

KAST 5w30 Semi Synthetic - EEB40

SECTION 1	IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF COMPANY/UNDERTAKING
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1.1 Product Identifier	KAST 5w30 Semi Synthetic - EEB40
1.2 Relevant identified uses of the substance or mixture and uses advised against	Automotive engine crankcase lubricant. Do not use in any other application.
1.3 Company	MicksGarage.com, Unit 50, Park W Rd, Park West Industrial Park, Dublin 12, Ireland
1.4 Emergency Telephone Number	+353 1 440 6603 (Monday – Friday 09.00 – 17.00 hrs GMT)
1.5 Other Information	Preparation Date: 11/03/2015

SECTION 2	HAZARD IDENTIFICATION
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2.1 Classification of the substance or mixture	Not classified as hazardous in accordance with CLP (EC 1272/2008) and DPD (1999/45/EC)
2.2 Label Elements	No labelling required
2.3 Other Hazards	Not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 DMSO test.

SECTION 3	COMPOSITION/ INFORMATION ON INGREDIENTS
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3.2 Mixtures Component	EC No.	REACH Reg. No.	GHS Classification	DSD Classification	Conc. %
Polyolefin polyamine succinimide, polyol	Polymer	Not Available	Aquatic Chronic 4; H413	R53	2-3
Zinc dialkyl dithiophosphate	272-028-3	Not Available	Eye Dam. 1; H318 Aquatic Chronic 2; H411	Xi; R41 N; R51/53	<1.5
Calcium long chain alkaryl sulfonate	Polymer	Not Available	Skin Sens. 1; H317 Aquatic Chronic 4; H413	Xi; R43 R53	<0.5

SECTION 4	FIRST AID MEASURES
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4.1 Description of first aid measures	
Inhalation	If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice.
Eyes	Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.
Skin	Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.
Ingestion	If contamination of the mouth occurs, wash out thoroughly with water. Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, do not induce vomiting; obtain medical advice.
4.2 Most important symptoms and effects, both acute and delayed	No ill effects known
4.3 Indication of immediate medical attention and special treatment needed, if necessary	Eye contact: immediately wash out with plenty of water

SECTION 5	FIRE-FIGHTING MEASURES
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5.1 Extinguishing media	Foam, dry powder or water fog. Water can be used to cool and protect exposed material.
5.2 Specific hazards arising from the substance or mixture	Toxic fumes may be evolved on burning or exposure to heat. See Stability and Reactivity, Section 10 of this Safety Data Sheet.
5.3 Advice for fire-fighters	Wear self-contained breathing apparatus. Water may cause splattering.

KAST 5w30 Semi Synthetic - EEB40

SECTION 6	ACCIDENTAL RELEASE MEASURES
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6.1 Personal precautions, protective equipment and emergency procedures	Immediately evacuate all personnel from danger area. Wear Personal Protective Equipment. Eliminate all sources of heat, sparks, pilot lights, static electricity and open flames. Spilled material may make surfaces slippery.
6.2 Environmental precautions	Protect drains from potential spills to minimise contamination. Do not wash product into drainage system. In the case of large spills contact the appropriate authorities. In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and water supplies.
6.3 Methods and material for containment and cleaning up	Absorb into dry earth or sand. Protect drains using drain covers. Dispose of as hazardous waste.
6.4 Reference to other sections	Personal protective equipment: See section 8

SECTION 7	HANDLING AND STORAGE
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7.1 Precautions for safe handling	Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate. Avoid frequent or prolonged skin contact with fresh or used product. Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times. Wash hands thoroughly after contact. Use disposable cloths and discard when soiled. Do not put soiled cloths into pockets. Use a suitable barrier cream at regular intervals.
7.2 Conditions for safe storage, including any incompatibilities	Keep out of the reach of children. Store under cover away from heat and sources of ignition.
7.3 Specific end use(s)	Intended for use as an automotive engine crankcase lubricant.

SECTION 8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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8.1 Control parameters			
Country	Substance	Long Term (8 Hours TWA)	Short Term (15 Mins)
None			
8.2 Exposure controls	Use local exhaust ventilation to control mists or vapours.		
	Hand Protection:	Nitrile or neoprene protective gloves	
	Eye Protection:	Safety glasses	
	Skin Protection:	Protective clothing	
	Hygiene Measures:	Wash thoroughly after handling this product	

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES
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9.1 Information on basic physical and chemical properties	Does not constitute a specification	
Typical Values		
Grades:		Optima Vimax ZT 5W/30
	Units	
Appearance		Amber Liquid
Odour		Mild
Odour Threshold		No data available
pH		Not applicable
Pour point/range	°C	-33
Initial boiling point and range	°C	No data available
Flash point (COC)	°C	225
Flammability		Not flammable
Upper/lower flammability or explosive limits		Not applicable
Vapour pressure	kPa (0.1 mm Hg)	No data available
Relative density	kg/m³	0.882 @ 20°C

KAST 5w30 Semi Synthetic - EEB40

Solubility	- water	Insoluble
	- Fat/solvents	Soluble
Partition coefficient n-octanol/water		Not applicable
Autoignition temperature	Log Pow	No data available
Decomposition temperature		No data available
Viscosity	mm ² /s	70.52 @ 40°C
	mm ² /s	11.43 @ 100°C
Evaporation rate		Not applicable
Vapour density		Not applicable
Explosive properties		Not applicable
Oxidising properties		None
9.2 Other Information	None	

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity	No dangerous reactions known
10.2 Chemical stability	Stable under normal conditions of use
10.3 Possibility of hazardous reactions	None known
10.4 Conditions to avoid	Avoid overheating.
10.5 Incompatible materials	Avoid contact with strong oxidising agents
10.6 Hazardous decomposition products	Thermal decomposition products will vary with conditions. Incomplete combustion will generate smoke, carbon dioxide and hazardous gases, including carbon monoxide.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	
-Oral	No toxic components present at levels to cause classification.
-Inhalation	No toxic components present at levels to cause classification.
-Dermal	No toxic components present at levels to cause classification.
Corrosivity/Irritation	
-Eye	No components present that are classified as eye irritants.
-Skin	No components present that are classified as skin irritants but may cause skin irritation due to de-fatting effect on skin.
-Respiratory Tract	No components present that are classified as respiratory irritants.
Sensitisation	
-Skin	No evidence of sensitisation effects.
-Respiratory	No evidence of sensitisation effects.
Repeated-dose Toxicity	No data available.
Mutagenicity	No evidence of mutagenicity.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive Toxicity	No evidence of reproductive toxicity.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired
12.2 Persistence and Degradability	Not biodegradable.
12.3 Bioaccumulative Potential	There is no evidence to suggest bioaccumulation will occur.
12.4 Mobility in Soil	Spillages may penetrate the soil causing ground water contamination. Non-volatile.
12.5 Results of PBT and vPvB Assessment	No PBT or vPvB chemicals present.

KAST 5w30 Semi Synthetic - EEB40

12.6 Other Adverse Effects None known.

SECTION 13	DISPOSAL CONSIDERATIONS
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13.1 Waste Treatment Methods

Where possible, arrange for product to be recycled.
 Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.
 Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.

SECTION 14	TRANSPORT INFORMATION
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Not classified as hazardous for transport (ADR, RID, UN, IMO, and IATA/ICAO).

SECTION 15	REGULATORY INFORMATION
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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Supply regulations: DPD: Dangerous Preparations Directive; GHS: Globally Harmonised System of classification and labelling of chemicals; CLP: Classification, Labelling and Packaging regulations.
 Transport regulations: CDG: Carriage of Dangerous Goods regulations; ADR/RID/IMDG/ICAO/IATA regulations.

15.2 Chemical Safety Assessment

No formal chemical safety assessment has been carried out.

SECTION 16	OTHER INFORMATION
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Fourth Issue
 Third Issue October 2012: Changed to new format.
 Second version March 2012: Changed composition information
 First version October 2002: Changed to Reach version 2 format

Full text of classification data in sections 2 and 3

Asp. Tox. 1; H304	Aspiration hazard, Hazard Category 1; May be fatal if swallowed and enters airways
Skin Irrit. 2; H315	Skin corrosion/irritation, Hazard Category; Causes skin irritation
Skin Sens. 1; H317	Sensitisation, skin, Hazard Category 1; May cause an allergic skin reaction
Eye Dam. 1; H318	Serious eye damage/eye irritation, Hazard Category 1; Causes serious eye damage.
Aquatic Chronic 2; H411	Hazardous to the aquatic environment, long-term hazard, Hazard Category 2; Toxic to aquatic life with long lasting effects
Aquatic Chronic 4; H413	Hazardous to the aquatic environment, long-term hazard, Hazard Category 4; May cause long lasting harmful effects to the aquatic environment
Xi ; R41	Risk of serious damage to the eyes
Xi; R43	May cause sensitisation by skin contact
Xi; R38	Irritating to skin
Xn; R65	Harmful: may cause lung damage if swallowed
N ; R51/53	Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
R53	May cause long term adverse effects in the aquatic environment