universaldrycleaningsolutions

Issue Date: 10th Jan 2017

SAFETY DATA SHEET

DEODOURISER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Deodouriser
Product Use:	Drycleaning aid to mask odours in a Perchloroethylene system
Supplier:	Universal Drycleaning Solutions 3 Spireton Place, Pendle Hill NSW 2145 PH. 02 9688 2022
Emergency Contact:	Poisons Information Australia 131126

2. HAZARDS IDENTIFICATION

Hazardous chemical	*according to classification by Safe Work Australia*
Dangerous goods	*according to the Australian Code for the Transport of Dangerous Goods by Road and Rail*

Signal Word	**Danger**	
GHS Classification	**Pictogram**	**Hazard statement**
Specific Target Organ Toxocity (Repeated Exposure) Category 2		H373 May cause damage to liver and kidney and produce CNS depression
Acute Toxicity – Oral Category 4 Skin Corrosion / Irritation Category 4 Serious Eye Damage / Irritation Category 2A Acute Toxicity – Inhalation Category 4		H302 Harmful if swallowed H315 Causes skin irritation H319 Causes serious eye irritation H332 May be irritating to respiratory tract

Precautionary statements:

GENERAL	
P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children

P103	Read label before use
PREVENTATIVE	
P210	Keep away from heat/sparks/open flames/hot surfaces- No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion proof electrical equipment
P242	Use only non sparking tools
P243	Take precautionary measure against static discharge
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P271	Use only outdoor or in a well ventilated area
P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P280	Wear protective gloves/eye protection/face protection
RESPONSE	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE or doctor
P331	DO NOT induce vomiting
P330 + P321	Rinse mouth. Give plenty of water to drink.
P303 + P361 + P353	IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse. Rinse skin with water/shower
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313	If eye irritation persists: Get medical advice/attention
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position for breathing. Call a POISON CENTRE or a doctor if you feel unwell
STORAGE	
P405 + P235	Store in a well ventilated place. Keep cool.
DISPOSAL	
P501	Dispose of contents/container in accordance with local regulations

3. COMPOSITION / INFORMATION ON INGI

Chemical Name	CAS Number	Proportion
TETRACHLOROETHYLENE	127-18-4	<50%
Fragrance	N/A	>50%

4. FIRST AID MEASURES

Ingestion:	Rinse mouth with water. DO NOT induce vomiting. Ensure patient does not become cold. Give plenty of water to drink. No milk, oils or alcohols to be provided as can potentiate effects. Urgent medical attention should be sought.
Eye:	Hold eyes opening whilst rinsing with water for at least 15 minutes. Urgent medical attention should be sought.
Skin:	Remove contaminated clothing, wash before re-use. Wash affected area with soap and water repeatedly. Seek medical advise where irritation persists or reddening of skin on affected area.
Inhalation:	Remove victim from exposure to fresh air, avoiding becoming a victim. If necessary, begin artificial heart/lung resuscitation or administer oxygen. Consult doctor in case of symptoms effecting the respiratory or nervous system.
First Aid Facilities:	Ensure an eye bath and safety shower are available and ready for use.
Advice to Doctor	DO NOT administer medicines which imitate adrenalin. Treat symptomatically for "exposure to chlorinated solvents".

5. FIRE FIGHTING MEASURES

Fire/Explosion Hazard:	Not flammable or combustible. However, vapour exposed to high temperatures may decompose to acidic and toxic gases, including phosgene. Unstable to ultraviolet light. Reacts violently with fresh zinc surfaces, barium, beryllium or lithium powders. Heating can cause expansion leading to violent rupture of container. If safe to do so, remove from path of fire. Keep cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Acute - Ingestion:	Harmful if swallowed. May cause mouth and throat irritation leading to nausea, vomiting, abdominal cramps and diarrhoea. Feelings of intoxication, agitation, vertigo and drowsiness have been noted.
Acute - Eye:	Avoid contact with eyes. Fumes cause slight irritation, while liquid causes intense irritation, lacrymation (tears), reddening of the eyes and a burning sensation. Risk of temporary eye lesions.
Acute - Skin:	Avoid contact with skin. Causes slight irritation and reddening of the skin. Prolonged or repeated contact may result in dermatitis or eczema. Skin burns blistering and erythema can occur from severe direct contact with material. Toxic effect may result from skin absorption.
Acute - Inhalation:	Do not breath vapour or spray mist. Irritates mucous membranes and upper respiratory tract. At high concentrations light headedness, agitation, dizziness, nausea, retching, drowsiness and deep stupor. Risk of palpitations. Risk of chemically induced bronchial pneumonia and pulmonary oedema. Prolonged or repeated exposure can result in headache, lethargy and risk of irregularities of the nervous system. Alcohol use can potentiate effects.
Chronic:	Possible risk of irreversible effects. Vapour is harmful to health on prolonged exposure. Target organs include liver, kidneys, primary respiratory tract and the central nervous system. Repeated or prolonged exposure has resulted in asthenia, nausea, liver dysfunction (by inhalation starting at 75ppm) and kidney dysfunction(by inhalation starting at 230ppm and oral starting at 400mg/kg of body weight). Toxic effect of the nervous system has been recorded starting at 100ppm, behavioural differences from 400ppm and cardiac sensitivity beginning at 5000ppm.

Other Health Hazard Information

A study examined 27 dry cleaners for neurobehavioral effects. Exposure of these workers was quite low, 8 hour TWA being 18ppm in the exposed group. The occurrence of psychological problems and signs of functional disturbances in the peripheral nervous system were investigated. The researchers found no difference between the exposed and the control groups. In several recent studies excesses of leukaemia and cancers of the skin, colon, lung and urogenital tract were reported in laundry and drycleaning workers. However, the number of cases was small and many studied workers were also exposed to other organic solvents.
There is limited evidence for carcinogenicity in experimental animals, where induced tumours were found in the liver of mice and increased incidence of leukaemia in rats via inhalation. However, there is insufficient evidence for carcinogenicity in humans.

7. HANDLING AND STORAGE

EPG:	**37**
HAZCHEM:	**2[Z]**
Storage Precautions:	No ignition sources, including static sparks, or hot surfaces within 3 metres of housing. Foodstuffs, being for human consumption or feed stock for

animals, must be at least 5 metres from dangerous goods, dangerous goods must not be opened in the same area and maximum aggregate quantity of 2mt can be stored at any one time. Rooms where goods are stored or handled must have adequate ventilation and a spill containment compound available. Store below 140oC as at this point product decomposes and can form phosgene, hydrogen chloride and carbon monoxide. Keep containers closed tightly at all times. Check regularly for leaks. Store in clearly labelled containers. Storage must be fully compliant with Dangerous Goods(Storage & Handling) Regulations 1989.

8. EXPOSURE CONTROLS / PERSONEL PROTECTION

WARNING: **The IRAC (International Research Agency for Cancer) has classified this product as 2B. Possible carcinogen to humans. Use strict occupational hygiene practices at all times.**

Exposure Standards: Tetrachloroethylene: TWA = 50ppm (335mg/m3)
STEL = 150ppm (1020mg/m3
Carcinogen Category = 3

Engineering Controls: Ensure ventilation is adequate to maintain air concentrations below exposure standards. Keep containers closed when not in use.

Personal Protection: Use good industrial hygiene. If inhalation risk occurs, wear organic vapour respirator. Avoid skin and eye contact by wearing chemically impervious rubber/PVC gloves, goggles and overall. Always wash hands after use. Do not smoke in workplace area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellowish liquid with a strong perfume fragrance
Melting Point:	-22.7°C
Boiling Point:	121.2°C
Vapour Pressure:	19mm Hg (1 atom)
Specific Gravity:	1.622 (20°C)
Flashpoint:	Not Applicable
Flammability Limit:	Not Applicable
Solubility in Water:	Insoluble
pH:	8 - 10
Viscosity @ 20oC:	0.88cP

Vapour Density @ Boiling Point: 5.8g/dm3
Soluble in the majority of organic or chlorinated solvents.

10. STABILITY AND REACTIVITY

Flammability: Not flammable. Keep away from naked flames as vapour is considered to be toxic. Forms acidic gases and toxic fumes near radiators or naked flames.

11. TOXOCILOGICAL INFORMATION

Toxicity: Oral (rat) LD50 : 2629mg/kg

Inhalation (human) LDLo : 2857mg/kg
Inhalation (human) TDLo : 96ppm/7hours

Inhalation (human) TCLo : 600ppm/10mins
Inhalation (human) LCLo : 34200mg/M3/8 hours
Inhalation - Skin(rabbit): 810mg/24hours severe irritant
- Eye(rabbit) : 162mg/kg mild irritant (RTECS)

Aquatic toxicity and other data relating to ecotoxicity:

Acute: Fish : LC50 = 5mg/L (96h) Species: Salmo gairdnieri
Crustaceans: EC50 = 8.5mg/L (48h) Species: Daphnia magna
Algae: EC50 = 500mg/L (96h) Species: Skeletonema statum

Chronic: Fish : LC50 = 18mg/L (7days) Species: Poecilia reticulata
LOEC = 1.6mg/L (60days) Species: Poecilia sphenops
NOEC = 2mg/L (10-18days) Species: Jordanella fluoridae

Perchloroethyelene is not readily biodegradable in aerobic conditions. In anaerobic conditions with acclimated sludges, it is reasonably biodegradable. The substance is toxic to aquatic organisms.

12. ECOLOGICAL INFORMATION

Environmental: Do not discharge into drains, waterways, sewer or landfall. Product to be disposed of by an authorised waste management authority. It poses limited danger to the environment due to low persistence (t1/2 global = 5 months), low potential for bioaccumulation, high volatility and its biodegradability (in favourable anaerobic conditions).

13. DISPOSAL CONSIDERATIONS

Spills and Leaks: Evacuate area - move upwind. Clean-up personnel should wear full protective equipment including self contained breathing apparatus. Provide adequate ventilation to the spill area. Eliminate all sources of ignition to avoid possibility of decomposition. Contain the spill, if safe to do so, by using sand or earth as absorbent material. Try to prevent any run-off into drains and waterways. Reduce spread of fumes by using water spray. Move the damaged container where possible, to an isolated, well-ventilated area and transfer contents into another container. Pump spill product into original container. Dispose of in accordance with EPA guidelines or the local authorities.

14. TRANSPORT INFORMATION

Transport Detail: This product is incompatible on a placard load with Class 1 Explosives, Class 3 Nitromethane, food and food packaging for human consumption and/or feed stock for animals when carted by road or rail. Refer to compliancy details in ACTDG 6th Edition. All appropriate safety wear and equipment suitable for Class 6.1 must be carried on vehicle with appropriate signage.

UN Number: 1897
Dangerous Goods Class: 6.1
Packaging Group: III
HAZCHEM Code: 2[Z]
Poisons Schedule: 6

15. REGULATORY INFORMATION

Not regulated.

16. OTHER INFORMATION

If poisoning occurs, contact doctor or Poisons Information Centre on 131126 (Australia).

Company	Location	Phone Number	Contact
Unique Laboratories Pty Ltd	**Melbourne**	**03 95552688**	**Manuel Daher**

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