

SAFETY DATA SHEET – QWIKSHOT

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT: QWIKSHOT

APPLICATION: Refrigerant/Oil Acid Treatment

COMPANY UNDERTAKING IDENTIFICATION: Advanced Engineering Ltd.
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Philanthropic Road, Redhill,
Surrey, RH1 4DP, England
Telephone: +44 (0) 1737 859900
Emergency Telephone No.: Same as Above
FAX: +44 (0) 1737 859700

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Description: Blended Acid Treatment

Hazardous Components: Ethyl Alcohol
Methyl Alcohol
Ethyl Acetate

3. HAZARDS IDENTIFICATION

Highly Flammable

4. FIRST AID MEASURES

Eyes	If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.
Skin	Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.
Inhalation	If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention. Keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.
Ingestion	Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. If individual is conscious and alert, induce vomiting by giving syrup of ipecac or by gently placing two fingers at the back of the throat. If possible, do not leave individual unattended.
Other	<u>NOTICE TO PHYSICIANS:</u> This product contains methanol. Methanol is metabolized to formaldehyde and formic acid. These metabolites may cause metabolic acidosis, visual disturbances, and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used as an antidote. Methanol is effectively removed by hemodialysis.

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Dry chemical, carbon dioxide, foam.
Hazardous Decomposition Products:	Toxic fumes of carbon dioxide and carbon monoxide.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus in positive pressure mode with confined face piece.
Unusual Fire And Explosion Hazards:	Never use welding or cutting torch on or near contents because product can ignite explosively.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES	Do not permit product to enter streams, sewers, or other waterways. Eliminate all ignition sources. Dike spill and eliminate leak. Absorb with vermiculite or other absorbent. Transfer absorbent to closed containers for disposal.
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7. EXPOSURE CONTROLS/PERSONAL PROTECTION

Use in a well ventilated area. If mist is formed or exposure limit of product is exceeded, use of a NIOSH/MSHA approved respirator is advised. Provide sufficient mechanical, general, and/or local exhaust to maintain exposure below TLV.

Wear resistant gloves; safety glasses or splash goggles are advised. Do not take any food or drink, or handle tobacco products while in contact with this product.

8. HANDLING AND STORAGE

HANDLING	Avoid prolonged or repeated breathing of vapours, mists, fumes. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin and clothing.
STORAGE	Avoid ingestion and inhalation. Store in a cool dry location. Keep container tightly closed. Do not store near heat, flames or strong oxidants. Maintain adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (760 mm Hg):	82 – 250 °C
VAPOUR PRESSURE:	16 mm Hg (20 °C)
VAPOUR DENSITY (AIR = 1):	ND
SPECIFIC GRAVITY (WATER = 1):	0.91
PERCENT VOLATILES:	< 40%
FLASH POINT	12°C (Setaflash Method)
FLAMMABILITY LIMITS	Lower – 3%, Upper – 26%
EVAPORATION RATE:	ND
APPEARANCE:	slight amber colour
ODOUR:	characteristic odour

10. STABILITY AND REACTIVITY

STABILITY:	Stable
HAZARDOUS POLYMERIZATION:	Has not been reported.

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INCOMPATIBILITY:	Avoid contact with oxidizing agents, heat, flames.
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11. TOXICOLOGICAL INFORMATION

EXPOSURE LIMITS: PEL 400 PPM 200 PPM (SKIN) TLV 400 PPM 200 PPM (SKIN)

EYES: Exposure causes eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

SKIN: Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking, skin burns, and dermatitis. Skin absorption is possible, and may contribute to symptoms of toxicity from other routes of exposure.

SWALLOWING: Single dose oral toxicity is moderate. Swallowing may be harmful.

TARGET ORGANS: This product contains ethanol. Alcoholic beverage consumption has been associated with brain damage, heart damage, and pancreatitis in humans. The relevance of these findings to ethanol exposure in industrial environments is uncertain. Exposure to lethal concentrations of ethanol has been shown to cause damage to organs including liver, kidneys, pancreas, heart, lungs, and brain. Although this rarely occurs, survivors of severe intoxication may suffer from permanent neurological damage. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate pre-existing disorders of these organs in humans: central nervous system damage, brain damage, testis damage, liver damage, pancreatic damage, anaemia, kidney damage, lung damage. Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans, and may aggravate pre-existing disorders of these organs: visual impairment, liver damage.

CANCER INFORMATION: IARC (International Agency for Research on Cancer) has determined that exposure to ethanol through chronic human consumption of alcoholic beverages can cause cancer. Alcoholic beverage consumption has also been associated with birth defects, brain damage, heart damage, pancreatitis in humans. The relevance of these findings to ethanol exposure in industrial environments is uncertain.

12. ECOLOGICAL INFORMATION	No available data.
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13. DISPOSAL CONSIDERATIONS	Absorb in vermiculite or dry sand and dispose of in accordance with local regulations.
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14. TRANSPORT INFORMATION

Packaging	30ml. Plastic bottles
UN number	1993
Proper shipping name	Qwikshot
Road:	
ADR class No:	3.2
ADR item No:	3(b)
ADR label No:	3
Hazchem code:	2YE
Cefic Tec(R) No:	32

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Rail:	
Rail transport class No:	3
Railroad Pt:	3b
Sea:	
Sea transport class No:	3.2
IMDG page No:	3074
Sea pack GR:	II
Air:	
Air transport class No:	3
Air pack GR:	II

15. REGULATORY INFORMATION

Supply Classification		Highly Flammable
Risk Phrases:	R-11	Highly flammable.
Safety Phrase:	S-2	Keep out of reach of children.
	S-7	Keep container tightly closed.
smoking	S-16	Keep away from sources of ignition -No
UK regulatory reference:	Highly Flammable Liquid Regulations 1972. Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 1988.	
EC Directives:	Substances directive 67/548/EEC as amended by 69/81/EEC, 70/189/EEC, 73/146/EEC, 75/409/EEC, 79/831/EEC. General Preparations Directive 88/379/EEC.	
Statutory Instruments:	The Health and Safety at Work etc. Act 1974 C.H.I.P. 2 Regulations.	
Approved Code of Practice:	The Control of Substances Hazardous to Health	
Guidance Notes:	Occupational Exposure Limits EH4	

16. OTHER INFORMATION

The information contained in this document only covers the hazards presented by this material, it does not constitute a workplace risk assessment.

The information contained in this Safety Data Sheet is based on present knowledge. It provides guidance on health, safety and environmental aspects of the product. The specific conditions of use of the product are outside the suppliers control.

The data and advice given apply when the product is sold for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

17. REVISIONS AND DATES

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