



MATERIAL SAFETY DATA SHEET

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Indu-Tek Permian WR Chain Spray

1. IDENTIFICATION OF THE SUBSTANCE/ USE/ COMPANY DETAILS

Trade Name: Indu-Tek Permian WR Chain Spray
Company Identification: Mako-lube Limited
Units 2 & 3 Mayfield Industrial Estate
Liverpool Road
Irlam
Manchester, M44 6GD
Tel: +44(0)161 777 9970
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info@mako-lube.com
Type of product: **Aerosol**
Use: **Lubricant**

2. HAZARDS IDENTIFICATION

Main Hazards: R12 Extremely flammable.

PRESSURISED CONTAINER - increase in temperature to greater than 50°C will cause internal pressure to rise potentially causing bursting/explosion

Classification F+;R12

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients:

Substance name	Contents	CAS No	EC No	Index No	Classification
Tert-Butylphenol derivative:	< 0.5 %				N; R51-53
Zinc Dialkyldithiophosphate:	< 0.5 %				Xi; R38 – 41 N; R51-53
Barium salts with the exception of Barium Sulphate	< 1.5 %			056-002-00-7	Xn; R20 / 22

The Full Text for all R-Phrases are Displayed in Section 16

4. FIRST AID MEASURES

Inhalation Move the exposed person to fresh air at once, Keep the affected person warm and at rest. Get prompt medical attention, for breathing difficulties oxygen may be necessary.

Skin Contact Wash skin thoroughly with mild soap and water

Eye Contact Wash out eye with plenty of water. Obtain medical attention if soreness or redness persists.

Ingestion Wash out mouth with water. Drink plenty of water get medical attention

5. FIRE FIGHTING MEASURES

Prevention	Do not expose to naked flames or fire. No smoking.
Extinguishing Media	Foam, Powder, Sand Use water spray to cool containers
- Unsuitable extinguishing media	Do not use high pressure water
Surrounding Fires	Use water spray to cool containers
Specific Hazards	Under fire conditions, hazardous fumes will be present
Protection for Fire-Fighters	Wear self-contained breathing apparatus.
Special procedures	Aerosols may explode in a fire.

6. ACCIDENTAL RELEASE MEASURES

General Precautions	Wear necessary protective equipment, Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate, If leakage cannot be stopped, evacuate area.
Personal Precautions	Avoid contact with skin and eyes. No Smoking. Clean up crews should wear proper protective equipment.
Environmental Precautions	Prevent entry to sewers and public water ways. Notify authorities if product enters sewers or public waters

7. HANDLING AND STORAGE

GENERAL	Ensure there is adequate ventilation. Avoid all unnecessary exposure to naked flames or potential fire risks. No Smoking.
STORAGE	Store in cool well ventilated area in original packaging. Aerosol cans must not be exposed to direct sunlight or temperatures above 50°C.
HANDLING	Avoid direct contact with the substance

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION	
Respiratory Protection	No special respiratory protection equipment is recommended under normal conditions of use, if used with adequate ventilation.
Hand Protection	Wear Barrier Cream, if repeated or prolonged contact wear protective clothes
Skin Protection	In the case of possible repeated skin contact wear protective clothing
Eye Protection	Eye protection is only necessary where liquid could be splashed or sprayed

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20°C	Aerosol
Colour	Light brown
Odour	Characteristic, hydrocarbon
pH value	N/A
Density	N/A
Solubility in Water (vol/vol)	Material insoluble in water
Auto flammability	> 400°C
Flash Point	> -74°C
Flammability Limit (Upper)	1.8%
Flammability Limit (Lower)	10%

10. STABILITY AND REACTIVITY

Hazardous decomposition products	Combustion will generate smoke, carbon monoxide, carbon dioxide
Hazardous reactions	None under normal conditions
Hazardous properties	None under normal conditions
Materials to avoid	Strong oxidizing agents
Conditions to avoid	Naked flames, fires and sources of ignition. Increase in temperature to greater than 50°C will cause rise in internal pressure with likelihood of bursting/explosion

11. TOXICOLOGICAL INFORMATION

Inhalation	High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting., Gas or vapour displaces oxygen available for breathing (asphyxiant). Unconsciousness
Dermal	There may be mild irritation at the site of contact.
Eye contact	Irritation of eyes and mucous membranes

12. ECOLOGICAL INFORMATION

On Product	Prevent entry to sewers and public water ways.
Ecological Effects	Toxic to aquatic organisms., May cause long term adverse effects in the aquatic environment

13. DISPOSAL CONSIDERATIONS

General	Dispose of in a safe manner in accordance with local/national regulations
Disposal method	In accordance with local/national regulations may be taken to waste disposal site.
Disposal of used packaging	Use a licensed waste disposal contractor. Empty containers must not be burned because of explosion hazard

14. TRANSPORT INFORMATION

UN Road	1950
UN Class	2
ADR – Class	Class 2, Code 5F, Label 2.1
Proper Shipping Name	AEROSOLS, FLAMMABLE
UN Number, Sea	1950
IMDG – CLASS	2.1
AIR – CLASS	2
Air Pack Gr.	Not Classified

15. REGULATORY INFORMATION

Labelling Extremely Flammable (F+)

Hazard Symbols



R Phrase(s) R12 Extremely flammable, R20/22 : Harmful by inhalation and if swallowed

S Phrase(s) S2 Keep out of the reach of children, S16 Keep away from sources of ignition - No smoking. S23 Do not breathe vapour/spray., S51 Use only in well-ventilated areas

16. OTHER INFORMATION

Product Use:	For Industrial use only. Lubricant
Risk Phrases in full	R12 Extremely Flammable. R20/22: Harmful by inhalation and if swallowed R38: Irritating to skin. R41: Risk of serious damage to eyes. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

The contents and format are in accordance with the following directives:

EC Directive 91/155/EEC defining the laying down and detailing of specific information relating to Dangerous Preparations Directive – 2001/58/EC.

EC Directive 88/379/EEC relating to the classification, packaging and labeling of dangerous preparations.

DISCLAIMER OF LIABILITY:

To the best of our knowledge, the information contained herein is accurate. Although certain hazards may be described we cannot predict that these are the only hazards, or combination of hazards, that may exist in a workplace. This MSDS, therefore, forms a component only of a risk assessment carried out by, or on behalf of, the user. The conditions of handling, storage, use or disposal of the product are beyond our control. For this and other reasons, we do not assume responsibility and expressly disclaim any liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This MSDS was prepared solely for the product stated and should not be used for any other product.

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