

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: Expressions.

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

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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 | 5 – 10 |
| 3&4-(4-Methyl-3-penten-1-yl-3-cyclohexene-1-carbaldehyde | 37677-14-8 | 253-617-4 | N | 50/53 | < 1 |
| Citronellol | 106-22-9 | 203-375-0 | Xi, N | 38-43-51/53 | < 1 |
| Methyl-2-aminobenzoate | 134-20-3 | 205-132-4 | Xi | 36/38 | < 1 |
| para-Mentha-1,4 (8)-diene | 586-62-9 | 209-578-0 | Xn, N | 10-51/53-65 | 1 – 5 |
| Hexyl cinnamal | 101-86-0 | 202-983-3 | Xi | 43 | < 1 |
| Citral | 5393-40-5 | 226-394-6 | Xi | 38-43 | < 1 |
| 1-methyl-4-iso-propyl-1cyclohexen-8-ol | 98-55-5 | 202-680-6 | Xi | 38 | 1 - 5 |
| 3,7-dimethyloctan-1-ol | 106-21-8 | 203-374-5 | Xi, N | 38-51/53 | < 1 |
| Turpentine oil – Turpentine | 8006-64-2 | 232-350-7 | Xn, N | 10-20/21/22-36/38 -43-51/53-65 | < 1 |

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

| | |
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| 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 |

(continued)

SECTION 7 - HANDLING AND STORAGE (continued)**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> |
|----------------------------|--------------------|-------------|---------------|
| 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.

(continued)

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (continued)**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 ³ |
| 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. |
|-----------------------|---|

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. |

(continued)

SECTION 14 - TRANSPORT INFORMATION (continued)**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 Citral, Hexyl Cinnamal, Citronellol and Turpentine oil. 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:

| | |
|-----------|---|
| R10 | Flammable |
| R11 | Highly flammable |
| R12 | Extremely flammable |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| R36/38 | Irritating to eyes and skin |
| 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 |
| 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 Section 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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