

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
ISSUING DATE: 12th July 2001

SECTION 1 - IDENTIFICATION OF SUBSTANCE

Product Details.

Trade Name: Technical Concepts
Neutrale Microburst Swak Professional Insecticide

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

SECTION 2 - COMPOSITION/DATA ON COMPONENTS

Chemical Characterisation

Description: Mixture of insecticides, organic solvents and propane/isobutane (propellant)

Dangerous Components:	CAS NO.	Component	Symbol	R-Phrases	%
	67-64-1	Acetone	Xi, F	11-36-66-67	5 -10
	64742-47-8	Distillates (petroleum)	Xn	65-66	5 -10
	51-03-6	Piperonyl butoxide	N	51/53	3.50
	23031-36-9	Prallethrin	Xn, N	20/22-50/53	1.015

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.

SECTION 4 - FIRST AID MEASURES

After inhalation: Supply fresh air, consult doctor in case of symptoms.

After skin contact: Remove soaked clothing; Wash skin with water and soap.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing: Rinse mouth; Do not induce vomiting. Consult a physician.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Agents: CO₂, 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 present.

Protective Equipment: Wear protective equipment/clothing when fighting fires.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: Do not allow to enter drainage system, surface or ground water.

Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

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 packages 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:													
MAC Values:	<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Distillates (petroleum)</td> <td style="width: 10%; text-align: center;">-</td> <td style="width: 30%;">165 ppm</td> </tr> <tr> <td>Acetone</td> <td style="text-align: center;">-</td> <td>750 ppm</td> </tr> <tr> <td>Propane</td> <td style="text-align: center;">-</td> <td>1000 ppm</td> </tr> <tr> <td>isobutane</td> <td style="text-align: center;">-</td> <td>800 ppm</td> </tr> </table>	Distillates (petroleum)	-	165 ppm	Acetone	-	750 ppm	Propane	-	1000 ppm	isobutane	-	800 ppm
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Propane	-	1000 ppm											
isobutane	-	800 ppm											
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:	Characteristic		
	<u>Value/Range</u>	<u>Unit</u>	<u>Method</u>
Change in condition			
Melting point/Melting range:	Not determined		
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:	0.6	Vol %	
Upper:	13.0	Vol %	
Vapour pressure:	at 20°C	4.8 ± 0.5	bar
Density:	at 20°C	0.589 ± 0.006	g/cm ³
Solubility in/Miscibility with Water:	Not miscible or difficult to mix.		

SECTION 10 - STABILITY AND REACTIVITY

Thermal decomposition/ conditions to be avoided:	No decomposition if used according to instructions.
Materials to be avoided:	Strong acids and strong oxidising agents.
Dangerous reactions:	No dangerous reactions known.
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:	At present there are no ecotoxicological assessments.
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SECTION 13 - DISPOSAL CONSIDERATIONS

Product:	
Recommendation:	Disposal must be made according to official and local regulations.
Uncleaned packaging Recommendation:	Disposal must be made according to official and local regulations.

SECTION 14 - TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

UN-Number:	
Label:	Diamond shaped, framed
Remarks:	UN 1950 AEROSOLS should be placed inside the diamond shaped label. This only applies to "Limited Quantities". <ul style="list-style-type: none">- UN 1950 is required according to ADR – regulations.- AEROSOLS is required according to IMDG – regulations.

Maritime transport IMDG/GGVSea

IMDG/GGVSea Class:	2
Page:	2102
UN Number:	1950
EMS Number:	2-13
Marine Pollutant	No
MFAG:	Subsection 4.2
Correct technical name:	Aerosols
Remarks	"Limited Quantity"

SECTION 14 - TRANSPORT INFORMATION (continued)

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: This product has been classified and labelled in accordance with EC Directives / relevant national laws.

The use of Xn (harmful) symbol and Risk phrase 65:
The aliphatic solvents, used in aerosols, are exempt from this regulation because they are classified as "Note 4" components according to EC-directive 94/69. Therefore "harmful" labelling is not necessary.

For Professional use only.

Code letter and hazard designation of product: F+ Extremely Flammable.

Risk phrases: 12 Extremely Flammable.

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 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.

SECTION 16 - OTHER INFORMATION

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
