



NORSAN

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PRODUCT INFORMATION HAZARD DATA (SDS)

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Product	Pack Size	Product Code
GRAFFITI REMOVER	12 x 400ml	N11412
Product Information	Directions For Use	
<p>Ozone Friendly Aerosol Traditional graffiti removers have been based upon 'aggressive' solvents such as methylene chloride and butyl acetate. Such combinations are classified as 'harmful' and difficulties with high vapour concentrations can occur in confined spaces.</p> <p>Norsan Graffiti Remover contains no harmful materials and is based upon N-methyl-2-pyrrolidone (NMP). This is an excellent solvent for oils and resins and unlike earlier materials it is completely miscible with water – thus enabling the surface to be thoroughly rinsed after cleaning. The low volatility of NMP reduces airborne concentrations of the vapour, even in confined spaces. This product incorporates a non-ionic detergent to enhance penetration into porous surfaces. NMP is non-corrosive to most materials, although some plastics (notably PVC) may be softened if contact time is excessive.</p> <p>Norsan Graffiti Remover quickly removes crayon, lipstick, felt tip ink, shoe polish scuffs and fresh paint from a wide variety of surfaces. Older hardened paint can also be removed if contact time is increased, but care should be taken not to damage the underlying surface. The aerosol does not contain any CFC's or chlorinated solvents.</p>	<ul style="list-style-type: none"> • Shake can well before use. • Spray onto the surface which requires cleaning, leave for a few seconds, followed by agitating with a Cleanhouse Microfibre Boscloth or brush, then wipe clean. • Repeat process if necessary. • Do not use on floors. 	

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2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Substances with Occupational Exposure Limits listed in EH40 or influencing classification:

Substances (INCI)	OES	EINECS	Risk	%
Methyl Pyrrolidone	100 ppm	212-818-1	Xi; R36/38	<50
Isopropanol	400 ppm	200-661-7	F; R11 Xi; R36/37	<50
Butane 40	600 ppm	270-704-2	F+; R12	<50

Figures quoted are 8 hour time weighted averages for the individual material at 100% concentration.

3. HAZARD IDENTIFICATION

Main Hazards: Extremely flammable and irritant.

Other Hazards: Harmful by-products may be formed in a fire. Deliberate inhalation abuse could be fatal in extreme cases, but unlikely die to the irritancy of the product when inhaled. Cans may rupture if heated to excess. Direct eye contact will cause irritation. Repeated skin contact may cause de-fatting and irritation.

4. FIRST AID MEASURES

Inhalation: Remove casualty to fresh air and seek medical advice.

Eye Contact: Irrigate thoroughly with water. Seek medical advice if irritation persists.

Skin Contact: Wash with soap and water.

Ingestion: Unlikely to occur. Seek medical advice if significant quantities have been swallowed.

5. FIRE FIGHTING MEASURES

Extinguishing media: Carbon dioxide.

Unusual Hazards: Cool containers to prevent rupture.

Protection for Fire Fighters: Wear self-contained breathing equipment and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

If Containers Rupture: Extinguish all ignition sources. Ventilate area, particularly at low level. Absorb residue on inert material and dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Store at ambient temperatures under dry conditions. Read the label before use. Do not mix with other chemicals. Keep out of reach of children. Ensure adequate ventilation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Do not smoke during use.

Respiratory Protection: Do not breathe spray, the vapours are irritant if inhaled. Ensure adequate ventilation.

Eye Protection: Safety glasses. Ensure eye bath is to hand.

Skin Protection: Protective clothing.

9. PHYSICAL CHEMICAL PROPERTIES

Appearance: Thin clear liquid with characteristic odour.

pH: N/A.

Internal Pressure at 20 °C: Approximately 3 BAR.

Vapour Density: > Air.

Flammability: Flash Point <0 °C (butane)

Solubility in Water at 20 °C: 65% approximately.

Relative Density: 0.75

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10. STABILITY REACTIVITY:

Stability: Stable under normal conditions. Cans may rupture in fire with the release of flammable contents and harmful by-products may be formed.

11. TOXICOLOGICAL INFORMATION:

The aerosol contains materials which are irritant when used at these concentrations. Deliberate inhalation abuse could prove fatal in extreme circumstances. Ingestion is unlikely but would cause severe nausea and intoxication. LD50 for NMP is 4.2g/Kg (rats).

12. ECOLOGICAL INFORMATION:

All of the chemicals used are biodegradable.
No chlorofluorocabons (CFC's) are present.

13. DISPOSAL CONSIDERATIONS:

Do not puncture or incinerate even when empty. Dispose of in accordance with local regulations. The empty aerosol may be disposed of via the household waste stream.

14. TRANSPORT INFORMATION:

IMDG: Class 2 "Aerosols"
UN Code: 1950
ADR: Class 2 (UN 1950) subdivision 5F.
Marine Pollutant: No.
Other Information: The ADR Limited Quantity provision LQ2 may be applied during road transport.



15. REGULATORY INFORMATION:

The labeling is in accordance with the Chemical (Hazard Information And Packaging For Supply) Regulations 2002 and current EC Regulations.

The aerosol carries a statutory aerosol caution statement (see section 16).

Risk Phrases: R11: Highly flammable.
R12: Extremely flammable.
R36/38: Irritating to eyes and skin.
R67: Vapours may cause drowsiness and dizziness.

16. OTHER INFORMATION:

Aerosol Caution: The container is pressurized. Do not pierce or burn, even when empty. Protect from sunlight and do not expose to temperatures exceeding 50 degrees centigrade. Do not spray on a naked flame or any incandescent material. Keep out of reach of children.

The data contained in this Safety Data Sheet has been supplied for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

PLEASE ENSURE THAT IT IS PASSED TO THE APPROPRIATE PERSON(S) IN YOUR COMPANY, WHO ARE CAPABLE OF ACTING ON THE INFORMATION.

The information contained in this document is based on information believed to be correct on the date of issue. No warranty or representation, expressed or implied, is made as to the accuracy or completeness of this information. The user assumes all liability for any damage or injury resulting from abnormal use, from the failure to adhere to recommended practices, or from hazards inherent in the nature of the product. In accordance with our policy of incorporating technical improvements, we reserve the right to amend any specification without notice.