

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: SONASOL S400+

Use / description of product: For use in the Dye Penetrant Inspection Process BS EN ISO 571-1:1997 (BS EN ISO 3452-2:2000 Sensitivity level 2 when used in conjunction with penetrant family products)

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: DIMETHYL ETHER 50-70%
EINECS: 204-065-8 CAS: 115-10-6
[F+] R12

- OCTANE AND ISOMERS 30-50%
EINECS: 292-458-5 CAS: 90622-56-3
[F] R11; [Xi] R38; [N] R51/53; [Xn] R65; [-] R67

3. HAZARDS IDENTIFICATION

Main hazards: Extremely flammable. Irritating to skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness with prolonged contact

Eye contact: There may be irritation and redness.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water. Remove contaminated clothing, including shoes, and launder before re-use.

Eye contact: Bathe the eye with running water for 15 minutes. If irritation persists get medical assistance.

Ingestion: Do not induce vomiting. Keep at rest. Obtain prompt medical attention

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

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If conscious, ensure the casualty sits or lies down. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Use water spray to cool surfaces exposed to fire and protect personnel. Foam Dry chemical powder. Alternatively, allow fire to burn under controlled conditions.

Exposure hazards: Containers may explode if exposed to fire.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Eliminate all sources of ignition. If outside keep bystanders upwind and away from danger point. Evacuate area and allow to evaporate.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. Alert the neighbourhood to the presence of fumes or gas.

Clean-up procedures: Absorb into dry earth or sand. Do not use equipment in clean-up procedure which may produce sparks. The fire brigade must be present at any clean-up operation of larger spills. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Handling requirements: Do not use near sources of ignition. Ensure there is sufficient ventilation of the area. Smoking is forbidden. Use non-sparking tools. Use good hygienic practice and housekeeping methods.

Storage conditions: Store in cool, well ventilated area. Keep away from sources of ignition. Keep away from direct sunlight. Store in dry conditions. Best secured in a steel cabinet especially if stored on workshop floor.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: DIMETHYL ETHER
TWA 766 mg/m³ STEL 958 mg/m³

- OCTANE AND ISOMERS
TWA 1200mg/m³ (250ppm)

Engineering measures: Ensure there is sufficient ventilation of the area. Use of local Ex. exhaust ventilation is recommended. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: Respiratory protection should not be necessary during normal use. Where concentrations in air may exceed exposure limits, automomous breathing apparatus or filter material of Type A or similar should be considered.

Hand protection: Nitrile gloves. Suitable chemical resistant gloves

Eye protection: Safety glasses/goggles are recommended.

Skin protection: Overalls recommended. No special protection other than hands.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Aerosol

Colour: Colourless

Odour: Characteristic odour

Solubility in water: Not miscible

Viscosity: Non-viscous

Boiling point/range°C: -24

Flash point°C: -42

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Sources of ignition. Heat. Hot surfaces. Flames.

Materials to avoid: Strong oxidising agents.

Haz. decomp. products: None

11. TOXICOLOGICAL INFORMATION

Chronic toxicity: High vapour concentrations may be irritating to eyes and respiratory tract and may cause headaches, drowsiness, dizziness and other central nervous system effects.

12. ECOLOGICAL INFORMATION

Mobility: Highly volatile.

Persistence and degradability: Biodegradable.

Bioaccumulative potential: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Full aerosol cans must be disposed of as hazardous waste. Empty aerosol cans should be disposed of in accordance with Local Authority Regulations. Manufacturer can advise on recovery.

Disposal of packaging: Empty aerosols can be recycled. Packaging card and plastics can be recycled.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

UN no: 1950 **ADR Class:** 2
Classification code: 5F
Shipping name: AEROSOLS
Labelling: 2.1

**IMDG / IMO**

UN no: 1950 **Class:** 2
EmS: F-D,S-U **Marine pollutant:** .
Labelling: 2.1

IATA / ICAO

UN no: 1950 **Class:** 2
Labelling: 2.1

15. REGULATORY INFORMATION

Hazard symbols: Extremely flammable.

Irritant.

Dangerous for the environment.



Risk phrases: R12: Extremely flammable.

R38: Irritating to skin.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67: Vapours may cause drowsiness and dizziness.

Safety phrases: S3/9/14: Keep in a cool, well ventilated place away from ...

S16: Keep away from sources of ignition - No smoking.

S23: Do not breathe ...

S24: Avoid contact with skin.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S43: In case of fire, use ...

S60: This material and its container must be disposed of as hazardous waste.

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S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Precautionary phrases: Pressurized 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.

Water hazard class:

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Risk phrases used in s.2: R12: Extremely flammable.
R11: Highly flammable.
R38: Irritating to skin.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.
R67: Vapours may cause drowsiness and dizziness.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.