



This Safety Data Sheet has been prepared in accordance with the requirements of EC Directive 1999/45/EC and provides information relating to the safe handling and use of the product.

QTEK METAL CLEAN

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Metal Clean

Manufacturer: QTEK Manufacturing Ltd.,
Riverside Commercial Estate,
Tuam Road,
Galway,
Ireland.

Telephone Number: (+353) 91 745160

Fax Number: (+353) 91 751299

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Components</u>	<u>CAS Number</u>	<u>EU Number</u>	<u>Hazard</u>	<u>Risk</u>	<u>Approx. Content</u>
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No ingredients identified as hazardous are known to be present.

SECTION 3: HAZARDS IDENTIFICATION

Main Hazard: Slightly irritating to skin and eyes.

Routes of entry:

Inhalation:	Yes	Skin contact:	Yes
Skin absorption:	Yes	Ingestion:	Yes

Potential health effects: Inhalation of high vapour/aerosol concentrations (greater than approximately 100 ppm) are irritating to the eyes and respiratory tract and may cause headaches, dizziness, anaesthesia, drowsiness, and other central nervous system effects, including death. Slightly irritating to eyes but does not injure eye tissue. Skin contact produces low order of toxicity. Frequent and prolonged contact may irritate and cause dermatitis. Skin contact may aggravate an existing dermatitis condition. Ingestion produces minimal toxicity. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

SECTION 4: FIRST AID MEASURES

Emergency and First Aid Procedures for Overexposure:

Eye Contact	Immediately flush with water for 15 minutes while lifting eyelids and rolling eyes. Get immediate medical attention.
Skin Contact	Wash promptly with soap and water. May dry out skin. Seek medical attention if irritation occurs. Remove contaminated clothing. Launder clothing before re-use.
Inhalation	Remove person to fresh air. If necessary restore and support breathing. If breathing is difficult, give oxygen. Get immediate medical attention.
Ingestion	Get immediate medical attention. DO NOT induce vomiting. Keep at rest.

SECTION 5: FIRE FIGHTING MEASURES

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Flash point: (TCC) 37° Celsius

Flammable Limits in Air: UL = 9.6% v/v, LL = 1.2% v/v

General Hazard: Combustible liquid.

Fire Fighting: Fire fighters should have eye protection and wear positive pressure, full face, self-contained breathing apparatus. Use water spray to cool containers exposed to fire and to protect personnel. Isolate “fuel” supply from fire. Avoid spraying water directly into storage containers due to danger of boil over.

Extinguishing Media: Alcohol foam, carbon dioxide, dry chemical, water spray for dilution to non-flammable mixture.

Decomposition Products Under Fire Conditions:
None known.

Unusual Fire and Explosion Hazards:
Combustible Liquid. Can form combustible mixtures at temperatures at or above the flash point. Static discharge. Material can accumulate static charges, which can cause incendiary electrical discharge. Empty containers retain product residue (liquid and/or vapour) and can be dangerous. Do not pressurise, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner or properly disposed of.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Material Release or Spill: Eliminate sources of ignition. Pick up spill on absorbent, non-combustible material and place in covered container for disposal. Flush or wipe area with water to remove last traces. Prevent liquid from entering sewers, watercourses, or low areas.

SECTION 7: HANDLING AND STORAGE

Handling and Storage: Store in cool, dry, well-ventilated location away from incompatible materials and ignition sources. Do not store in open, unlabeled or mislabelled containers. Separate from oxidising agents. Keep containers tightly closed. Protect material from direct sunlight. Material will accumulate static charges, which may cause an electrical spark (ignition source). Use proper grounding procedures. Avoid contact with skin, eyes, and clothing. Avoid breathing mists and vapours. Avoid prolonged and repeated exposure. Use appropriate personal protective equipment. Do not water contact lenses when working with this material. No smoking, eating or drinking in handling areas.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protection: Under normal ventilated use conditions, personal respiratory protection is typically not required. If misting or vapours occurs, use NIOSH approved organic vapour air purifying respirator. Use

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impervious chemical gloves. Long sleeves, aprons or other protective clothing is suggested to avoid skin exposure. Use chemical safety goggles, face shield, or safety glasses for eye protection. Do not wear contact lenses when working with this material. Have eyewash and safety shower readily available.

Workplace Exposure Guidelines:

Avoid direct contact with this material. General ventilation and local exhaust required to minimise or eliminate exposure to mists and vapours. Do not eat, drink or smoke when working with this material.

Electrostatic Accumulation Hazard:

Use proper grounding procedures. Additional information regarding safe handling of products with static accumulation potential can be ordered by contacting the American Petroleum Institute (API) for API Recommended Practice 2003, entitled "Protection Against Ignitions Arising Out of Static, Lightning and Stray Currents" (American Petroleum Institute, 1720 L Street Northwest, Washington DC, USA 20005), or the national Fire Protection Association (NFPA) for NFPA 77 entitled "Static Electricity" (National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA, USA, 02269-9101).

Note:

Personal protection information given is based upon the general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

Exposure Guidelines:

None established for product as whole.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid
Odour	Minimal to no odour
Boiling Point	153 - 177° Celsius (Approx.)
Vapour Pressure	2.3 mm Hg @ 20°C
Solubility in Water	< 0.10% at 20°C
Specific Gravity	0.74 - 0.76 (at 15.5°C)

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Hazardous Polymerisation: Will not occur.

Incompatible Materials: Strong oxidising agents.

Conditions to avoid: Heat, sparks, flame or other sources of ignition.

Hazardous Decomposition Products:
None Known.

SECTION 11: TOXICOLOGICAL INFORMATION

No information exists for product as whole.

Health Hazards (Acute and Subchronic):
No data available.

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Health Hazards (Chronic): No data available.

Mutagenicity: No data available.

SECTION 12: ECOLOGICAL INFORMATION

Mobility: This product will not readily dissolve in water.
Degradability: This product is readily biodegradable.
Bio-accumulation: No data available.
Ecotoxicity: Poses a significant risk of oxygen depletion in aquatic systems.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal of Material: Waste must be disposed of in accordance with government environmental control regulations. Empty containers must be handled with care due to product residue. This material is not a US EPA hazardous waste.

SECTION 14: TRANSPORT INFORMATION

US D.O.T. Shipping Name: Compounds, Cleaning Liquid
US D.O.T. Hazard Class: 3
U.N. / N.A. Number: NA1993
US D.O.T. Label: Combustible
Packing Group: 3

SECTION 15: REGULATORY INFORMATION

Label Information: Irritant
Risk Phases: R36 Irritating to the eyes
Safety Phrases: S2 Keep out of reach of children
S39 Wear eye/face protection

EC Annex 1 Classification: None

Regulations / References: Refer to the requirements of all relevant local regulations.

SECTION 16: OTHER INFORMATION

NFPA Rating: H=1, F=2, R=0
Effective Date: 3 November 1997

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MATERIAL SAFETY DATA SHEET

Part No.:4505/3510/3511/6550

Revision Date: 17th January 2006

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Sections Revised: All, new format

This material data sheet adheres to ANSI standard ANSI Z400.1-1993

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