

PRODUCT SAFETY DATA SHEET

HOROTECH SPIRIT BASED WATCH, CLOCK & INSTRUMENT CLEANER

Product Description

A mixed solvent based liquid cleaner, which is suitable for removing grease, oil, dirt and tarnish.

For use in Watch Cleaning Machines, Ultrasonic & Manually

Directions

Agitate the parts in a bath of Horotech Cleaner for a few minutes. Remove the cleaned parts, and drain thoroughly. Agitate the cleaned parts in a bath of Horotech Rinse and drain again. Repeat, using a second bath of clean Rinse.

Dry in hot air. (CAUTION : FLAMMABLE)

PRODUCT SAFETY DATA SHEET

(1) IDENTIFICATION

Product Name: Horotech Cleaner
Supplier: Horological Solvents,
Barnside, 194 Wellington Road, Bury, Lancs. BL9 9AH
Tel: 0161 764 2741
Fax: 0161 764 8696

(2) COMPOSITION / INFORMATION ON INGREDIENTS

Material	CAS number	Level	Hazards (see section16)
White Spirit	64782-82-1	70-100%	Xn R65 R10 R52/53
Ammonia	1336-21-6	0-1%	C R34 R37 R50
Propan-2-ol	67-63-0	5 –15%	F R11 R36 R67

(3) HAZARDS IDENTIFICATION (Undiluted Product)

Chips Classification : Highly flammable, Harmful

Eye Hazard: Will cause discomfort
Skin Hazard: Prolonged or repeated contact may cause irritation/dryness.
Respiratory Hazard: Excessive exposure may cause irritation of the respiratory tract, headache, dizziness and nausea.
Flammability Hazard: Highly flammable

(4) FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water, holding eyelids apart for at least 10 minutes. Seek medical assistance immediately.
Skin Contact: Remove contaminated clothing, wash skin with soap and water. Seek medical attention if irritation persists.
Inhalation: In case of over exposure, remove to fresh air. Keep warm and at rest, Seek medical assistance immediately.
Ingestion: Do not induce vomiting. Seek medical assistance immediately.

(5) FIRE FIGHTING MEASURES

Use foam, dry powder or carbon dioxide.

(6) ACCIDENTAL RELEASE

Exclude sources of ignition, provide ventilation. Absorb using sand or other inert material and transfer to suitable containers for disposal.

(7) HANDLING & STORAGE

Store in a cool, dry place protected from frost and away from acids, strong oxidising agents and sources of ignition. Store upright in original containers.

Shelf life : months in good conditions.

(8) EXPOSURE CONTROLS / PERSONAL PROTECTION

These measures are suggested on the basis of general use methods and may not be appropriate to all potential uses of the product. The user is responsible for carrying out a full risk assessment of their specific processes and systems of work.

Eye Protection: Wear chemical splash goggles to BS EN 166 34B
Hand Protection: Wear nitrile or neoprene gloves. Exact choice of glove depends on specific risk assessments
Body Protection: As necessary to prevent contact.
Respiratory: Use in a well ventilated area. Avoid breathing vapour or spray. Wear a respirator if necessary.

Personal protective equipment : Exact PPE requirements should be determined from a specific risk assessment of the processes being carried out.

Occupational exposure limits

Ammonia	35ppm	OES 8 hour TWA
Propan-2-ol	400ppm	OES 8 hour TWA
White Spirit	1000mg/m ³	OES 8 hour TWA

(9) PHYSICAL & CHEMICAL PROPERTIES

Appearance: Colourless / pale yellow liquid
Odour: Ammonia / Solvent
PH: Not applicable
Boiling Point: 82°C
Melting Point: Not applicable
Flash Point: <23°C
Auto Ignition Temp. >200°C
Explosive Properties: Not applicable.
Oxidising Properties: Not applicable
Vapour Pressure: No data
Relative Density: at 20°C (typical) : 0.793
Solubility: Emulsifies with water
Viscosity: Free flowing.

(10) STABILITY & REACTIVITY

Conditions to avoid: Extremes of temperature. Sources of ignition.
Materials to avoid: Incompatible with strong oxidising agents and acids
Hazardous Decomposition Products : May produce toxic fumes in fire.

(11) TOXICOLOGICAL INFORMATION

Eye Contact: Will cause discomfort
Skin Contact: Prolonged or repeated contact may cause irritation / dryness.
Inhalation: Excessive exposure may cause irritation of the respiratory tract, headache, dizziness and nausea.
Ingestion: Moderate toxicity. Main danger is of lung damage by aspiration.
Long Term: Based on current knowledge, no long term effects are anticipated if used correctly.

(12) ECOLOGICAL INFORMATION

May affect aquatic organisms due to hydrocarbon content if released into water courses untreated.

(13) DISPOSAL CONSIDERATIONS

Dispose of surplus product and packaging via a licensed chemical waste contractor.
Dispose of used cloths carefully – fire hazard.

(14) TRANSPORT INFORMATION

Transport Classification :	Flammable
UN Number :	1993
Transport Classification :	3
Packing Group :	2

(15) REGULATORY INFORMATION

Classified : Highly Flammable, Harmful

Product risk and safety phrases

R11 Highly Flammable

R65 Harmful, may cause lung damage if swallowed.

R52/53 Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

S2 Keep out of reach of children

S16 Keep away from sources of ignition, no smoking

S24/25 Avoid contact with skin and eyes

S23 Do not breathe vapour / spray

S46 If swallowed, seek medical advice immediately and show this container or label.

Relevant UK law : Chemicals (hazard information and packaging) Regulations (CHIP) Control of substances hazardous to health regulations (COSHH, COSHH essentials). For guidance see www.hse.gov.uk, www.dti.gov.uk/chemicals.

(16) OTHER INFORMATION

R phrases relating to ingredients (see section 2)

R10 Flammable

R11 Highly flammable

R34 Causes burns

R37 Irritating to respiratory system

R50 Very toxic to aquatic organisms

R52/53 Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

R65 Harmful, may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

This product should be stored, handled and used in accordance with good industrial practice and in conformity with legal regulations. The information in this data sheet is based on the present state of our knowledge and is intended to describe products from the point of view of safety requirements and thus should not be construed as guaranteeing specific properties. It is for users to satisfy themselves of the suitability of this product for their own applications

