

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: April 2004

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

Product Details.

Trade Name: Technical Concepts
Neutrale Microburst 3000 metered aerosols
Fragrance: Oudh.

Use: Fragranced metered aerosol space sprays designed for use in proprietary automated dispensers.

Supplier: Technical Concepts International Ltd.,
 The Neutrale Centre
 Pin Green Business Park
 Eastman Way, Stevenage, Herts, SG1 4UH
 Tel: +44 870 5686824
 Fax: +44 1438 311200

Informing Department: Technical Services Department

SECTION 2 - COMPOSITION/DATA ON COMPONENTS

Chemical Characterisation

Description: Mixture of organic solvents, perfume and propane/iso-butane (propellant)

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
1,1,6,7-Tetramethyl-6-acetyldecalene	54464-57-2	259-174-3	N	51/53	< 1
1-(2-tert-Butyl-cyclohexyloxy)-2-butanol	139504-68-0	412-300-2	N	51/53	< 1
Citronellol	106-22-9	203-375-6	Xi, N	38-43-51/53	< 1
Geraniol	106-24-1	203-377-1	Xi	38-43	< 1
Hexyl cinnamal	101-86-0	202-983-3	Xi	43	< 1
Hydroxycitronellal	107-75-5	203-518-7	Xi	36-43	< 1
Hydroxy -iso-hexyl-3-cyclohexene carboxaldehyde	31906-04-4	250-863-4	Xi	43	< 1
7-Acetyl-1,1,3,4,4,6-hexamethyl-1,2,3,4-tetrahydronaphthalene	21145-77-7	244-240-6	Xn, N	22-50/53	1 – 5

Additional information For the wording of the listed risk phrases refer to section 16.

SECTION 3 - HAZARDS IDENTIFICATION

Hazard Designation: F+ Extremely flammable

Information pertaining to particular dangers for man and environment:

R12 Extremely flammable
 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. Beware: Container is pressurised. 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 in cool location Observe official regulations on storing packagings with pressurised containers.
Information about storage in one common storage facility:	Do not store together with strong acids and strong oxidising agents.
Further information about storage conditions:	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)
Propane				Listed as an asphyxiant with no limit set

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: Aerosol**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 applicable, as aerosol**Boiling point/Boiling range:** Not applicable, as aerosol**Flash point:** Not applicable, as aerosol**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:** 1.8 Vol %**Upper:** 19.0 Vol %**Vapour pressure:** at 20°C 4.0 ± 0.5 bar**Density:** at 20°C 0.619 - 0.645 g/cm³**Solubility in/Miscibility with Water:** Partly 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 may be possible.

SECTION 11 - TOXICOLOGICAL INFORMATION

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

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:	2
UN Number:	1950
Correct technical name:	Aerosols (Flammable)
Label:	Diamond shaped, framed
Remarks:	UN 1950 AEROSOLS 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:	2
UN Number:	1950
EMS Number:	F-D, S-U
Marine Pollutant	No
Correct technical name:	Aerosols
Remarks	"Limited Quantity" AEROSOLS is required according to IMDG regulations

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class:	2.1
UN/ID Number:	1950
Correct Technical Name:	Aerosols, flammable
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:	F+	Extremely flammable.
Risk phrases:	12	Extremely flammable.
	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.
	16	Keep away from sources of ignition - No smoking.
	23	Do not breathe spray.
	51	Use only in well-ventilated areas.
Special label phrase:	Contains Citronellol, Geraniol, Hexyl cinnamal, Hydroxycitronellal and Hydroxy - iso-hexyl-3-cyclohexene carboxaldehyde. May cause an allergic reaction.	
National regulations:		
Special designation of certain preparations:	Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.	
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.	

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

R11	Highly flammable
R12	Extremely flammable
R22	Harmful in contact if swallowed
R36	Irritating to eyes
R38	Irritating to skin
R43	May cause sensitisation by skin contact
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
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, 15 and 16

Rev.5 - Changes to Section 2

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

Print date: