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1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<u>SUPPLIER</u>	XKEM Address: 4/94 Plumpton Avenue, Glenroy, VIC 3046 Telephone: 1300 556 420 Facsimile: 1300 881 581 Emergency Telephone No: 000 Fire Brigade and Police (Australia only)
<u>PRODUCT</u>	Product Name: XKEM Premium Wash Thinners Other Names: PAINT RELATED MATERIAL. (Contains: flammable hydrocarbons). Manufacturer's Code: None
<u>USE</u>	A solvent based mixture used as a Thinner or Cleaning Agent for painting and printing equipment.

This Safety Data Sheet (SDS) is issued by the Supplier in accordance with National standards and guidelines from the Australian Safety and Compensation Council (ASCC, formerly National Occupational Health and Safety Commission - NOHSC). The information in it must not be altered, deleted or added to. The Supplier will not accept any responsibility for any changes made to its SDS by any other person or organization. The Supplier will issue a new SDS when there is a change in product specifications and/or ASCC standards, codes, guidelines, or Regulations.

2. HAZARD IDENTIFICATION

SIGNAL WORD **DANGER**

GHS CLASSIFICATION:

Flammable Liquid.- Category 2
Skin irritant – Category 2
Respiratory tract irritant. – Category 2
Specific target organ toxicity – Single exposure - Category 3
Specific target organ toxicity – Repeat exposure - Category 3
Aspiration Toxicity. – Category 1

GHS LABELSYMBOLS



Hazard Statements:

PHYSICAL HAZARDS:

H225: Highly flammable liquid and vapour.

HEALTH HAZARDS:

H304: May be fatal if swallowed and enters airways

H315: Cause skin irritation

H336: May cause dizziness or drowsiness

H361: Suspected of damaging fertility or the unborn child

H373: May cause damage to organs through prolonged or repeated exposure

Prevention

P201: Obtain special instructions before use

P202: Do not handle until all safety precautions have been read and understood

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, ventilating, lighting equipment.

P242: Use non-sparking tools

P243: Take precautionary measures against static discharge

P260: Do not breathe mist, vapours, spray

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P264: Wash exposed skin thoroughly after handling

P270: use only outdoors or in a well-ventilated area

P280: Wear protective gloves, protective clothing eye protection, face protection.

Response

P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician

P303+P361+P353: If ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P308+313: If exposed or concerned: Get medical advice/attention

P331: If swallowed do NOT induce vomiting.

P332+P313: If Skin irritation occurs. Get medical advice/attention.

P362: Take of contaminated clothing and wash before reuse.

P370 +P378: In case of fire: Use appropriate media for extinction. Carbon dioxide powder, alcohol-resistant foam for extinction

Storage

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up

Disposal

P501: Dispose of contents and container to appropriate waste site of reclaimer in accordance with local and national regulations.

Other Hazards which do not result in classification

This material is a static accumulator.

Even with proper grounding and bonding, this material can still accumulate an electrostatic charge.

If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur. Hazard Statements:

3. COMPOSITION/INFORMATION ON INGREDIENTS

This mixture is made from appropriately processed and treated waste materials coming from a variety of sources. Therefore, the actual ingredients and their proportion vary from batch to batch and do not necessarily contain all the ingredients listed in the typical blend shown below.

	CHEMICAL ENTITY	CAS No	PROPORTION
<u>MIXTURE</u>	Water	7732-18-51	0 - 1%
	Aliphatic hydrocarbons	Not applicable	0 - 50%
	Aromatic hydrocarbons	Not applicable	0 - 50%
	Aliphatic alcohols	Not applicable	0 - 30%

4. FIRST AID MEASURES

FIRST AID

Swallowed: Immediately rinse mouth with water. Do NOT induce vomiting. For advice, call a Poisons Information Centre (Australia 13 11 26) or a doctor at once. If spontaneous vomiting occurs, keep head below the hips to prevent aspiration into lungs.

Eyes: If in eye, hold eyelids open and irrigate immediately with plenty of water for 15 minutes. Seek medical advice immediately.

Skin: Remove contaminated clothing (avoiding static discharge) and wash affected skin areas with water plenty of water and soap immediately. Wash contaminated clothing before reuse. Seek medical advice if skin irritation develops.

Inhaled: Keep victim calm and remove to fresh air if safe to do so. Seek medical advice immediately if adverse symptoms such as respiratory irritation, dizziness or unconsciousness develop. If breathing has stopped apply artificial respiration.

First Aid Facilities: Have eyewashes and safety showers available in the vicinity where exposure may occur. This SDS should be provided to the attending doctor.

ADVICE TO DOCTOR: Treat symptomatically. Look for signs of aspiration into lungs. Symptoms such as chest tightness, wheezing, cough, shortness of breath, asthma attack may not appear until several hours after exposure. In



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case of ingestion, consider gastric lavage. Because of risk of aspiration gastric lavage should only be undertaken after cuffed endotracheal intubation.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

This substance is a flammable liquid. Use alcohol resistant foam, water spray or fog on large fires. Dry chemical or carbon dioxide extinguishers are suitable for small fires only.

HAZARDOUS COMBUSTION PRODUCTS

Carbon dioxide, carbon monoxide, flammable vapours/gases of unknown composition.

PRECAUTIONS FOR FIRE FIGHTERS

Drums may explosively rupture in a fire; therefore keep containers cool with water spray. Wear full chemical fire protective equipment including a self-contained breathing apparatus. The vapour of this product is heavier than air and will travel considerable distances. An ignition source within its range may ignite the vapour and flash back along the vapour trail potentially initiating an explosion. Will float on water and may reignite on its surface. Prevent fire fighting medium from entering drains or waterways.

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES

Wearing full PPE (see Section 8); isolate hazard area and restrict access. Increase ventilation. Remove all sources of ignition. Dyke spill to minimise environmental pollution. Take precautionary measures against static discharge. Inform emergency services if substance has spilled into sewers, drains or waterways.

CLEAN UP PROCEDURE

Small Spills: Introduce good ventilation and remove ignition sources. Wear eye protection and suitable gloves and wipe up spills with rags/mop/sponge. Place the recovered material in a suitable waste disposal container. Seal the container and label it in accordance with the GHS labelling code to ensure proper disposal. Wash wipe-up medium and spill area with plenty of hot water containing detergent.

Large spills: Prevent run-off into drains or waterways. Wearing full protective equipment (see Section 8), contain spill with earth, sand, Vermiculite or containment socks. Using flameproof equipment bail or pump any free liquid into the original or similar containers and seal them. Using non-sparking implements place absorbed material into suitable waste disposal containers and seal them. Label the containers in accordance with the GHS labelling code. Wash residue away with detergent and plenty of water. Ensure that washings do not enter drains or waterways. If contamination of sewers or waterways has occurred, inform the local emergency services.

7. HANDLING AND STORAGE

PRECAUTION FOR SAFE HANDLING

Practice sound industrial hygiene. Remove contaminated clothing and protective equipment and wash hands before work breaks and at the end of a shift. Minimise exposure by always wearing the recommended personal protection equipment (See Section 8) when handling this substance. Do not smoke in the work area. Electrostatic charges may accumulate during handling; ensure that all equipment is properly grounded. Work only in a well ventilated area. Avoid breathing vapours.

STORAGE

Store in a cool, dry, well ventilated place. Avoid exposure to direct sunlight, sources of heat or ignition. Store away from incompatible materials (see Section 10). Protect containers against physical damage. Guard against accumulation and discharges of static electricity. This substance is Class 3 flammable liquid and must be stored according to the dictates of AS/NZ 1940. Store in a bonded area, and if in excess of the allowable storage quantity, in a flammable goods store.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE STANDARDS: An Australian exposure standard for this product has not been set. The exposure standards to HSIS (December 2010) for most the hazardous ingredients are:

COMPONENT	TWA	STEL	ROUTE
Acetone	500 ppm	1000 ppm	Inhalation

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Cyclohexane	100 ppm	300 ppm	Inhalation
Methyl ethyl ketone	150 ppm	150 ppm	Inhalation
Toluene	50 ppm	150 ppm	Inhalation and skin absorption
Xylene, mixture of isomers	80 ppm	150 ppm	Inhalation
n-Butanol	50 ppm	No data	Inhalation and skin absorption
X55	No data	No data	Inhalation and skin absorption

BIOLOGICAL LIMIT VALUES

COMPONENT	VALUE	PARAMETER	ASSAY FLUID	SAMPLE TIME	REF
Toluene	0.6 mg/L	Toluene	Blood	a	DFG
Xylene, mixture of isomers	1.5mg/L		Blood	a	DFG
Methyl ethyl ketone	5mg/L	150 ppm	Urine	a	DFG
n-Butanol	2mg/g creatine	n-butyl alcohol	Urine	b	DFG
	10mg/g creatine	n-butyl alcohol	Urine	a	ACGIH

Legend: (a) end of exposure or end of shift; (b) start of shift.

ENGINEERING CONTROLS Good general dilution ventilation supplemented with local flameproof extraction controls for ventilation at the source of vapour, aerosol or mist emanation. Ensure that ventilation is sufficient to control exposure level below airborne exposure standard. Isolate the product from all sources of heat or ignition, including sparks and naked flames.

PERSONAL PROTECTION EQUIPMENT Use personal protective equipment that minimizes skin and eye contact, and vapour, mists or aerosol inhalation. The type of protective equipment to be used depends largely the volume and the manner in which the substance is used. To ensure proper protection for any given situation, seek guidance from the following sources: protective clothing – AS 2919; gloves – AS 2161; eye protection – AS 1337; respiratory protection – AS 1715; feet protection – AS 2210. The suitability of each PPE for use with this substance should then be ascertained with the respective PPE suppliers. Under condition of ordinary use and satisfactory engineering controls, wear chemical splash goggles, Teflon gloves, long sleeved overalls, impervious full length chemical resistant apron and impervious, solvent resistant boots. In the event of a large spill, or if mists, aerosols or vapours are generated and their airborne concentration is unknown wear, in the addition to the above, a full-face AS/NZ 1716 compliant cartridge type respirator with an organic vapour filter; combine it with a particulate filter in the presence of aerosols or mist (for selection guidance see AS/NZ 1715). Check the cartridge saturation on a regular basis and replace them when necessary. If personal protection equipment is the only possible means of respiratory protection in the normal, ordinary working environment or when working in confined spaces, use a full-face air supplied respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION & PROPERTIES

Appearance: clear liquid
Odour: Strong solvent odour
pH: 6 - 8
Vapour Pressure: Variable (depends on batch composition)
Vapour Density (air = 1): Vapours are heavier than air
Boiling Point: Variable (depends on batch composition)
Melting Point: Not applicable
Solubility in Water: Partially soluble
Specific Gravity: 0.78 – 0.85
Flashpoint: < -16°C (closed cup)
Explosive Limits (%v/v): LEL = 1.8; UEL = 11.5
Auto Ignition Temperature: ca 465 - 550°C

10. STABILITY AND REACTIVITY



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CHEMICAL STABILITY	This material is stable under normal ambient and anticipated storage and handling conditions.
CONDITIONS TO AVOID	Static charge build up, ignition sources, hot surfaces and strong heating.
INCOMPATIBLE MATERIALS	Strong oxidising agents. Concentrated mineral acids and extremely caustic substances.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon dioxide, carbon monoxide, and flammable vapours/gases, of unknown composition.
HAZARDOUS REACTIONS	Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

The information given is based on practical observations in humans and health effects data from the major components of this mixture.

ACUTE HEALTH EFFECTS

Swallowed: Ingestion may lead to irritation of the throat and digestive tract and cause coughing, headaches, dizziness, nausea, vomiting, convulsions and coma. Risk of aspiration into lungs when vomiting which may result in lung damage.

Eyes: Strong eye irritant; may produce redness, lachrymation, stinging and possibly conjunctivitis.

Skin: Skin irritant. If contact area is not washed immediately, irritation, redness, itching and ultimately drying of the skin may result. May cause photosensitivity of affected skin.

Inhaled: Inhalation of vapour, mist or aerosols, particularly at concentrations above the recommended exposure limit, may cause headaches, drowsiness, dizziness, nausea, irritation of the upper respiratory tract and ultimately unconsciousness.

CHRONIC HEALTH EFFECTS

Prolonged or repeated contact may cause defatting of the skin, which may lead to irritant contact dermatitis. This mixture contains ingredients that are classified as being either a sensitiser, carcinogenic, mutagenic or toxic for reproduction. However the level of these ingredients in this mixture is so low and so variable that the likely health effect outcome to long-term exposure of this mixture is unpredictable.

12. ECOLOGICAL INFORMATION

The ecological effects of this mixture are unknown. Given the variability of the type and quantity of ingredients, and the mixture's ready separation into several phases makes it impossible to calculate a valid ecotoxic profile for this mixture. However, some of the declared ingredients do have an 'N' classification and the mixture is classified a *marine pollutant* under the various transport codes, which suggests that this mixture can be expected to have a detrimental effect on the environment.

13. DISPOSAL CONSIDERATIONS

This material and its empty containers are classified as prescribed waste and may only be disposed of in accordance with applicable State and local regulations. These regulations vary from jurisdiction to jurisdiction and hence the user is counselled to seek advice from the local authority and classify the waste before considering disposal. The disposal information given below is a general guide and does not replace the requirement of the local regulations

DISPOSAL If possible recycle, otherwise dispose strictly in accordance with local industrial waste or environmental protection regulations. This substance may, if permitted by local authorities, be disposed of in an approved incineration facility. Send empty drums to a drum recycling organisation (ensure that the labels are legible and remain on the drums).

SPECIAL PRECAUTIONS Do not allow this material to contaminate sewerage systems, soil, surface or ground water. The empty drums must not be reused, cut, welded drilled or subjected to a grinding operation or be stored in the vicinity of such operations. When large amounts of this product need to be disposed of the services of a registered, professional waste disposal or recycling organisation is highly recommended.

14. TRANSPORT INFORMATION

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This product has been classified as Dangerous Goods. It must be transported, labelled and the transport vehicle placarded in accordance with the relevant transport code.

TRANSPORT INFORMATION	ADG	IMDG/IMO	ICAO/IATA
UN Number	1263	1263	1263
Proper Shipping Name	PAINT RELATED MATERIAL (Contains: flammable hydrocarbons)		
Class	3	3	3
Packaging Group	11	11	11
Hazchem Code	• 3WE	• 3WE	• 3WE
Ecology status	Not applicable	MARINE POLLUTANT	Not applicable

15. REGULATORY INFORMATION

AICS All ingredients are listed in the AICS
SUSMP A Schedule 5 poison.

16. OTHER INFORMATION

ACRONYMS

- ACGIH:** American Conference of Governmental Industrial Hygienists
- ADG Code:** Australian Code for the Transport of Dangerous Goods by Road and Rail
- ICS:** Australian Inventory of Chemical Substances.
- AMSA:** Australian Maritime Safety Authority
- CAS Number:** Chemical Abstracts Service Registry Number
- CNS:** Central nervous system
- DG:** Dangerous Goods
- Hazchem Code:** An emergency action code of numbers and letters, which gives information to emergency services.
- IARC:** International Agency for Research on Cancer.
- IATA:** International Air Transport Association
- ICAO:** International Civil Aviation Organization
- IMDG:** International Maritime Dangerous Goods Code
- IMO:** International Maritime Organization
- N.O.S.:** Not otherwise specified.
- NOHSC:** National Occupational Health and Safety Commission.
- PPE:** Personal protection equipment.
- SUSMP:** Standard for the Uniform Scheduling of Medicines and Poisons.
- UN Number:** United Nations Number

IMPORTANT NOTE:

AUTHORISATION

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Whilst the information contained in this document is based on data which, to the best of our knowledge, was accurate and reliable at the time of preparation, no responsibility can be accepted by us for errors and omissions. The provision of this information should not be construed as a recommendation to use any of our products in violation of any patent rights or in breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, no responsibility can be accepted by us for any loss or damage caused by any person acting or refraining from action as a result of this information.

END OF SDS