ENVIROCHEM (AUSTRALIA) PTY. LTD.

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MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SEALTITE CLEANER BUFFER

HAZARDOUS ACCORDING TO THE CRITERIA OF WORKSAFE AUSTRALIA

Reason for Change: Update to Worksafe format

EMERGENCY CONTACTS

Normal Office Hours:	Monday to Friday 8.30 to 5.00 pm (EST), (03) 9544 1766
Emergency Contact Numbers:	(0407) 232 786 or (03) 9544 1766
Melbourne Poisons Information Centre:	(03) 9345 5678
Other States Poisons Information Centres:	13 11 26
Emergency Services:	Refer Local Telephone Directory

PRODUCT IDENTIFICATION

Product Name:	SEALTITE CLEANER BUFFER
Shipping Name:	Petroleum distillates, N.O.S.
Product Use:	Use as a solvent only in Industrial manufacturing process
Hazchem Code:	3 [Y]
U.N. No:	1268
D.G. Class:	3
Packaging Group:	II
Poisons Schedule:	S 5
Substance Chemical Family:	Aliphatic hydrocarbon

INGREDIENTS	CAS. NO.	PROPORTION
Solvent Naphtha, petroleum, light aliphatic	64742-89-8	60- 100%
n-Hexane	110-54-3	5 – 15%

KEY < = less than > = greater than RUR: Recommended Usage Rate

PHYSICAL DESCRIPTION / PROPERTIES

Appearance:	Colourless liquid
Boiling Range:	Typical 47 - 120ºC
Vapour Pressure:	Typical 34.5 kPa at 15ºC
Flash Point:	< - 30ºC
Flammability Limits LEL:	1% v/v
Flammability Limits UEL:	7.5% v/v
Density:	Typical 680 kg/m3 at 15ºC
Evaporation Rate:	(ASTM D3539, nBuAc=1) = 6.8
Odour:	Paraffinic sweet
Form:	Liquid
Stability:	Stable under normal conditions of storage and handling
Hazard Polymerisation:	Will not occur
Materials to avoid:	Strong oxidising agents

HEALTH HAZARD INFORMATION

HEALTH EFFECTS: No adverse health effects expected if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

Acute:

Swallowed:	Harmful – may cause lung damage if swallowed. Subsequent to ingestion or vomiting, small amounts of liquid aspirated into the respiratory system may cause severe pulmonary injury that may lead to death. May also cause irritation to the gastrointestinal system. Symptoms may include nausea, vomiting, diarrhoea and abdominal pain
Eye:	May cause irritation to eye which can result in redness, swelling, itching, stinging and excessive tearing
Skin:	May cause irritation to skin, which can result in redness and itching
Inhaled:	Harmful: danger of serious damage to health by prolonged exposure through inhalation. May cause irritation to the mucous membrane and upper airways, especially where vapours or mists are generated. Symptoms include sneezing, coughing, wheezing, shortness of breath, headache, dizziness, nausea and vomiting. Causes serious nerve damage by prolonged exposure resulting in sensory loss
Hazards Identification:	Classified as Hazardous according to criteria of HOHSC Classified as a Dangerous Good according to the ADG Code Risk Phrase R11 Highly flammable R48 / 20 Harmful: danger of serious damage to healthy by prolonged exposure through inhalation R62 Possible risk of impaired fertility R65 Harmful: may cause lung damage if swallowed Safety Phrase S16 Keep away from sources of ignition – No smoking S2 Keep out of reach of children S23 Do not breathe gas/fumes/vapour/spray S24 / 25 Avoid contact with skin and eyes S29 Do not empty into drains S51 Use only in well ventilated areas S9 Keep container in a well ventilated place

Chronic:

Repeated or prolonged contact may dry and de-fat the skin, resulting in skin irritation and possible dermatitis. Possible risk of impaired fertility

FIRST AID INSTRUCTIONS: **If poisoning occurs, contact a doctor or Poison Information Centre**

Swallowed:	DO NOT induce vomiting. Immediately wash mouth out with water. Seek immediate medical attention
Eye:	If contact with the eye(s) occur, wash with copious amounts of water, holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If irritation develops, seek medical attention
Skin:	Remove all contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap. Ensure contaminated clothing is washed before re-use or discard. If symptoms develop, seek immediate medical attention
Inhaled:	Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have a qualified person give oxygen through a facemask if breathing is difficult. Seek immediate medical attention
First Aid Facilities:	An eye wash fountain, safety shower and a general washing facility should be available immediately adjacent to the work area
Other Information:	For advice, contact a Poisons Information Centre (Phone eg. Australia 131 126; New Zealand 03 4747 000 [Not after May 2005] or 0800 764 766) or a doctor (at once)
Advice to Doctor:	Treat symptomatically

PRECAUTIONS FOR USE

Exposure Limits:	Name	STEL		TWA		
		Mg/m3	ppm	Mg/m3	ppm	Footnote
				176	50	
Engineering Controls:	Provide sufficient ventilation to keep airborne levels to least possible levels. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is recommended. Provide electrical earthing and equipment useable in explosive atmospheres Refer to AS 194C – The storage and handling of flammable and combustible liquids and AS 2430-Explosive gas atmospheres for further information concerning ventilation requirements					

Personal Protection

Respirator Type:	Avoid breathing of vapours/mists. Where ventilation is inadequate and vapours/mists are generated, the use of an approved respirator with filter complying with AS/NZS 1715 and AS/NZS 1716 is recommended; however final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715-Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716 – Respiratory Protective Devices
Eye Protection:	Chemical safety glasses or face shield recommended as appropriate. Final choice of appropriate eye/face protection will vary according to individual circumstances including methods of handling or engineering controls as determined by appropriate risk assessments. Eye protection should conform to Australian/New Zealand Standard AS/NZS 1337 – Eye Protectors for Industrial Applications
Glove Type:	Impervious gloves (Nitrile rubber) recommended as appropriate. Final choice of appropriate glove type will vary according to individual circumstances, including methods of handling or engineering controls as determined by appropriate risk assessments. Refer to AS/NZS 2161 Occupational protective gloves – Selection, use and maintenance
Clothing:	The use of impervious clothing and boots are recommended

Flammability

Fire Hazards:	Highly flammable. Keep away from heat, sparks or naked flames. Electrically link and ground metal containers for transfer of the product to prevent accumulation of static electricity. Ensure adequate ventilation to prevent an explosive vapour-air mixture. Vapours will travel considerable distances to sources of ignition

SAFE HANDLING INFORMATION

Storage Precautions:	Highly flammable liquid for storage and handling purposes. Keep tightly closed in a dry, cool, well-ventilated area, out of direct sunlight. Avoid sparks, flames and other ignition sources. Store away from incompatible materials. Provide electrical earthing of equipment and electrical equipment useable in explosive atmospheres. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. For information on the design of the storeroom reference should be made to Australian Standard AS1940 – The storage and handling of flammable and combustible liquids. Reference should also be made to all Local, State and Federal regulations
Transport:	This material is a Class 3 – Flammable Liquid according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 3 – Flammable Liquids are incompatible in a placard load with any of the following: - Class 1, Explosives - Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk - Class 2.3, Toxic Gases - Class 4.2 Spontaneously Combustible Substances - Class 5.1 Oxidising Agents and Class 5.1, Organic Peroxides - Class 6 Toxic Substances (where the flammable liquid is ritromethane) - Class 7 Radioactive Substances

Handling:	Repeated or prolonged exposure to this material should be avoided in order to lessen the possibility of disorders. Use in a well ventilated area. Prohibit sources of sparks, ignition and naked flames. Wear appropriate protective equipment. It is essential that all who come into contact with this material maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or going to the toilet. Build-up of vapour or mist in the working atmosphere must be prevented. Ensure ventilation is adequate. DO NOT enter confined spaces where vapour or mist may have collected. Keep containers closed when not in use. Prevent accumulation of static electricity and earth all equipment. Avoid splash filling. Use a vapour recovery or return system. Do not use compressed air for filling, discharging or handling. If positive displacement pumps are used, these must be fitted with a no-integral pressure relief valve. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge. Refer to supplier for further product transfer instructions if required
Proper Shipping Name:	PETROLEUM DISTILLATES, N.O.S.
EPG Number:	3A1
IERG Number:	14
Packaging Method:	5.9.3RTI
Recommended Materials:	For containers or container linings, use mild steel, stainless steel. For container paints, use zinc silicate, epoxy resins
Unsuitable Materials:	Avoid prolonged contact with natural, butyl or nitrile rubbers. Consult AS 1940 for further information on the storage and handling of flammable and combustible liquids

Spills and Disposals

Disposal:	Dispose of waste according to federal, E.P.A., State and local regulations. Assure conformity with all applicable regulations
Accidental Release:	Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear full protective equipment and clothing to minimise exposure. If possible contain the spill. Place inert, non-combustible, absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority
Personal Protection:	Personal Protection Equipments

Fire / Explosion Hazard

Fire / Explosion Hazard:	Highly flammable. Keep storage tanks, pipelines, fire-exposed surfaces etc cool with water spray. Ensure adequate ventilation to prevent explosive vapour-air mixture and prevent build-up of electrostatic charges (i.e. by grounding). Vapour/air mixtures may ignite explosively and flashback along the vapour trail. Remove sources of re-ignition
Hazardous Combustion Products:	Oxides of carbon
Fire Fighting Precautions:	Self-contained breathing apparatus (S.C.B.A) and full protective clothing should be worn
Extinguishing Media:	Water spray, carbon dioxide, foam, dry chemical. Use water spray to keep fire-exposed containers cool. Do NOT use high volume water jet
Hazchem Code:	3 [Y] E
Conditions to Avoid:	Heat, flames and sparks

Other Information

Toxicology:	For Hexane: LC50/Inhalation/Rat/4H = 169.2 mg/L LD50/Orat/Rat=25 gm/kg
Environment Protection:	Prevent substance from entering the environment
Risk Statement:	R11 Highly flammable R48 / 20 Harmful: danger of serious damage to health by prolonged exposure through inhalation R62 Possible risk of impaired fertility R65 Harmful: may cause lung damage if swallowed

Safety Statement:	S16 Keep away from sources of ignition – No smoking S2 Keep out of reach of children S23 Do not breathe gas/fumes/vapour/spray S24/25 Avoid contact with skin and eyes S29 Do not empty into drains S51 Use only in well ventilated areas S9 Keep container in a well ventilated place
Packaging and Labelling:	Labelling requirements of the Standard for Uniform Scheduling of Drugs and Poisons do not apply to a poison that is packed and sold solely for industrial, laboratory or manufacturing purposes; however is labelled in accordance with the National Occupational Health and Safety Commission's National Code of Practice for the Labelling of Workplace Substances'.
Other Regulatory Information:	94/569/EC (21st ATP). The benzene content of this product is less than 0.1%. Nota P applies. Classification and labelling as carcinogen (R45) is not required.
Hazard Category:	Harmful, Highly Flammable
Basis for Assessment (Ecology)	Incomplete ecotoxicological data are available for this product. The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products
Acute Toxicity – Bacteria:	Expected to be toxic, 1 < LC/EC/IC 50 < = 10 mg/1
Mobility:	Floats on water. Evaporates within a day from water or soil surfaces
Persistence / Degradability:	Readily biodegradable. Based on product composition. Oxidises rapidly by photochemical reactions in air. Integrated environmental half-life expected to be 1 - < 10 days
Bioaccumulation:	Has the potential to bioaccumulate
Acute Toxicity – Fish:	Expected to be toxic, 1 < LE/EC/IC 50 < = 10 mg / 1
Acute Toxicity – Other Organisms:	Acute toxicity – invertebrates: Expected to be toxic, 1 < LC/EC/IC 50 < = 10 mg/1
Sewage Treatment:	Expected to be toxic, 1 < LC/EC/IC 50 < = 10 mg/1
Acute Toxicity – Algae:	Expected to be toxic, 1 < LC/EC/IC 50 < = 10 mg/1

Contact Point: B. Easton **Telephone No: (03) 9544 1766** **Date: September 2008**

Poisons Information Centre 13 1126 (Australia Wide)

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