

# Material Safety Data Sheet

Product: **Injector Cleaner for Diesel Engines**

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TDS Nr: 516

Version: 1.02

Date: 11/10/2000

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

Type of product and use: Additive for diesel fuels  
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: Blend of detergent, dispersant, corrosion inhibitors, cetane improvers and alcohols in a hydrocarbon solvent.

Hazardous component(s): kerosine (cas-n°:8008-20-6)  
wt%:60-80 Symbol(s):Xn, R-Phrase(s):10, 65  
propan-2-ol; isopropyl alcohol (cas-n°:67-63-0)  
wt%:10-20 Symbol(s):F, Xi R-Phrase(s):11, 36  
polyolefine amide alkyleenamine  
wt%:< 5 Symbol(s):Xi R-Phrase(s):36, 38  
alkyl nitrate (cas-n°: 27247-96-7)  
wt%:< 5 Symbol(s):Xi R-Phrase(s):36/38, 44

Other components: < 1% toluene (cas: 108-88-3) and xylene (cas: 1330-20-7)  
< 0.1% benzene (cas: 71-43-2)

## 3. Hazards identification.

Important hazards-fire: Highly flammable.  
Extreme hazard. Leaks of gas or spills of liquid can readily form flammable mixtures at temperatures at or above the flash point.  
Risk of explosion if heated under confinement.  
May build up electrostatic charges: risk of ignition hazard.

Important hazards-toxicity: Irritating to eyes.  
May cause sensitization by inhalation and skin contact.  
Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.  
Nocive, can damage operators' lungs in case of ingestion.  
May cause loss of consciousness or other central nervous system effects.

Important hazards-chemical reactions: No data available.

Environmental hazards: Very toxic to aquatic organisms.  
May cause long-term adverse effects in the environment.

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## 4. First-aid measures.

Inhalation:	Using proper respiratory protection, immediately remove the affected victim from exposure. Remove to fresh air. In case of loss of consciousness, give artificial respiration. Seek medical advice immediately.
Skin contact:	Laundry contaminated clothing before reuse and discard shoes and other leather articles saturated with the material. Continue rinsing for at least 10 minutes. If inflammation or irritation persists, seek medical advice.
Eye contact:	Continue rinsing for at least 10 minutes. If inflammation or irritation persists, seek medical advice.
Ingestion:	If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

## 5. Fire - fighting measures.

Extinguishing media:	
- Suitable:	Carbon dioxide, dry chemicals, foam (AFFF/ATC), water spray (fog).
- Not to be used:	Water jet.
Firefighting instructions:	Use water spray to cool fire exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect men attempting to stop a leak. Either allow fire to burn under controlled conditions or extinguish with foam (AFFF/ATC) or dry chemical.
Special exposure hazards:	Fumes, smoke, carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO) (Toxic). Heating will cause pressure rise, severe risk of bursting and explosion.
Special protective equipment for fire fighters:	Full protective clothing and self-containing breathing apparatus.

## 6. Accidental release measures.

Personal precautions:	Ensure good ventilation. In case of insufficient ventilation, use face mask with breathing filter, type: A (ABEK).
Methods for cleaning up:	
- On soil:	Remove sources of ignition. Keep public away. Inform local police and/or fire brigade. Absorb small spills on dry chemical absorbent. Consult an expert on disposal of recovered material and ensure conformity to local

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disposal regulations.

Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent.

- On water:

Eliminate sources of ignition. Warn occupants and shipping in downwind areas of fire and explosion hazard and request them to stay clear.

Notify port or relevant authorities and keep public away. Shut off source if possible to do so without danger. Confine if possible.

Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies sinking and/or suitable dispersants may be used in non-confined waters.

Consult an expert on disposal of any recovered material and ensure conformity to local disposal regulations.

## 7. Handling and storage.

Handling:

Do not breathe vapour.

Avoid contact with skin and eyes.

Do not smoke.

Ensure good ventilation.

Open slowly in order to control possible pressure release.

Material will accumulate static charges which may cause an electrical spark (ignition source).

Use proper grounding procedures.

Do not pressurize, cut, heat, or weld containers (empty product containers may contain product residue).

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition.

This product contains alkyl nitrates.

When heated above 100°C/212°F, this product may undergo a self-accelerating exothermic decomposition reaction which causes a rapid rise in temperature and pressure.

Storage:

Store at temperatures below 50 °C.

Store in dry, cool, well ventilated area.

Packaging:

- General:

Container remains hazardous when empty. Continue to observe all precautions.

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

- Suitable:

Stainless steel,

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- Not to be used: Natural rubber,  
Butyl rubber,

## 8. Exposure controls/personal protection.

Recommended engineering controls: The use of local exhaust ventilation is recommended to control process emissions near the source.

Laboratory samples should be handled in a lab hood.

Provide mechanical ventilation of confined spaces.

Arrange for eye wash possibility.

Occupational Threshold limit values (TLV): The ACGIH recommends a TLV-TWA of 10 ppm (25 mg/m<sup>3</sup>) for Ethylene diamine. Wynn's recommends 100 ppm total hydrocarbons based on composition.

Personal protection:

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

All contact should be avoided by persons with known hypersensitivity to [SCP\$02.01-WA1533\$].

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

Nitrile,

Neoprene,

- Not to be used:

Natural rubber,

polyvinylchloride (PVC),

- Eye protection: Safety goggles/visor.

## 9. Physical and chemical properties (typical values).

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

Appearance: Liquid.

Odour: Characteristic.

pH (concentrated product): Not applicable.

Boiling point: 82 °C

Melting point: Not established.

Flash point (Abel/Pensky): < 20 °C

Explosion limits: Lower: 0.7 (% vol)

Upper: 8 (% vol)

Vapour pressure at 20°C: Not established.

Density at 15°C (NF EN ISO 12185): 804 Kg/m<sup>3</sup>

Solubility in water: Negligible.

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Oxidising properties: Not yet determined.  
Partition coefficient (P o/w): Not yet determined.

## 10. Stability and reactivity.

Stability: Stable in normal conditions of use.  
Conditions to avoid: Store away from direct sunlight.  
Store at temperatures below 50 °C.  
Materials to avoid: Avoid contact with strong acids and oxidizers.  
Hazardous decomposition products: Fumes, smoke, carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), and nitrogen oxides (NO<sub>x</sub> / Toxic).

## 11. Toxicological information.

. (Based on test with similar products).  
Overexposure to alkyl nitrates may cause headaches, dizziness, nausea, decreased blood pressure, changes in heart rate, and oxygen deficiency (cyanosis) from methemoglobinemia.  
(Refers to active component).  
No toxicological information available.  
Oral LD50 (rat): Not yet determined.  
Dermal LD50 (Rabbit): Not yet determined.  
Inhalation LC50 (Rat/4h): Not yet determined.  
Skin contact: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.  
Low order of toxicity  
Eye contact: Moderately irritating.  
Will cause eye discomfort, but will not injure eye tissue.  
Skin sensitization test: Not irritating.  
Other data: Lifelong tests with a brush on the skin of animals have shown that similar products have led to cancer of the skin.

## 12. Ecological information.

Mobility: This substance is relatively volatile and will evaporate from water and soil over the course of a few days.  
Degradability: Based upon data for a similar substance or estimated data.  
This substance biodegrades slowly.  
This substance is expected to be removed in a wastewater treatment facility.  
Ecotoxicity and bioaccumulation: Expected to be very toxic to aquatic organisms.  
WGK class (Germany): This substance is expected: 2

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## 13. Disposal considerations..

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

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

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

## 14. Transport information.

UN 1993  
Proper shipping name: Flammable liquids, n.o.s. (contains kerosine)  
--RID/ADR/RTMDR:  
Class / Enumeration number & letter: 3 3<sup>b</sup>)  
--MARITIME TRANSPORT (IMO-IMDG):  
Klasse: 3.2  
page: 3230 (Amdt 27-94)  
Packing group: II  
MFAG: refer to subsection 4.2 of the MFAG  
EMS: 3.07  
Marine Pollutant: N  
--AIR TRANSPORT (CAO/IATA):  
Class: 3  
Packing group: II  
Packing instructions: 305/307

## 15. Regulatory information.

EEC labelling information: The product is labelled in accordance with EC-Directive 88/379.  
- Symbol(s): Highly flammable: F.  
Harmful: Xn.  
- Contains: <75% Kerosine (Petroleum); Straight run kerosine (CAS: 8008-20-6)  
- R Phrase(s): R 11: Highly flammable.  
R 36/38: Irritating to eyes and skin.  
R 42/43: May cause sensitization by inhalation and skin contact.  
R 65: Harmful, may cause lung damage if swallowed.  
- S Phrase(s): S (2): Keep out of reach of children.  
S 7: Keep container tightly closed.  
S 16: Keep away from sources of ignition - No smoking.  
S 23.2: Do not breathe vapour.  
S 23.4: Do not breathe spray.  
S 24: Avoid contact with skin.

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S 25: Avoid contact with eyes.

S (62): If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## 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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