

Safety Data Sheet

according to Regulation (EU) 2015/830

Revision date: 12/19/2016

Supersedes: 3/1/2011 Version: 6.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product form	:	Mixtures
Product name	:	KEROSENE

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. **Relevant identified uses**

Use of the substance/mixture

: Heating oil, light

1.2.2. Uses advised against

No additional information available

Details of the supplier of the safety data sheet 1.3.

Tedcastles Oil Products Ltd Promenade Road Dublin Port, Dublin 3 - Ireland T 00353-1-8198000 - F 00353-1-8786635 safety@top.ie - www.top.ie

Emergency telephone number 1.4.

Emergency number

: 00353-1-8198000 (09:00 - 17:00 GMT)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226 Aspiration hazard, Category 1 H304

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



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Unknown acute toxicity (CLP: Classification,	 0% of the mixture consists of ingredient(s) of unknown acute oral toxicity 0% of the mixture consists of ingredient(s) of unknown acute dermal toxicity
	P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
	P405 - Store locked up
	P403+P235 - Store in a well-ventilated place. Keep cool
	P370+P378 - In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to extinguish
	P331 - Do NOT induce vomiting
	Rinse skin with water/shower
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
	P301+P310 - If swallowed: Immediately call a poison center or doctor
	P241 - Ose explosion proof electrical, lighting, ventilating equipment P280 - Wear protective gloves
	P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment
	P233 - Keep container tightly closed
	smoking
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	H304 - May be fatal if swallowed and enters airways
Hazard statements (CLP)	: H226 - Flammable liquid and vapour
Hazardous ingredients	: Kerosene
Signal word (CLP)	: Danger

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Labelling, Packaging.) - SDS Unknown hazards to the aquatic environment (CLP) 0% of the mixture consists of ingredient(s) of unknown acute inhalation (dust/mist) toxicity : Contains 0 % of components with unknown hazards to the aquatic environment

2.3. Other hazards

PBT: not yet assessed vPvB: not yet assessed

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Kerosene	(CAS No) 8008-20-6 (EC no) 232-366-4 (EC index no) 649-404-00-4	90 – 100	Asp. Tox. 1, H304

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES 4.1. Description of first aid measures First-aid measures general : Get medical advice/attention if you feel unwell. : Remove person to fresh air and keep comfortable for breathing. First-aid measures after inhalation First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. First-aid measures after eye contact In case of contact, immediately flush eyes with plenty of water. : Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. First-aid measures after ingestion 4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries after inhalation : Inhalation of vapours may cause respiratory irritation. Symptoms/injuries after skin contact : May cause slight irritation. Repeated exposure may cause skin dryness or cracking. Symptoms/injuries after eye contact : May cause slight irritation. Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways. 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES		
5.1. Extinguishing media		
Suitable extinguishing media	: Carbon dioxide. Dry chemical. Foam.	
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.	
5.2. Special hazards arising from	the substance or mixture	
Fire hazard	: Flammable liquid and vapour. Flammable vapours may accumulate in the container. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.	
Explosion hazard	: May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.	
5.3. Advice for firefighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers.	
Protection during firefighting	: Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. EN469.	

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protectiv	Personal precautions, protective equipment and emergency procedures		
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Avoid all eye and skin contact and do not breathe vapour and mist. Ensure adequate ventilation.		
6.1.1. For non-emergency personnel			
Protective equipment	: Refer to section 8.2.		
Emergency procedures	: Evacuate unnecessary personnel.		

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6.1.2. For emergency responders

6.1.2. For emergency responders				
Protective equipment	: Refer to section 8.2.			
Emergency procedures	: Stop leak if safe to do so. Ventilate area.			
6.2. Environmental precautions				
Do not discharge into drains or the envi	ronment.			
6.3. Methods and material for containment and cleaning up				
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.			
Methods for cleaning up	: Absorb and/or contain spill with inert material, then place in suitable container.			
•	n 7: safe handling. Section 8: personal protective equipment.			
SECTION 7: HANDLING AND	STORAGE			
7.1. Precautions for safe handlin	ng			
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.			
Precautions for safe handling	: No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid all eye and skin contact and do not breathe vapour and mist. Eliminate all ignition sources if safe to do so. Flammable vapours may accumulate in the container. Ensure good ventilation of the work station. Use personal protective equipment as required.			
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.			
7.2. Conditions for safe storage	, including any incompatibilities			
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof ventilating, lighting, electrical equipment. 			
Storage conditions	: Keep container tightly closed.			
Incompatible products	: Oxidizer. Reducing agents.			

- : Heat sources.
- Heat and ignition sources : Keep away from heat, sparks and flame.
 - : Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

Heating oil, light.

Storage area

Incompatible materials

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Kerosene (8008-20-6)		
Belgium	Limit value (mg/m ³)	200 mg/m ³
Belgium	Remark (BE)	D "(en vapeur d'hydrocarbure total)"
Poland	Local name	Nafta
Poland	NDS (mg/m ³)	100 mg/m ³
Poland	NDSCh (mg/m ³)	300 mg/m ³
Portugal	Local name	Queroseno / "Jet fuels", expresso em hidrocarbonetos totais na forma de vapor
Portugal	OEL TWA (mg/m ³)	200 mg/m ³
Spain	Local name	Queroseno
Spain	VLA-ED (mg/m ³)	200 mg/m ³ (combustible de aviación)
Spain	Notes	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento).
USA - ACGIH	ACGIH TWA (mg/m ³)	200 mg/m ³
USA - ACGIH	Remark (ACGIH)	Р

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8.2. Exposure controls

Appropriate engineering controls:

Avoid splashing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear suitable gloves. nitrile rubber gloves. EN374

Eye protection:

In case of splashing or aerosol production: protective goggles. EN166

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Approved respirator. EN 136/140

Environmental exposure controls:

Prevent leakage or spillage. Prevent contaminated water run-off.

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical ar	nd chemical properties
Physical state	: Liquid
Appearance	: Clear.
Colour	: Colourless.
Odour	: mild.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 150 - 290 °C
Flash point	: > 38 °C
Auto-ignition temperature	: 250 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour
Vapour pressure	: 3 kPa @ 20 °C
Relative vapour density at 20 °C	: >1
Relative density	: 0.77 - 0.82 @ 15 °C
Solubility	: Negligible.
Log Pow	: No data available
Viscosity, kinematic	: 1 - 2 mm²/s @ 20 °C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Lower explosive limit (LEL)	: 0.5 vol %
Upper explosive limit (UEL)	: 6 vol %

9.2. Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture. Vapour could travel to source of ignition and flash back.

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10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks.

10.5. Incompatible materials

Strong oxidizers. Reducing agents.

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS	 0% of the mixture consists of ingredient(s) of unknown acute oral toxicity 0% of the mixture consists of ingredient(s) of unknown acute dermal toxicity 0% of the mixture consists of ingredient(s) of unknown acute inhalation (dust/mist) toxicity
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
KEROSENE	
Viscosity, kinematic	1 - 2 mm²/s @ 20 °C

SECT	ION 12: ECOLOGICAL INFORM	ATION
12.1.	Toxicity	
Ecology	y - general	: Substance floats in water.
Unknov (CLP)	vn hazards to the aquatic environment	: Contains 0 % of components with unknown hazards to the aquatic environment
12.2.	Persistence and degradability	
KERC	DSENE	
Persis	stence and degradability	May cause long-term adverse effects in the environment.
12.3.	Bioaccumulative potential	
KERC	DSENE	
Bioac	cumulative potential	Not established.
12.4.	Mobility in soil	
KERC	DSENE	
Ecolo	gy - soil	Not established.
12.5.	Results of PBT and vPvB assessmen	ıt
KERC	DSENE	
PBT:	not yet assessed	
vPvB:	not yet assessed	
12.6.	Other adverse effects	
Additio	nal information	: No additional information available
SECT	ION 13: DISPOSAL CONSIDER	ATIONS
13.1.	Waste treatment methods	
Waste	disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additio	nal information	: Handle empty containers with care because residual vapours are flammable.

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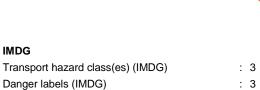
Ecology - waste materials European List of Waste (LoW) code : Hazardous waste due to toxicity.

: For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. 13 07 03* - other fuels (including mixtures)

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR)	: 1202
UN-No. (IMDG)	: 1202
UN-No. (IATA)	: 1202
UN-No. (ADN)	: 1202
UN-No. (RID)	: 1202
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: HEATING OIL, LIGHT
Proper Shipping Name (IMDG)	: HEATING OIL, LIGHT
Proper Shipping Name (IATA)	: Heating oil, light
Proper Shipping Name (ADN)	: HEATING OIL, LIGHT
Proper Shipping Name (RID)	: HEATING OIL, LIGHT
Transport document description (ADR)	: UN 1202 HEATING OIL, LIGHT, 3, III, (D/E)
Transport document description (IMDG)	: UN 1202 HEATING OIL, LIGHT, 3, III
Transport document description (IATA)	: UN 1202 Heating oil, light, 3, III
Transport document description (ADN)	: UN 1202 HEATING OIL, LIGHT, 3, III
Transport document description (RID)	: UN 1202 HEATING OIL, LIGHT, 3, III
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3





: 3 : 3

: 3 : 3

ΙΑΤΑ

IMDG

Transport hazard class(es) (IATA)	
Hazard labels (IATA)	

ADN
Transport hazard class(es) (ADN)
Danger labels (ADN)

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RID	
Transport hazard class(es) (RID)	: 3
Danger labels (RID)	: 3
14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	: 111
Packing group (IATA)	: 111
Packing group (ADN)	: 111
Packing group (RID)	: 111
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: F1
Special provisions (ADR)	: 640K, 363, 664
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T2
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	30
	30 1202
Tunnel restriction code (ADR)	: D/E
EAC code	: 3Y
- Transport by sea	
Special provisions (IMDG)	: 363
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
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Tank instructions (IMDG)	: T2
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Immiscible with water.
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L
- Inland waterway transport	
Classification code (ADN)	: F1
Special provisions (ADN)	: 363, 640K
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: F1
Special provisions (RID)	: 363, 640K
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T2
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

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VwVwS Annex reference	: Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: Kerosene is listed
SZW-lijst van mutagene stoffen	: Kerosene is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed
Denmark	
Classification remarks	: Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product
	Pregnant/breastfeeding women working with the product must not be in direct contact with th product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

	ATE: Acute Toxicity Estimate		
	CAS (Chemical Abstracts Service) num	nber	
	EC50: Environmental Concentration as	sociated with a response by 50% of the test population.	
	GHS: Globally Harmonized System (of	Classification and Labeling of Chemicals).	
LD50: Lethal Dose for 50% of the test population			
	PBT: Persistent, Bioaccumulative, Toxic		
STEL: Short Term Exposure Limits			
TWA: Time Weighted Average			
vPvB	Very Persistent and Very Bioaccumulative		
Data sources		ean Chemicals Agency (ECHA) C&L Inventory database. Accessed at echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database.	
		r Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing" Edition.	
	Nation edition	nal Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th	
	COUN mixture	JLATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE ICIL of 16 December 2008 on classification, labelling and packaging of substances and res, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending ation (EC) No 1907/2006.	
Other information	: None.		
Full text of H- and	d EUH-statements:		

Asp. Tox. 1	Aspiration hazard, Category 1	
H304	May be fatal if swallowed and enters airways	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008	[CLP]	1:
Blacombation and procedure about a denire the blacombation for mixtures according to regulation (20) 1212/2000		

Flam. Liq. 3	H226	Calculation method
Asp. Tox. 1	H304	Calculation method

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product