Material Safety Data Sheet

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

Type of product and use:	Additive for gasoline. Combustion improver - emission reducer.
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:	Solution of manganses derivative and peroxydes in organic hydrocarbons
Hazardous component(s):	kerosine (cas-n°:8008-20-6) wt%:>80 Symbol(s):Xn R-Phrase(s):10, 65 Di-tert-butyl peroxide (CAS-n°:110-05-4) wt%:<10 Symbol(s):O, F R-Phrase(s):7, 11
Other components:	< 0.5% Manganese derivatives < 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:	The vapours are heavier than air, spreads along the ground. Flammable. In use, may form flammable/explosive vapour-air mixture.
Important hazards-toxicity:	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Irritating to eyes, respiratory system and skin. 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:	May cause long-term adverse effects in the aquatic environment.

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:	In case of burns immediately cool affected skin as long as possible with cold water. Remove contaminated clothing.

	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 siperse the vapors and to protect men attemping to stop a leak. Either allow fire to burn under controlled conditions or extinguish with foam (AFFF/ATC) or dry chemical.
Special exposure hazards:	Carbon monoxyde vapors emitted in due case of incomplete combustion of the product.
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:	Use explosion-proof electrical equipment. 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 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. Material will accumulate static charges which may case 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.
Storage:	Store in dry, cool, well ventilated area.
Packaging:	
- General:	Keep preferably in the original packaging; if not, copy all indications of the labelling on the new packaging.
- Suitable:	Carbon Steel, Stainless steel,
- 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):	Wynn's recommends 100 ppm total hydrocarbons based on compostition.
Personal protection:	
- Respiratory protection:	Ensure good ventilation. In case of insufficient ventilation, use face mask with breathing filter, type: A (ABEK).
- Skin and hand protection:	Use chemically protective boots when necessary to avoid contaminating shoes. Long sleeve shirt is recommended.

	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:	Goggles or face shield with safety glasses.
	Eyewash bottle with clean water.
	Safety goggles/visor.

9. Physical and chemical properties (typical values).

.	These are indicative values only. Please refer also to the product specification sheet.
Appearance:	Yellow.
	Liquid.
Odour:	Kerosine
pH (concentrated product):	Not applicable.
Boiling point:	130-300 °C
Melting point:	Not yet determined.
Flash point (Abel/Pensky):	>38 °C
Explosion limits:	Lower: 0.7 (%vol)
	Upper: 8 (%vol)
Vapour pressure at 20°C:	0.1 kPa (0.001 bar)
Density at 15°C (NF EN ISO 12185):	813 Kg/m3
Solubility in water:	Negligible.
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 (CO2), carbon monoxide (CO) (Toxic).

11. Toxicological information.

.	(Based on test with similar products).
	(Refers to active component).
	No toxicological information available.
Oral LD50 (rat):	>2000 (mg/kg)
Dermal LD50 (Rabbit):	>2000 (mg/kg)
Inhalation LC50 (Rat/4h):	>2000 (mg/m3)
Skin contact:	Low order of toxicity
	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
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 is expected to biodegrade rapidly.
	This substance is expected to be removed in a wastewater treatment facility.
Ecotoxicity and bioaccumulation:	Expected to be toxic to aquatic organisms.
WGK class (Germany):	This substance is expected: 2

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 31°c)
Hazard code:	30
Label:	3

--MARITIME TRANSPORT (IMO-IMDG):

Klasse:	3
page:	3345 (Amdt 27-94)
Packing group:	III
MFAG:	310/311
EMS:	3.07
Marine Pollutant:	N

--AIR TRANSPORT (CAO/IATA):

Class:	3
Packing group:	III
Packing instructions:	309/310

15. Regulatory information.

EEC labelling information:	The product is labelled in accordance with EC-Directive 88/379.
- Symbol(s):	Harmful: Xn.
- Contains:	>80% Kerosine (Petroleum); Straigt run kerosine (CAS: 8008-20-6)
- R Phrase(s):	R 10: Flammable. R 65: Harmful, may cause lung damage if swallowed.
- S Phrase(s):	S (2): Keep out of reach of children. S 24: Avoid contact with skin. 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 responsability 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.

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