



**MATERIAL
SAFETY
DATA SHEET**
Revised 1st October, 2006

WHITE KNOTTING FLUID

SECTION 1: IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY

Product/Material: WHITE KNOTTING FLUID
Product No: POWKGEN
Supplier: R.K. & J. Jones Limited
Address: Southery Road, Feltwell
 Thetford, Norfolk, IP26 4EH, UK.
Telephone: 01842 828101

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	EC No:	CAS No.	CONTENTS	CLASSIFICATION
Ethanol	200-578-6	64-17-5	30-60%	F;R11

The Full Text for all R-Phrases are Displayed in Section 16

SECTION 3: HAZARDS IDENTIFICATION

Highly Flammable.

CLASSIFICATION F;R11

HUMAN HEALTH Ingestion may cause nausea, vomiting, incoordination, visual impairment and loss of consciousness.

SECTION 4: FIRST AID MEASURES

Eye Contact: Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes and get medical attention.

Skin Contact: Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if irritation persists after washing.

Inhalation: Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion: Immediately rinse mouth and provide fresh air. **DO NOT** induce vomiting. Get medical attention immediately. If there is difficulty breathing, give oxygen. If breathing stops or shows signs of failing, apply artificial respiration.

SECTION 5 : FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA Use: water spray, fog or mist. Alcohol resistant foam. Dry chemicals, sand , dolomite etc. Carbon Dioxide (CO₂)

SPECIAL FIRE FIGHTING PROCEDURES:

Move container from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours. Keep run-off water out of sewers and water sources. Dike for water control. Withdraw immediately in case of rising sound from venting safety device or any discolouration of tanks due to fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapours are heavier than air and may spread near ground to source of ignition. May travel considerable distance to source of ignition and flash back.

SPECIFIC HAZARDS

Fire creates: Carbon Dioxide (CO₂) Carbon Monoxide (CO)

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear suitable protective clothing as specified under section 8 of this safety data sheet – Exposure Controls and Personal Protection.

SPILL CLEAN UP METHODS Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Stop leak if possible without risk. DO NOT TOUCH

SPILLED MATERIAL.

Runoff or release to sewer, waterway or ground is forbidden. Inform Authorities if large amounts are involved. Absorb in vermiculite, dry sand or earth and place into containers.

SECTION 7 : HANDLING AND STORAGE

USAGE PRECAUTIONS – Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Ground transfer equipment and containers to prevent any possibility of static discharge.

STORAGE PRECAUTIONS Flammable/combustible – keep away from oxidisers, heat and flames. Store in tightly closed original container in a cool, dry well ventilated place.

STORAGE CLASS Flammable liquid storage.

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std	LT-ppm	LT-mg/m ³
Ethanol	OES	1000ppm	1920 mg/m ³

Protective Equipment:

Wear Oil resistant gloves and suitable eye protection.

PROCESS CONDITIONS – Use only in well ventilated area.

ENGINEERING MEASURES – Provide adequate general and local exhaust ventilation. Explosion-proof general and local exhaust ventilation.

RESPIRATORY EQUIPMENT	– No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended Occupational Exposure Limit.
HAND PROTECTION	Use protective gloves made of Nitrile, Neoprene, Polyvinyl alcohol (PVA). Viton-Rubber (fluoro-rubber)
EYE PROTECTION	Wear splash proof eye goggles to prevent any possibility of eye contact.
OTHER PROTECTION	Provide eyewash, quick drench.
HYGIENE MEASURES	Wash at the end of each shift and before eating, smoking and using the toilet. DO NOT SMOKE IN WORK AREA. Eating, smoking and water fountains prohibited in immediate work area. Wash promptly if skin becomes wet or contaminated.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

Appearance:	Liquid
Odour:	Unpleasant
Solubility Description:	Soluble in water
Boiling Point/Boiling Range(°C):	78 760mm Hg
Viscosity	1.22 cps 20
Flash Point (°C)	12 CC (closed cup)
Auto Ignition Temp.	365
Vapour Pressure:	58.0 mbar 20oC
Relative Density:	0.81 20oC

SECTION 10 : STABILITY AND REACTIVITY

STABILITY	Stable under normal temperature conditions.
CONDITIONS TO AVOID	Avoid contact with strong oxidisers. Avoid heat, flames and other sources of ignition.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 – LD 50

TOXICOLOGICAL INFORMATION – Fatal dose in man 300-400ml.

Inhalation:	Exposure to organic solvent vapours in excess of the stated occupational exposure limit may result in adverse effects such as irritation of the mucous membrane and the respiratory system and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
Skin Contact:	Prolonged or repeated skin contact with the product may cause removal of the natural fats from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Absorption of organic solvents through the skin may cause some of the same acute and chronic effects as inhalation.
Eye Contact:	Spray and vapour in the eyes may cause irritation and smarting.

Ingestion:	Ingestion may cause: dryness of mouth and throat. Drowsiness, dizziness, disorientation, vertigo. May cause liver and/ or renal damage.
Route of entry:	Ingestion. Skin absorption. Inhalation.
Target Organs:	Eyes, Central Nervous System. Kidneys. Liver. Respiratory System, lungs. Skin.
Medical Symptoms:	Irritation of eyes and mucous membranes. Mild intoxication (including fatigue, lassitude, irritability, headache, nausea) slurred speech.

SECTION 12 : ECOLOGICAL INFORMATION

ECOTOXICITY	No data on possible environmental effects have been found. However ethanol and methanol are readily biodegradable.
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SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	Dispose of waste and residues in accordance with local authority requirements.
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SECTION 14 : TRANSPORT INFORMATION



UK ROAD CLASS:	3	UN ROAD NUMBER:	1263
PROPER SHIPPING NAME:	Paint related material		
UK ROAD PACK GRP:	III		
ADR CLASS NO:	3	ADR CLASS:	Class 3
ADR PACK GROUP:	III	HAZARD NO: (adr)	30
ADR LABEL NO:	3	HAZCHEM CODE:	3Y
RID CLASS NO:	3	CEFIC TEC NO:	30gf1-III, 30gf1-SP
RID PACK GROUP:	III	UN No. SEA	1263
IMDG CLASS	3	IMDG PAGE NO:	3
IMDG PACK GR:	III	EMS:	F-E, S-E
MARINE POLLUTANT:	NO	UN AIR NO:	1263
ICAO CLASS:	3	AIR PACK GR:	III

SECTION 15 : REGULATORY INFORMATION**Labelling:**

Risk Phrases:	R11	Highly Flammable
Safety Phrases:	S-9	Keep container in a well ventilated place.
	S16	Keep away from sources of ignition- no smoking
	S51	Use only in well-ventilated areas
	S60	This material and its container must be disposed of as hazardous waste.

SECTION 16 : OTHER HEALTH AND SAFETY INFORMATION

References should be made to the Health & Safety at Work Act.

Disclaimer:

If this product is re-distributed and re-formulated for sale, details of its hazards and recommended methods for safe handling must be passed to customers. Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by a work activity using this product is undertaken before this product is used.

Note: The information contained in this Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other Health & Safety Legislation (e.g. the Health and Safety at Work Act, 1974; the Control of Substances Hazardous to Health Regulations, 1988). The data given here is based on current knowledge and experience. The purpose of this data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.

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MSDS BTWK OCT 06