

Material Safety Data Sheet

Product:

Radiator Flush

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TDS Nr: 560

Version: 1.02

Date: 06/11/2000

1. Identification of the substance/preparation and of the company/undertaking.

Type of product and use: Cleaning additive for water circuits in vehicles.

Company identification: WYNN'S BELGIUM N.V.

Address and telephone Nr.: Industriepark West 46

B-9100 Sint-Niklaas

tel: INT-32-3-766.60.20

fax: INT-32-3-778.16.56

Emergency phone Nr.: INT-32-70-245.245

2. Composition/information on ingredients.

Composition: alkali solution of various corrosion inhibiting sodium salts.

Hazardous component(s): sodium silicate (CAS n°:1344-09-8)

wt%:05-15 Symbol(s):Xi R-Phrase(s):36/38

trisodiumphosphate (CAS n°: 10101-89-0)

wt%:05-10 Symbol(s):Xi R-Phrase(s):36/38

Tetra-sodium salt of ethylene diamine tetra-acetic acid (CAS n°:64-02-8)

wt%:01-10 Symbol(s):Xn R-Phrase(s):22, 36, 52/53

3. Hazards identification.

Important hazards-fire: No specific symptoms known.

Important hazards-toxicity: Irritating to eyes and skin.

Important hazards-chemical reactions: No data available.

Environmental hazards: May cause long-term adverse effects in the aquatic environment.

4. First-aid measures.

Inhalation: Remove victim to fresh air and allow to rest.

In case of loss of consciousness, give artificial respiration.

Skin contact: Remove contaminated clothing.

Continue rinsing for at least 10 minutes.

If inflammation or irritation persists, seek medical advice.

Laundry contaminated clothing before reuse and discard shoes and other leather articles saturated with the material.

Eye contact: DO NOT DELAY. Flush eye with plenty of water.

Keep eyelids apart.

If inflammation or irritation persists, seek medical advice.

Ingestion: Immediately give 1-2 glasses of water, if victim is fully conscious.

If conscious, give 3 or 4 capsules of active carbon (i.e. NORIT®) together with some water.

Seek medical advice.

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5. Fire - fighting measures.

Non combustible.

Extinguishing media:

- Suitable: Carbon dioxide, dry chemicals, foam (AFFF/ATC), water spray (fog).

6. Accidental release measures.

Personal precautions: Personal Protective Equipment must be worn, see section 8 (Personal Protection).
Avoid contact.
Appropriate protective clothing.

Methods for cleaning up:

- On soil: Keep public away.
Take measures to minimize the effect on the ground water.
Contain spilled liquid with sand or earth.
Clean with water.

- On water: Hose over spill area to effect dilution of water soluble material.
Consult an expert on disposal of any recovered material and ensure conformity to local disposal regulations.

7. Handling and storage.

Handling: Avoid contact with skin and eyes.
Handle in accordance with good industrial hygiene and safety procedures.
Arrange for eye wash possibility.

Storage: Keep out of reach of children.
Avoid contact with strong acids and oxidizers.
Keep away from frost.

Packaging:

- General: Keep preferably in the original packaging; if not, copy all indications of the labelling on the new packaging.

8. Exposure controls/personal protection.

Recommended engineering controls: When using, do not eat, drink or smoke.
Ensure good ventilation.
Arrange for eye wash possibility.

Personal protection:

- Respiratory protection: In case of insufficient ventilation, use face mask with breathing filter, type: A (ABEK).

- Skin and hand protection: Handle in accordance with good industrial hygiene and safety procedures.
Appropriate protective clothing and gloves:

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Nitrile,
Neoprene,
- Not to be used:
polyvinylalcohol,
Natural rubber,
- Eye protection: Handle in accordance with good industrial hygiene and safety procedures.
Safety goggles/visor.

9. Physical and chemical properties (typical values).

. These are indicative values only. Please refer also to the product specification sheet.

Appearance: White.
Liquid.

Odour: Characteristic.

pH (concentrated product): ~ 11,4

Boiling point: ~ 100 °C

Flash point (Abel/Pensky): Not applicable.

Explosion limits: Not applicable.

Vapour pressure at 20°C: ~ 25 hPa (mbar)

Density at 15°C (NF EN ISO 12185): 1125 Kg/m³

Solubility in water: Completely soluble

Oxidising properties: Not yet determined.

refractive index at 20°C (ASTM D-1747): 1.3660

10. Stability and reactivity.

Stability: See Section 7 "Handling and Storage" for further details.
Stable in normal conditions of use.

Conditions to avoid: Store at temperatures above 0 °C.

Materials to avoid: Avoid contact with strong oxidizers.

Hazardous decomposition products: None known.

11. Toxicological information.

Oral LD50 (rat): No information available.

Dermal LD50 (Rabbit): No information available.

Inhalation LC50 (Rat/4h): No data available to indicate product or components may be a toxic inhalation hazard.

Skin contact: Irritating.

Eye contact: Irritating.
Will cause eye discomfort, but will not injure eye tissue.

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Skin sensitization test:

Data not available.

12. Ecological information.

Mobility:

This substance is water soluble and is expected to remain primarily in water.

Degradability:

This substance biodegrades rapidly and is readily biodegradable according to OECD guidelines.

Ecotoxicity and bioaccumulation:

No acute toxicity to plants is expected.

No acute toxicity to aquatic organisms is expected at the maximum water solubility of this product.

WGK class (Germany):

This substance is expected: 1

13. Disposal considerations..

Disposal of product:

Dispose of in a safe manner, in accordance with local regulations.

Prevent from entering sewers or the immediate environment.

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers.

Disposal of packaging:

Dispose of in a safe manner, in accordance with local regulations.

Incineration.

14. Transport information.

--RID/ADR/RTMDR:

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Not classified under this legislation.

--MARITIME TRANSPORT (IMO-IMDG):

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Not classified under this legislation.

--AIR TRANSPORT (CAO/IATA):

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Not classified under this legislation.

15. Regulatory information.

EEC labelling information:

The product is labelled in accordance with EC-Directive 88/379.

- Symbol(s):

Irritant: Xi.

- R Phrase(s):

R 36/38: Irritating to eyes and skin.

- S Phrase(s):

S (2): Keep out of reach of children.

S 24/25: Avoid contact with skin and eyes.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

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S (46): If swallowed seek medical advice immediately and show this container or label.

S 64: If swallowed, rinse mouth with water (only if the person is conscious).

16. Other information.

Based on EC Directive 91/155/EEC.

Sources of key data used:

Raw material suppliers' data sheets were used as key data sources in the preparation of this safety data sheet.

Nature of revision:

Initial issue.

This index complete the technical data sheets but do not replace them.

The pieces of information included are based on the actual condition of our knowledge; they were given on good faith. It is not dispense by any case the utilization of knowledge and application to set the regulatory texts of their activities. It will take under its own responsibility the precautions linked to the utilization that it should produce. The object of the set of regulatory prescriptions is only to help the addressee to replace the obligations that concern him.

The addressee should make sure that the other obligations should not concern him, just those cited.

End of document.

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