventory of Chemical Substances (AICS)				
National Inventory	Status			
National Inventory Australia - AICS	Status Y			
Australia - AICS	Y	romatic solvent; water)		
Australia - AICS Canada - DSL	Y Y	romatic solvent; water)		
Australia - AICS Canada - DSL Canada - NDSL	Y Y N (gum turpentine; phosphoric acid; naphtha petroleum, light an	romatic solvent; water)		
Australia - AICS Canada - DSL Canada - NDSL China - IECSC Europe - EINEC / ELINCS /	Y Y N (gum turpentine; phosphoric acid; naphtha petroleum, light ar Y	romatic solvent; water)		
Australia - AICS Canada - DSL Canada - NDSL China - IECSC Europe - EINEC / ELINCS / NLP	Y Y N (gum turpentine; phosphoric acid; naphtha petroleum, light ar Y Y	romatic solvent; water)		
Australia - AICS Canada - DSL Canada - NDSL China - IECSC Europe - EINEC / ELINCS / NLP Japan - ENCS	Y Y N (gum turpentine; phosphoric acid; naphtha petroleum, light ar Y Y N (water)	romatic solvent; water)		

# **SECTION 16 OTHER INFORMATION**

Y

Y = All ingredients are on the inventory

#### Other information

USA - TSCA

Legend:

# Ingredients with multiple cas numbers

Name	CAS No
naphtha petroleum, light aromatic solvent	25550-14-5., 64742-95-6.

N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

СТР	Plate	Cleaner
-----	-------	---------

gum turpentine	8006-64-2, 9005-90-7
phosphoric acid	16271-20-8, 7664-38-2

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

A list of reference resources used to assist the committee may be found at: www.chemwatch.net

The (M)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 Limit, 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

