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MATERIAL SAFETY DATA SHEET

According 91/155/EC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Date: 15 February 2002
Product name: **PAK-Marker**
Supplier: LabQuip Limited
The Black Barn,
White Ox,
Penrith
Cumbria CA11 9NQ
Emergency phone number: 01768 895080

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>Weight %</u>	<u>CAS-No.</u>	<u>Symbol</u>	<u>R-phrases</u>	<u>TLV-value</u>	
					<u>ppm</u>	<u>mg/m³</u>
Acetone	25-50	67-64-1	F, Xi	11	750	1780
White spirit	2.5-10	8052-413	Xn, N	10-51/53-65-66	50	191
Toluene	<2.5	108-88-3	F, Xn	11-20	40	150

3. HAZARDS IDENTIFICATION

Inhalation of high concentrations of solvent and gas vapour has a slightly narcotic effect. The product has a strong degreasing effect on the skin. May form a flammable/explosive vapour/air mixture during use.

4. FIRST AID MEASURES

Inhalation: Take out into the open air and keep warm. Avoid effort. Oxygen or artificial respiration if necessary. If unconscious, place the patient in a stable position on his side and consult a physician.

Contact with eyes: Wash thoroughly with water for at least 10 minutes. Consult a physician.

Contact with skin: Remove polluted clothing. Wash thoroughly with water and soap.

Oral ingestion: Consult a physician immediately if the product is swallowed. Allow patient to rest. Do not induce vomiting.

5. FIRE CONTROL MEASURES

Suited extinguishing media: CO₂, powder, foam.
Unsuited: Water jet

Exposure to decomposition products may form a health hazard. If necessary, use suitable respirators. Prevent extinguishing material from entering the sewer or surface water. If possible, remove stock from danger area, otherwise keep cool with water. There is a risk of the containers bursting on heating.

6. MEASURES ON ACCIDENTAL RELEASE OF THE SUBSTANCE

Use personal protection. Don't inhale vapours. Solvent and gas may form an explosive mixture with air. Remove any such source of ignition and ventilate well. Prevent escaped substance from entering the sewer or surface water; mop up with liquid absorbent substances (e.g. sand or earth) and treat as chemical waste.

7. HANDLING AND STORAGE

Handling: Solvent and gas vapour may form explosive mixtures with air. The vapours are heavier than air and can spread over the floor. Use only in well-ventilated areas. Do not spray on a naked flame or any incandescent material. Avoid inhaling spray-mist.
Keep away from sources of ignition. Keep out of the reach of children.
Avoid contact with eyes and skin. Don't eat, drink or smoke during use.
Wash hands before breaks and after ceasing working.

Storage: Comply according with the local and national principles and laws on the storage of Aerosols. Store in a dry, well-ventilated place. Protect from sunlight and do not expose to temperatures exceeding 50°C. Avoid contact with oxidising agents, bases and acids.

8. MEASURES TO CONTROL EXPOSURE/PERSONAL PROTECTION

Technical measures: Use only in well-ventilated areas. For industrial use, apply vacuum removal at source.

Personal protection

Protection of respiratory tract: Wear suitable respiration protection if ventilation is an inadequate.
Protection of hands: Avoid contact with skin; otherwise wear rubber gloves.
Protection for eyes: Do not spray into eyes; when cleaning up escaped subtonic wear safety goggles against splashing.
Protection for skin: Not applicable.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Aerosol
	Liquid (with gas produced under pressure)
Smell:	Characteristic smell (acetone)
pH:	Neutral
Flashpoint:	Not applicable. (as aerosol)
Vapour pressure (20°C):	3,8 BAR
Vapour pressure (50°C):	<8 BAR
Relative density:	0,75 KG/L
<u>Solubility:</u>	
Water soluble:	28
<u>Explosion limits:</u>	
Lower limit:	1.0 %VOL
Upper limit:	13,1 %VOL

10. STABILITY AND REACTIVITY

Stability:	Stable when used as indicated.
Circumstances to be avoided:	Do not expose container to temperatures exceeding 50°C.
Substances to be avoided:	Keep in a dry place. Avoid contact with oxidising agents, acids and lye.
Hazardous decomposition products:	Do not spray on a naked flame or any incandescent material. May produce CO ₂ and CO on combustion.

11. TOXICOLOGICAL DATA

Inhalation of high concentrations of solvent and gas vapour has a lightly narcotic effect, irritates the mucous membranes and respiratory organs. Symptoms may include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

12. ECOLOGICAL DATA

No experimental data exists regarding the product as such.

13. INSTRUCTIONS FOR REMOVAL

Empty packaging is not minor chemical waste. Treat cans not fully emptied as minor chemical waste.

14. INFORMATION CONCERNING TRANSPORT

Transport by land ADR/RID (cross-border/internal):

-ADR class: 2 compressed, liquidized or pressurised gases.
-digit/letter: 5 F
-UN no.: 1950
-Description of the article: Aerosols

Transport by sea IMDG:

-IMDG class: 2
-Page: 2102
-UN no.: 1950
-EMS no.: 2-13
-MFAG: Subsection 4.2
-Marine pollutant: No
-Proper technical name: Aerosols

Transport by air ICAO-TI and IATA-DGR:

-ICAO/IATA-class: 2.1
-Proper shipping name: Aerosols
-UN/ID no.: 1950

15. MANDATORY INFORMATION

Caution: 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. Keep away from sources of ignition – No smoking. Keep out of the reach of children.

Labelling instructions in accordance with Environmentally Hazardous Substances Act:

Symbol:	F+	Flame
	X1	Irritating to the skin.
R-clauses:	12	Extremely flammable.
S-clauses:	02	Keep out of the reach of children.
	16	Keep away from sources of ignition – No smoking.
	23	Do not inhale gas/vapour/mist.
	38	Wear a suitable respirator if ventilation is inadequate (for industrial applications)
	51	Use only in well-ventilated spaces.

An explosive vapour/air mixture may form if ventilation is inadequate.

16. OTHER INFORMATION

This information relates only to the substance described herein and is based on present knowledge and experience in our possession as we are unfamiliar with the conditions for use, which lie outside our control. This information may not be regarded as a guarantee or indication of the quality of our product. The safety information sheet describes the product with a view to the safety requirements and is not intended as technical product information. The user is at all times responsible for taking the necessary steps of local laws and regulations.