

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

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

**Product Details.**

**Trade Name:** Technical Concepts  
Neutralle Microburst 3000 metered aerosols  
**Fragrance:** Vibrant Sense.

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

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

Tel: +44 870 5686824  
 Fax: +44 1438 311200

**Informing Department:** Technical Services Department

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**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
2,4-Dimethyl cyclohex-3-ene-1-carboxaldehyde	68039-49-6	268-264-1	Xi	36/38-43-52/53	< 1
Geraniol	106-24-1	203-377-1	Xi	38-43	< 1
Citronellol	106-22-9	203-375-0	Xi, N	38-43-51/53	< 1

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

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**SECTION 3 - HAZARDS IDENTIFICATION**

**Hazard Designation:** F+ Extremely flammable

**Information pertaining to particular dangers for man and environment:** R12 Extremely flammable

**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.

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**SECTION 4 - FIRST AID MEASURES**

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

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**SECTION 5 - FIRE FIGHTING MEASURES**

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

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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

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**SECTION 7 - HANDLING AND STORAGE**

**Handling**

<b>Information for safe handling:</b>	Ensure good ventilation/exhaustion at the workplace.
<b>Information about protection against explosions and fires:</b>	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**

<b>Requirements to be met by storerooms and containers:</b>	Store in cool location Observe official regulations on storing packagings with pressurised containers.
<b>Information about storage in one common storage facility:</b>	Do not store together with strong acids and strong oxidising agents.
<b>Further information about storage conditions:</b>	Protect from heat and direct sunlight.

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**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<sup>3</sup>)Isopropanol OES 8hr TWA - 400 ppm (999 mg/m<sup>3</sup>)15min STEL 500 ppm (1250 mg/m<sup>3</sup>)

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.

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**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/cm<sup>3</sup>**Solubility in/Miscibility with Water:**

Partly miscible

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**SECTION 10 - STABILITY AND REACTIVITY**

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

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

<b>Acute toxicity:</b>	
<b>Primary irritant effect:</b>	
<b>On the skin:</b>	Irritation may be possible.
<b>On the eye:</b>	Irritation may be possible.

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**SECTION 12 - ECOLOGICAL INFORMATION**

<b>General notes:</b>	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**

<b>Product:</b>	
<b>Recommendation:</b>	Disposal must be made according to local regulations or via a licensed waste contractor.
<b>Uncleaned packagings:</b>	
<b>Recommendation:</b>	Disposal must be made according to local regulations or via a licensed waste contractor.

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

<b>ADR/RID Class:</b>	2
<b>UN Number:</b>	1950
<b>Correct technical name:</b>	Aerosols (Flammable)
<b>Label:</b>	Diamond shaped, framed
<b>Remarks:</b>	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**

<b>IMDG/GGVSea Class:</b>	2
<b>UN Number:</b>	1950
<b>EMS Number:</b>	F-D, S-U
<b>Marine Pollutant</b>	No
<b>Correct technical name:</b>	Aerosols
<b>Remarks</b>	"Limited Quantity" AEROSOLS is required according to IMDG regulations

**Air transport ICAO-TI and IATA-DGR**

<b>ICAO/IATA Class:</b>	2.1
<b>UN/ID Number:</b>	1950
<b>Correct Technical Name:</b>	Aerosols, flammable
<b>Remarks:</b>	"Limited Quantity"

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**SECTION 15 - REGULATORY INFORMATION**

<b>Designation according to EC Guidelines:</b>	The product has been labelled in accordance with EC Directives/relevant national laws.
	For professional use only
<b>Code letter and hazard designation of product:</b>	F+ Extremely flammable.
<b>Risk phrases:</b>	12 Extremely flammable.
<b>Safety phrases:</b>	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.
<b>Special label phrase:</b>	Contains Geraniol, Citronellol and 2,4-Dimethyl cyclohex-3-ene-1-carboxaldehyde. May cause an allergic reaction.
<b>National regulations:</b>	
<b>Special designation of certain preparations:</b>	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.
<b>Water hazard class:</b>	Water hazard class 1 (Self-assessment): slightly hazardous for water.

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

R11	Highly flammable
R12	Extremely flammable
R36	Irritating to eyes
R36/38	Irritating to eyes and skin
R38	Irritating to skin
R43	May cause sensitisation by skin contact
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
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 Section 2 & 15

Rev.5 - Changes to Section 2

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

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