

MANUFACTURER/SUPPLIER:

TECHNICAL CONCEPTS INTERNATIONAL LIMITED
THE NEUTRALLE CENTRE
PIN GREEN BUSINESS PARK
EASTMAN WAY, STEVENAGE, HERTS, SG1 4UH

MATERIAL SAFETY DATA SHEET
 ACCORDING TO 91/155/EC (as amended 2001/58/EC)
 ISSUING DATE: December 2003

SECTION 1 - IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Details.

Trade Name: Technical Concepts
Neutrale Autojanitor Cleaner & Deodouriser
Fragrance: Expressions.

Use: Non-pressurised pump refill containing a fragranced, disinfectant and cleaning solution for use in combination with proprietary automated dispensers.

Supplier: Technical Concepts International Ltd.,
 The Neutrale Centre
 Pin Green Business Park
 Eastman Way, Stevenage, Herts, SG1 4UH

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Informing Department: Technical Services Department

SECTION 2 - COMPOSITION/DATA ON COMPONENTS

Chemical Characterisation

Description: Mixture of water, alcohols, ethoxylated alcohol, perfume and preservative

Dangerous Components:

Designation	CAS No.	EC No.	Symbol	R-Phrases	%
Propan-2-ol	67-63-0	200-661-7	Xi, F	11-36-67	5 – 10
Ethanol	67-17-5	200-578-6	F	11	10 – 15
Ethoxylated alcohol	68439-45-2	None (polymer)	Xn	22-41	5 – 10
Benzalkonium chloride	None	None (preparation)	C, N	21/22-34-50	1 – 5
Citronellol	106-22-9	203-375-0	Xi, N	38-43-51/53	< 1
Hexyl cinnamal	101-86-0	202-983-3	Xi	43	< 1
Para-Mentha-1,4(8)-diene	586-62-9	209-578-0	Xn, N	10, 51/53,65	<1

SECTION 3 - HAZARDS IDENTIFICATION

Hazard Designation: Xi Irritant

Information pertaining to particular dangers for man and environment:

R10 Flammable
 R36 Irritating to eyes
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Classification System The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

SECTION 4 - FIRST AID MEASURES

After inhalation	Supply fresh air, consult a doctor if symptoms develop.
After skin contact	Remove soaked clothing and launder before reuse. Wash skin with water and soap. If symptoms develop or persist, consult a doctor.
After eye contact	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing	Rinse mouth. DO NOT INDUCE VOMITING. Consult a doctor.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Agents:	CO ₂ , extinguishing powder or alcohol-resistant foam.
For safety reasons unsuitable extinguishing agents:	Water jet.
Special hazards caused by the material, its products of combustion or flue gases:	In case of fire CO may be possible.
Protective Equipment:	Wear protective clothing/equipment when fighting fires.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away.
Measures for environmental protection:	No special measures required.
Measures for cleaning/collecting:	Ensure adequate ventilation. Absorb liquid components with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust).

SECTION 7 - HANDLING AND STORAGE

Handling

Information for safe handling:	Ensure good ventilation/exhaustion at the workplace.
Information about protection against explosions and fires:	Keep ignition sources away - Do not smoke. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire, even after use. Do not spray on flames or red-hot objects

Storage

Requirements to be met by storerooms and containers:	Store between 5 – 30°C. Observe official regulations on storing flammable packagings.
Information about storage in one common storage facility:	Do not store together with strong acids and strong oxidising agents.
Further information about storage conditions:	Keep product tightly sealed. Protect from heat and direct sunlight.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical systems:

No further data; see item 7.

Components with critical values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information:

OEL - Values:	EH40(2002)			
	Ethanol	OES	8hr TWA -	1000 ppm (1920 mg/m ³)
	Isopropanol	OES	8hr TWA -	400 ppm (999 mg/m ³)
			15min STEL	500 ppm (1250 mg/m ³)
	Monopropylene glycol			
	Total (vapour & particulates)	OES	8hr TWA -	150 ppm (474 mg/m ³)
	Particulates	OES	8hr TWA -	10 mg/m ³

Personal protective equipment**General protective and hygienic measures:**

Wash hands during breaks and at the end of the work.

Breathing equipment:

Not required, but ensure adequate ventilation when using the product.

Protection of hands:

Not required when used as directed.

Eye protection:

Not required when used as directed.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form:

Liquid in pump refill

Colour:

According to Product specification.

Smell:

Perfume

	<u>Value/Range</u>	<u>Unit</u>	<u>Method</u>
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Change in condition**Melting point/Melting range:**

Not determined

Boiling point/Boiling range:

Not determined

Flash point:

31 °C

Self-flammability:

Product is not self-igniting.

Danger of explosion:

Product is not explosive. However, formation of explosive air/steam mixtures is possible.

Critical values for explosion:**Lower:**

1.1 Vol %

Upper:

19.0 Vol %

Density:at 20°C 0.961 – 0.976 g/cm³**pH – Value:**

5.2 ± 0.5

Viscosity dynamic:

at 20°C 5 ± 2 mPa.s

Solubility in/Miscibility with Water:

Miscible

SECTION 10 - STABILITY AND REACTIVITY

Thermal decomposition/conditions to be avoided:	No decomposition if used according to instructions.
Dangerous reactions:	No dangerous reactions known.
Materials to be avoided:	Oxidising agents and strong acids.
Dangerous products of decomposition:	In case of fire CO and CO ₂ may be possible.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	
Primary irritant effect:	
On the skin:	Irritation may be possible.
On the eye:	Irritant.

SECTION 12 - ECOLOGICAL INFORMATION

General notes:	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
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SECTION 13 - DISPOSAL CONSIDERATIONS

Product:	
Recommendation:	Disposal must be made according to local regulations via a licensed waste contractor.
Uncleaned packagings:	
Recommendation:	Disposal must be made according to local regulations via a licensed waste contractor.

SECTION 14 - TRANSPORT INFORMATION**Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**

ADR/RID Class:	3
UN Number:	1993
Correct technical name:	FLAMMABLE LIQUIDS, NOS (CONTAINS ETHANOL AND ISOPROPANOL)
Packing Group:	III
Label:	Diamond shaped, framed
Remarks:	UN 1993 should be placed inside the diamond shaped label. Goods are classed as "Limited Quantities" and are therefore exempt from ADR regulations. Check local legislation for domestic transport.

Maritime transport IMDG/GGVSea

IMDG/GGVSea Class:	3
UN Number:	1993
EMS Number:	F-E, S-E
Marine Pollutant	No
Correct technical name:	FLAMMABLE LIQUIDS, NOS (CONTAINS ETHANOL AND ISOPROPANOL)
Packing Group:	III
Remarks	- "Dangerous goods of limited quantities of Class 3" is required according to IMDG regulations

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class:	3
UN Number:	1993
Correct Technical Name:	FLAMMABLE LIQUIDS, NOS (CONTAINS ETHANOL AND ISOPROPANOL)
Packing Group:	III
Remarks:	"Limited Quantity"

SECTION 15 - REGULATORY INFORMATION

Designation according to EC Guidelines:	The product has been labelled in accordance with EC Directives/relevant national laws.	
	For Professional use only	
Code letter and hazard designation of product:	Xi	Irritant.
Risk phrases:	10	Flammable
	36	Irritating to eyes
	52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Safety phrases:	2	Keep out of reach of children.
	25	Avoid contact with eyes
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Special label phrase:	Contains Hexyl Cinnamal and Citronellol. May cause an allergic reaction.	
National regulations:		
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.	

SECTION 16 - OTHER INFORMATION**R-phrases used in document:**

R10	Flammable
R11	Highly flammable
R21/22	Harmful in contact with skin and if swallowed
R22	Harmful if swallowed
R34	Causes burns
R36	Irritating to eyes
R38	Irritating to skin
R41	Risk of serious damage to eyes
R43	May cause sensitisation by skin contact
R50	Very toxic to aquatic organisms
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
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 data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing data specification sheet: Technical Services Department.

Contact: Mr. K. Anderson

Sources: Raw material Safety Data sheets
EH40/2002 Occupational Exposure limits (UK)

Revision data: Rev. 7

Rev.7 – Changes to section 14 (marked ')

Rev.6 - Changes to Sections 2 and 15

Rev.5 - Changes to Section 2

Rev.4 - Compliance to CHIP 3 and the 2001/58/EC amendments to 91/155/ECC

Print Date: