

Material Safety Data Sheet

(In accordance with 2001.58.EC - L212/14)

W71854 - Dry Fuel

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

IDENTIFICATION OF THE SUBSTANCE OR PREPARATION

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USE OF THE SUBSTANCE/PREPARATION

Fuel Additive.

COMPANY IDENTIFICATION

COMPANY Wynn's Belgium B.V.B.A.
ADDRESS Industriepark-West 46
9100 SINT-NIKLAAS
TEL +32 (0)3 766.60.20
FAX +32 (0)3 778 16 56
WEBSITE www.wynns.eu
E-MAIL msds@wynns.eu
EMERGENCY TELEPHONE NUMBER
EMERGENCY TELEPHONE NUMBER BIG: +32(0)14/58.45.45

2. HAZARDS IDENTIFICATION



F - highly flammable



Xn - harmful



N - dangerous for the environment

HAZARDS FOR HUMANS AND THE ENVIRONMENT

Highly flammable - Irritating to eyes and skin - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment - Harmful: may cause lung damage if swallowed - Vapours may cause drowsiness and dizziness

OTHER DANGERS

3. COMPOSITION/INFORMATION ON INGREDIENTS

INFORMATION ON INGREDIENTS

NAME	CAS NO	EI NCS/ELI NCS	MIN/MAX	SYMBOL	R-PHRASES
(Z)-N-methyl-N-(1-oxo-9-octadecenylo)glycine	110-25-8	203-749-3	0,5 < C < 1 %	XI,N	R38, R41, R50
2-(2-heptadec-8-enyl-2-imidazoln-1-yl)ethanol	95-38-5	202-414-9	0,5 < C < 1 %	C,N	R22, R34, R50/53
4-methyl-2-pentanol	108-11-2	203-551-7	5 <= C < 10 %	XI	R10, R37
Kerosine (petroleum): Straight run kerosine	8008-20-6	232-366-4	25 < C < 50 %	Xn,N	R10, R38, R51/53, R65
ethanol: ethyl alcohol	64-17-5	200-578-6	25 < C < 50 %	F	R11
propan-2-ol: isopropyl alcohol: isopropanol	67-63-0	200-661-7	25 < C < 50 %	F,XI	R11, R36, R67

4. FIRST AID MEASURES

IN GENERAL

Check the vital functions
Unconscious: maintain adequate airway and respiration
Respiratory arrest: artificial respiration or oxygen
Cardiac arrest: perform resuscitation
Victim conscious with laboured breathing: half-seated
Victim in shock: on his back with legs slightly raised
Vomiting: prevent asphyxia/aspiration pneumonia

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Prevent cooling by covering the victim (no warming up)
Keep watching the victim
Give psychological aid
Keep the victim calm, avoid physical strain
Depending on the victim's condition: doctor/hospital

INHALATION

Remove the victim into fresh air
Respiratory problems: consult a doctor/medical service

SKIN

In case of burns
Rinse immediately with plenty of water for 15 minutes
Remove clothing before washing
Take victim to a doctor if irritation persists

EYES

Rinse immediately with plenty of water for 15 minutes
Consult a doctor/medical service
Take victim to an ophthalmologist if irritation persists

INGESTION

Do not induce vomiting
Immediately consult a doctor/medical service
Ingestion of large quantities: immediately to hospital

5. FIRE-FIGHTING MEASURES

EXTINGUISH. AGENTS-FIRE FIGHTING INSTR.

FIRE EXTINGUISHING MEDIA

Carbon dioxide
Dry chemical powder
AFFF/AR-foam

FIREFIGHTING INSTRUCTIONS:

If no hazard for/from the surroundings: controlled burning
If hazardous substances are nearby: consider extinguishment
Cool tanks/drums with water spray/remove them into safety
Extinguish/cool from behind cover/unmanned monitors
Solid water jet ineffective as extinguishing medium

FIRE HAZARD

DIRECT FIRE HAZARD

Highly flammable
Gas/vapour flammable with air within explosion limits

INDIRECT FIRE HAZARD

May build up electrostatic charges: risk of ignition
May be ignited by sparks
Gas/vapour spreads at floor level: ignition hazard

EXPLOSION HAZARD

Gas/vapour explosive with air within explosion limits
May be ignited by sparks

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION

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Protective clothing
Gloves
Protective goggles
Face-shield
Large spills/in enclosed spaces: compressed air apparatus
Heat/fire exposure: compressed air/oxygen apparatus

GENERAL MEASURES

Keep upwind - Mark the danger area - Consider evacuation - Seal off low-lying areas - Close doors and windows of adjacent premises - Stop engines and no smoking - No naked flames or sparks - Spark- and explosionproof appliances and lighting equipment - Prevent soil and water pollution - Prevent spreading in sewers - Keep containers closed - Wash contaminated clothes

LEAK

Dam up the liquid spill
Contain released substance, pump over in suitable containers
Plug the leak, cut off the supply
Try to reduce evaporation
Dilute/disperse combustible gas/vapour with water curtain
Provide equipment/receptacles with earthing
Do not use compressed air for pumping over spills

DISPOSAL

Take up liquid spill into a non combustible material e.g.: dry sand/earth/vermiculite
Scoop absorbed substance into closing containers
Clean contaminated surfaces with an excess of water
Wash clothing and equipment after handling

7. HANDLING AND STORAGE

HANDLING THE PRODUCT

Comply with the legal requirements
Work under local exhaust/ventilation
Observe normal hygiene standards
Remove contaminated clothing immediately
Clean contaminated clothing
Keep container tightly closed
Use spark-/explosionproof appliances and lighting system
Take precautions against electrostatic charges
Keep away from naked flames/heat
Keep away from ignition sources/sparks
Handle uncleaned empty containers as full ones
Do not discharge the waste into the drain
Do not use compressed air for pumping over

STORAGE

STORAGE AREA

Meet the legal requirements - Keep out of direct sunlight - container tightly closed - Store in a dry area - Store in a cool area - Keep container in a well-ventilated place

STORAGE TEMPERATURE

< 45°C

CONTAINERS

CONTAINERS : MATERIAL SELECTION SUITABLE MATERIAL:

carbon steel
polyethylene
polypropylene
stainless steel

CONTAINERS : REQUIREMENTS

closing

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clean
correctly labelled
meet the legal requirements
Secure fragile packagings in solid containers

SPECIFIC APPLICATIONS

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VME/VLE

PRODUCT NAME	VME (PPM)	VME (MG/M ³)	VLE (PPM)	VLE (MG/M ³)
4-Methyl-2-pentanol	25 ppm	100 mg/m ³	-	-
ethanol	1000	1900	5000	9500
isopropylalcohol			400	980

MAC

PRODUCT NAME	MAC (MG/M ³)	MAC (PPM)	MAC SHORT TIME (MG/M ³)	MAC SHORT TIME (PPM)
4-Methyl-2-pentanol	100 mg/m ³			

MAK

PRODUCT NAME	MAK (MG/M ³)	MAK (PPM)	MAK SKIN RESORPTION	MAK CARCINOGENICITY
4-Methylpentan-2-ol	85 mg/m ³	20 ppm		

TLV

PRODUCT NAME	TLV-TWA (MG/M ³)	TLV-TWA (PPM)	TLV-STEL (MG/M ³)	TLV-STEL (PPM)
Methyl isobutyl carbinol		25 ppm		40 ppm

PERSONAL PROTECTION

Protective clothing
Gloves
Protective goggles
Head/neck protection
Gas mask with filter type A
High gas/vapour concentration: compressed air/oxygen
BA

ENVIRONMENTAL PROTECTION EQUIPMENT

MATERIALS FOR PROTECTIVE CLOTHING

GIVE GOOD RESISTANCE:
nitrile rubber
neoprene
GIVE POOR RESISTANCE:
PVA

9. PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION

STATE OF AGGREGATION	Liquid
ODOUR	alcohol odour
COLOUR	Blue
SOLUBILITY IN WATER	>50%

OTHER PROPERTIES

Clear, May generate electrostatic charges, The physical and chemical data in this section are typical values for this product and are not intended as product specifications.

VALUES OF PHYSICAL PROPERTIES

SPECIFIC GRAVITY	796.3 kg/m ³ @ 15°C
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REFRACTIVE INDEX @ 20°C 1.3939

HAZARDS FOR EXPLOSION AND FIRE

FLASHPOINT 12 °C

AUTO-IGNITION TEMPERATURE >300 °C

EXPLOSION RISK

EXPLOSIVE LIMITS (VOL%) 1.8 - 12%

10. STABILITY AND REACTIVITY

STABILITY

Stable under normal conditions

CHEMICAL REACTIONS

Upon combustion CO and CO₂ are formed

Reacts violently with (strong) oxidizers: (increased) risk of fire
(strong) acids

PROHIBITIONS ON MIXED STORAGE

KEEP SUBSTANCE AWAY FROM:

heat sources

ignition sources

oxidizing agents

(strong) acids

HAZARDOUS DECOMPOSITION PRODUCTS

11. TOXICOLOGICAL INFORMATION

VALUES OF CHRONIC TOXICITY

TOXICITY

Vapours may cause drowsiness and dizziness - Irritant to the eyes - Repeated exposure may cause skin dryness or - cracking

TOXICITY HAZARD

DIRECT TOXICITY HAZARD - Literature reports harmful - Irritating - Anesthetic in high concentrations

EFFECTS/SYMPTOMS

SYMPTOMS/INJURIES

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: - Headache - Dizziness - Nausea - Dry skin - Red skin - Swelling of the skin - Skin rash/inflammation

SYMPTOMS/INJURIES AFTER SKIN CONTACT

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:

Degreasing

Dry skin

SYMPTOMS/INJURIES AFTER INHALATION

drowsiness

Dizziness

Irritation of the respiratory tract

Nausea

Disturbances of consciousness

CNS depression

SYMPTOMS/INJURIES AFTER EYE CONTACT

Irritation of the eye tissue

SYMPTOMS/INJURIES AFTER INGESTION

Risk of aspiration pneumonia

Risk of lung oedema

12. ECOLOGICAL PROPERTIES

MOBILITY

ECOLOGY - GENERAL

Contains environmentally dangerous component(s)

ECOLOGY - WATER

Harmful to aquatic organisms

May cause long-term adverse effects in the aquatic

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environment
Water pollutant (surface water)
Ground water pollutant
Contains non readily biodegradable component(s)

PERSISTENCE AND DEGRADABILITY

WGK 2

13. DISPOSAL CONSIDERATIONS

Do not discharge into drains or the environment
Remove to an authorized waste treatment plant


DISPOSAL CODE

Package	
Plastic	15.01.10*
Metal	15.01.11*
Product	
Oil additives	12.01.12*
Fuel additives	14.06.03*
Aqueous solutions	20.01.29*
Airco-cleaner	20.01.19

14. TRANSPORT INFORMATION

UN number 1993
UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol, kerosine), 3, II

ROAD (ADR)

ADR CLASS	3	ADR CLASSIFICATION CODE	F1
		ADR SYMBOL	
			3 black - Flammable liquids
ADR-PACKING GROUP	II	STATE DURING TRANSPORT (ADR-RID)	Special Provision: 640D
DANGER CODE	33		

SEA (IMDG)

IMDG CLASS	3	EMS NUMBER	F-E, S-E
MARINE POLLUTANT	P	IMDG PACKAGE GROUP	II

AIR (IATA/ICAO)

ICAO CLASS	3	ICAO PACKAGE GROUP	II
ICAO INSTRUCTION PASSENGER	305/Y305	ICAO INSTRUCTION CARGO	307

15. REGULATORY INFORMATION

Classification and labelling according to the directives 67/548/EEC, 1999/45/EC, 98/8/EC and Regulation (EC) 648/2004.

NAME OF THE COMPONENTS DETERMINING THE DANGER

NAME	CAS NO
Kerosine (petroleum): Straight run kerosine	8008-20-6

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SYMBOL



F - highly flammable



Xn - harmful



N - dangerous for the environment

R-PHRASES

R11 - Highly flammable
R36/38 - Irritating to eyes and 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

S-PHRASES

S(02) - (Keep out of reach of children)

S7 - Keep container tightly closed

S16 - Keep away from sources of ignition - No smoking

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

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

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

16. OTHER INFORMATION

R-PHRASES

R10 - Flammable

R11 - Highly flammable

R22 - Harmful if swallowed

R34 - Causes burns

R36 - Irritating to eyes

R37 - Irritating to respiratory system

R38 - Irritating to skin

R41 - Risk of serious damage to eyes

R50 - Very toxic to aquatic organisms

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

REVISION

§9

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

This safety data sheet has been made in accordance with the directives 91/155/EEG, 93/112/EEG, 2001/58/EG and Reach regulation 1907/2006.

It completes the technical directions for use, but does not replace it.

The data mentioned on these documents are to our knowledge correct on the date of publication and are provided on the assumption that the product will be used as indicated by the manufacturer/supplier. The indication of these safety data, without being considered as complete, helps the user to fulfil his obligations with regard to dangerous substances. The user is obliged to evaluate the product and use it in a safe way in compliance with the effective laws and stipulations. The user has to make sure that all regulations as to human and environmental protection during handling, storage and use of the products are observed.