



# MATERIAL SAFETY DATA SHEET

Product Name: Penetrating Spray

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This revision issued: August, 2008

## Section 1 - Identification of Chemical Product and Company

Osher Blue  
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Warriewood, NSW 2102

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Trade Name: **Penetrating Spray**  
Product Use: Aids in freeing rusted or seized parts.  
Creation Date: May 2005  
Revision Date: August 2008

## Section 2 - Hazards Identification

### Statement of Hazardous Nature

This product is classified as: Hazardous according to the criteria of NOHSC Australia.

This product is classified as: Dangerous according to the Australian Dangerous Goods (ADG) Code.

**SUSDP Classification:** S5

**ADG Classification:** Aerosol Class 2.1

**UN Number:** 1950

**Risk Phrases:** R36/37/38 Irritating to the eyes, respiratory system and skin  
R49 May cause cancer (Category 2)  
R65 Harmful, may cause lung damage if swallowed  
R66 Repeated exposure may cause skin dryness and cracking  
WARNING: Inhaling concentrated vapours ("Chroming") may prove fatal.

**Safety phrases:** S2 Keep out of reach of children  
S14 Keep away from oxidisers and strong alkalis  
S23 Do not breathe vapours  
S24/25 Avoid contact with the skin and eyes  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection  
S51 Use only in well ventilated areas  
S60 This material and its container must be disposed of as hazardous waste

## Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Concentration%
White Spirits	8052-41-3	> 60%
Hydrocarbon Gas	68476-86-8	125g per can
Other ingredients, including zinc dust, alkyd resin solids and dryers, determined to be non-hazardous or below cut-off level		

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## Section 4 - First Aid Measures

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<b>Inhalation</b>	High concentration of solvent vapours can be harmful in enclosed spaces. Move exposed person to fresh air, lie down and rest. Rinse mouth and nose with water. If not breathing, apply resuscitation. Keep patient warm. Seek urgent medical advice unless recovery is almost immediate. Cases of "chroming" must be medically examined even if patient has apparently recovered.
<b>Ingestion</b>	Moderately toxic. May cause medical pneumonia if aspirated into the bronchial system during vomiting. White spirits may cause lung damage if ingested. If swallowed, DO NOT induce vomiting. Give 600ml of water to drink. If patient starts to vomit involuntarily, encourage to sit up and lean forward from the hips. Seek urgent medical assistance if symptoms persist.
<b>Skin</b>	Irritant. Can be absorbed through skin. Repeated exposure may cause drying and cracking of skin. Rinse thoroughly with water and soap if available for 5 minutes. Rinse well and pat dry. Seek medical attention if symptoms persist.
<b>Eye</b>	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. Remove contact lenses if worn. If irritation develops seek medical attention.
<b>First Aid Facilities</b>	Provide normal industrial first aid facilities, including eye wash fountains or running water.
<b>Possible symptoms of Chronic Health Effects</b>	Prolonged or repeated skin exposure may lead to dermatitis through drying and cracking of skin. Lung function should be evaluated after incidents of ingestion (considered an unlikely event). Deliberate inhalation of concentrated vapour may have fatal effects from heart failure or other effects on the CNS and blood.
<b>Possible aggravated pre-existing condition</b>	None reported, however persons with asthma and other bronchial disorders should take particular care when working with aerosols.
<b>Suggested treatment for acute symptoms, known antidotes</b>	Provide supportive care and treatment based on the patient's reaction to the exposure. For further information contact the <b>POISONS INFORMATION CENTRE</b> 13 11 26 in all states.

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## Section 5 - Fire Fighting Measures

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<b>Suitable Extinguishing Media</b>	When thermally decomposing emits CO <sub>x</sub> , NO <sub>x</sub> and complex hydrocarbons. Hazchem Code: 3 WE. Foam, dry chemical, water delivered as fine spray or fog. NB: Water may be ineffective due to low flashpoint of material.
<b>Specific Methods</b>	If safe to do so, remove containers from path of fire. Fire-fighters to wear self-contained breathing apparatus if in risk of exposure to vapours or products of combustion. Be aware of potential for exploding cans.
<b>Flammability and Exposure Hazards</b>	Liquid and vapour highly flammable. Vapour may travel considerable distances to a source of ignition and flash back to the point of origin. Fire will produce irritating or poisonous gases. Heat may cause violent rupture of containers which may propel several meters while burning, potentially spreading a fire. Vapours may "pool" in low-lying areas.

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## Section 6 - Accidental Release Measures

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<b>Spills &amp; Disposal</b>	Switch off or remove all potential sources of ignition. Prevent material entering drains or waterways. Wear full protective clothing and respirator during clean-up. If pool of contents forms, cover with sand, soil or other inert absorbents. Shovel saturated absorbent into plastic pales or drums. Seal lids, label and place in a safe area, away from Class 5 goods and ignition sources to await disposal. Collect serviceable cans and return to store. Place damaged cans in a recovery drum for disposal. Thoroughly ventilate work area before re-entry.
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## Section 7 - Handling and Storage

<b>Precautions for Safe Handling</b>	Keep out of reach of children. Wear suitable protective clothing and equipment. Keep away from oxidisers, alkalis and sources of ignition.
<b>Conditions for Safe Storage</b>	Store in accordance with AS3833-98 and local regulations. Store in a cool, dry place away from direct sunlight, acids, strong alkalis (including pool chlorine), oxidising agents and sources of ignition.

## Section 8 - Exposure Controls and Personal Protection

<b>National Exposure Standards</b>	The NOHSC has established exposure standards for two of the components but not for the finished product. Aluminium and Zinc are "locked in" to the product and are not available unless dried product is sanded, sawn or ground to produce dusts.									
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Substance</th> <th style="text-align: center;">TWA</th> <th style="text-align: center;">STEL</th> </tr> </thead> <tbody> <tr> <td>White Spirits</td> <td style="text-align: center;">1800 mg/m<sup>3</sup></td> <td style="text-align: center;">n. all.</td> </tr> <tr> <td>Hydrocarbon Gas</td> <td style="text-align: center;">790 mg/m<sup>3</sup></td> <td style="text-align: center;">n. all.</td> </tr> </tbody> </table>	Substance	TWA	STEL	White Spirits	1800 mg/m <sup>3</sup>	n. all.	Hydrocarbon Gas	790 mg/m <sup>3</sup>	n. all.
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<b>Engineering Controls</b>	Provide adequate, intrinsically safe, ventilation/mechanical ventilation to ensure workplace air quality meets the exposure standards recommended. For use in the home: open all windows in the room where the product is used. Care should be exercised if electric fans are used because of the flammable nature of the product. No smoking while product is in use.									
<b>Respiratory Protection</b>	Not usually required. Avoid breathing spray/mists. No special measures required when used in an open, well-ventilated area. If working in enclosed spaces where exposure standards may be exceeded, use organic vapour filter respirator to AS 1715 & 1716. Use SCBA in confined spaces.									
<b>Personal Protective Equipment</b>	Wear safety glasses or goggles with side shields to AS 1337. Not usually required, but if redness or soreness is experienced wear PVA or rubber gloves to AS2161.									
<b>Body Protection</b>	Wear Tyvec or cotton coveralls fastened at the neck and wrists. Supplement with PVA apron if required.									

## Section 9 - Physical and Chemical Properties:

<b>Appearance</b>	Slightly coloured aerosol spray.
<b>Odour</b>	Aromatic
<b>Freezing/Melting Point</b>	Not applicable
<b>Solubility in Water</b>	Insoluble
<b>Density</b>	0.76 – 0.79
<b>Volatiles %</b>	85% w/w
<b>Vapour Pressure</b>	1820 mm Hg @25 <sup>o</sup> C kPa (Gas)
<b>Flash Point</b>	-60 <sup>o</sup> C (Gas)
<b>Flammability Limits</b>	1.9 – 8.5% vol/air (Gas)
<b>Auto Ignition Point</b>	287 <sup>o</sup> C (Gas)
<b>Boiling Point</b>	-0.5 <sup>o</sup> C to -43.2 <sup>o</sup> C (Gas)
<b>Other Properties</b>	Incompatible with oxidising substances, heat and ignition sources.

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal use conditions. Keep away from oxidising substances and strong alkalis
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## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information** Hydrocarbon Gas Inhalation Rat 4 Hr 658 gm<sup>3</sup>.  
White Spirits Inhalation Man 600 gm<sup>3</sup>/ 8 Hrs

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity** May be toxic to aquatic organisms and may have long-term adverse results in the aquatic environment. Will adversely affect water quality for potable and industrial (cooling) water.

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## 13. DISPOSAL CONSIDERATIONS

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**Waste Disposal** Disposal must be in accordance with local regulations for hazardous industrial wastes (Aerosols or paint-related waste).

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## 14. TRANSPORT INFORMATION

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**Transport Information** Transport as UN No 1950 Aerosol Class 2.1 in accordance with ADG Code & Regulations, the IMDG Code or IATA DG Regulations as appropriate to the mode of transport. Appropriate EPG 2 0 1 or Guide 49 SAA/SNZ HB

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## 15. REGULATORY INFORMATION

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**Regulatory Information** Label as a Schedule 5 Poison in accordance with SUSDP.  
Label in accordance with the "National code of Practice for Labelling of Workplace Substances" [NOHSC: 2012(1994)].  
Label as a Dangerous Goods substance in accordance with ADG code with class 2.1 diamond, UN1950 and the shipping name "Aerosols".  
Label with consumer advice in accordance with AS2278

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## 16. OTHER INFORMATION

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**Contact Person/Point** Poisons Information Centre (Australia): 13 11 26

**Literature References** "List of Designated Hazardous Substances" NOHSC 10005:1999. Australian Code for the Transport of Dangerous Goods by Road and Rail. International Maritime Dangerous Goods Code. International Air Transport Association Dangerous Goods Regulations.

List of abbreviations: n.d. "not determined"; n.a. "not applicable"; n.all. "not allocated"; n.e. "not established"; SUSDP "Standard for Uniform Scheduling of Drugs and Poisons"; ADG "Australian Dangerous Goods" (Code); IATA "International Air Transport Association" (Dangerous goods Regulations); IMDG "International Maritime Dangerous Goods" Code.

**Revisions Highlighted** Updated information layout to comply with NOHSC 16 header format requirements.

**End of MSDS**

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

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