

According to Regulation (EU) No 2015/830

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

#### 1.1. Product identifier

Product name : SHELL BRAKE AND CLUTCH FLUID DOT-4 ESL Product code : CRX824, LAO21; AT60H; AT59H; 30426; 09727129

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

Application : SU21 Consumer product. PC0 Other. Engine maintenance.

#### 1.3. Details of the supplier of the safety data sheet

Supplier : Kemetyl Accessories (UK) Ltd

Office 401, Index House SL5 7ET Ascot, Great Britain

Telephone : +44-1344 888909
E-mail : msds@kemetyl.com
Website : http://www.kemetyl.com

#### 1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

GB - Telephone : +44-1344 888909 (During office hours only)

EMERGENCY TELEPHONE NUMBER (for DOCTORS only):

National Poisons Information Service +44 344 892 0111 (24/7)

#### SECTION 2 HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

CLP classification : Reproductive toxicity, category 2.

(1272/2008/EC)

Human health hazards : Suspected of damaging the unborn child.

Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives. Environmental hazards : Not classified as dangerous according to statutory EC-Directives.

#### 2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms



Signal word : Warning

H- and P-phrases : H361d Suspected of damaging the unborn child.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P201 Obtain special instructions before use.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container to an official chemical waste depot.

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Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:

Hazard pictograms

Signal word : Warning

H- and P-phrases : H361d Suspected of damaging the unborn child.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P201 Obtain special instructions before use.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

: Contains: Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate .

Other information : According to Regulation (EC) No 1272/2008, the packaging of this product shall carry a tactile

warning of danger.

2.3. Other hazards

Other information : Does not contain PBT or vPvB substances.

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration	CAS nr.	EC number	Remark	REACH nr.
	(w/w) (%)				
Tris[2-[2-(2-methoxyethoxy)ethoxy]eth-	30 - 70	30989-05-0	250-418-4		01-2119462824-33
yl] orthoborate					
2-(2-Methoxyethoxy)ethanol	0,4 - 1,5	111-77-3	203-906-6		01-2119475100-52

Substance name	Hazard Class	H-phrases	Pictograms	
Tris[2-[2-(2-methoxyethoxy)ethoxy]eth-	Repr. 2	H361d	GHS08	
yl] orthoborate				
2-(2-Methoxyethoxy)ethanol	Repr. 2	H361d	GHS08	

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

## SECTION 4 FIRST-AID MEASURES

## 4.1. Description of first aid measures

First aid measures

Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.

Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries

up.

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Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor if irritation persists.

Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth

to an unconscious person. Consult a doctor if victim feels unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Effects and symptoms

Inhalation : No specific effects and/or symptoms are known. Skin contact : No specific effects and/or symptoms are known.

Eye contact : May cause stinging of eyes and redness.

Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians : None known.

#### SECTION 5 FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

Extinguishing media

Suitable : Carbondioxide (CO2). Foam. Dry chemical. Water fog.

Not suitable : None known.

#### 5.2. Special hazards arising from the substance or mixture

Special exposure hazards : None known.

Hazardous thermal : Carbon monoxide may be evolved if incomplete combustion occurs.

decomposition products

#### 5.3. Advice for firefighters

Special protective : Use adequate respiratory equipment in case of insufficient ventilation.

equipment for fire-fighters

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with

spilled or released material.

## 6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills:

contain with dike.

Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to

occur.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an

authorised waste collection point. Wash away remainder with plenty of water and soap.

#### 6.4. Reference to other sections

Reference to other sections: See also section 8.

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#### SECTION 7 HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.

Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep in a cool, dry and well-ventilated place (< 35 °C). Keep away from food, drink and animal

feedingstuffs.

Recommended packaging : Keep only in the original container.

Non recommended

packaging

: None known.

## 7.3. Specific end use(s)

Use : Use only as directed.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Occupational exposure

limits

: Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have

not been established for this product.

#### Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour	STEL 15 min	Comments	Source
		(mg/m3)	(mg/m3)		
2-(2-Methoxyethoxy)ethanol	EC	50,1	-	skin	
2-(2-Methoxyethoxy)ethanol	GB	50,1	-	Skin	

### Derived no-effect level (DNEL) for workers:

Chemical name	Route of	DNEL, short-term		DNEL, long-term	
	exposure				
		Local effect	Systemic effect	Local effect	Systemic effect
Tris[2-[2-(2-methoxyethoxy)ethoxy]eth-yl] orthoborate	Dermal				8,3 mg/kg bw/day
	Inhalation Inhalation Dermal				29,1 mg/m3 50.1 mg/m3 2.22 mg/kg bw/day

## Derived no-effect level (DNEL) for consumers:

Chemical name	Route of	DNEL, short-term		DNEL, long-term	
	exposure				
		Local effect	Systemic effect	Local effect	Systemic effect
Tris[2-[2-(2-methoxyethoxy)ethoxy]eth-	Inhalation				7,2 mg/m3
yl] orthoborate					
	Dermal				4,1 mg/kg bw/day
	Oral				4,1 mg/kg bw/day
2-(2-Methoxyethoxy)ethanol	Inhalation				30.1 mg/m3
	Dermal				1.33 mg/kg bw/day
	Oral		İ		7.5 mg/kg bw/day

Predicted no-effect concentration (PNEC):

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Chemical name	Route of exposure	Fresh water	Marine water	
Tris[2-[2-(2-	Water	0,2112 mg/l	0,02112 mg/l	
methoxyethoxy)ethoxy]ethyl]				
orthoborate				
	Sediment	0,76 mg/kg	0,076 mg/kg	
	Intermittent water			2,112 mg/l
	STP			100 mg/l
	Soil			0,0283 mg/kg
2-(2-Methoxyethoxy)ethanol	Water	12 mg/l	1.2 mg/l	
	Sediment	44.4 mg/kg	0.44 mg/kg	
	Intermittent water			12 mg/l
	STP			10000 mg/l
	Soil			2.1 mg/kg
	Oral			0.09 mg/kg food

#### 8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working

with chemicals. See Directive 2004/37/EG on the protection of workers from the risks related to

exposure to carcinogens or mutagens at work.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN

365/367 resp. 345. Suitable material: nitril. Indication of permeation breakthrough time: 6 hours.

Respiratory protection : Take care of sufficient ventilation.

Hand protection : Under normal conditions of use specific gloves are not required. Wear suitable gloves in case of

frequent or prolonged use and in case of large scale exposure in accordance with EN 374. Suitable

Not measured. Not relevant for mixtures.

material: nitril.  $\pm$  0,5 mm. Indication of permeation breakthrough time: 6 hours.

Liquid. See flashpoint.

Eye protection : Wear appropriate safety glasses when there is danger of possible eye contact.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

Appearance : Liquid.
Colour : Amber.
Odour : Characteristic.
Odour threshold : Not known.
pH : 7 - 11,5
Solubility in water : Soluble.

Partition coefficient (n-octanol/water)

Flash point

: 125 °C

: Not known.

Flammability (solid, gas) : Not applicable.

Auto ignition temperature : 246 °C

Boiling point/boiling range : 260 - 275 °C

Melting point/melting range : < -70 °C

Explosive properties : Not an explosive.

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Explosion limits (% in air) : Not known.

Oxidising properties : Not applicable. Does not contain oxidizing substances.

Decomposition temperature: Not applicable.
Viscosity (20°C): Not known.
Viscosity (40°C): 650 mm2/sec
Vapour pressure (20°C): Not known.

Vapour density (20°C) : Not relevant. The solvent content of this product is less than 1%.

Relative density (20°C) : 1,07 g/ml Evaporation rate : Not known.

9.2. Other information

Other information : Not relevant.

#### SECTION 10 STABILITY AND REACTIVITY

#### 10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : No specific recommendations.

10.6. Hazardous decomposition products

Hazardous decomposition : Not known.

products

#### SECTION 11 TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological research has been carried out on this product.

Inhalation

Acute toxicity : Not classified due to lack of data. Not classified due to lack of data. No specific effects and/or

symptoms are known.

Corrosion/irritation : No specific effects and/or symptoms are known. Not classified - based on available data, the

classification criteria are not met.

Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available

data, the classification criteria are not met.

Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the

classification criteria are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Skin contact

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Acute toxicity

: Calculated LD50: > 3391 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation : No specific effects and/or symptoms are known. Not classified - based on available data, the

classification criteria are not met.

Sensitisation : Does not contain skin sensitisers. Not classified - based on available data, the classification criteria

are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Eye contact

Corrosion/irritation : Slight irritation possible. Not classified - based on available data, the classification criteria are not

met.

Ingestion

Acute toxicity : Calculated LD50: > 2656 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met.

Aspiration : Not classified - based on available data, the classification criteria are not met. Does not contain

substances with an aspiration hazard.

Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea.

Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the

classification criteria are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Reprotoxicity : Possible risk of harm to the unborn child. Fertility: not expected to be reprotoxic. Fertility: Not

classified - based on available data, the classification criteria are not met.

### Toxicological information:

Chemical name	Property		Method	Test animal
Tris[2-[2-(2-	LD50 (oral)	> 2000 mg/kg bw	OECD 401	Rat
methoxyethoxy)ethoxy]ethyl]				
orthoborate				
	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	Rat
	Skin irritation	Non-irritant	OECD 404	Rabbit
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	NOAEL (oral)	> 170 mg/kg bw/d	OECD 407	Rat
	Genotoxicity - in vitro	Not genotoxic	OECD 473	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (development,	250 mg/kg bw/d	OECD 414	Rat
	oral)			

#### SECTION 12 ECOLOGICAL INFORMATION

#### 12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish): 428 mg/l. Calculated EC50 (waterflea): 82 mg/l. Contains 0 % of

components with unknown hazards to the aquatic environment. Not classified - based on available

data, the classification criteria are not met.

#### 12.2. Persistence and degradability

Persistence – degradability: No specific information known.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

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12.4. Mobility in soil

Mobility : If product enters soil, it will be highly mobile and may contaminate groundwater.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances.

12.6. Other adverse effects

Other information : Not applicable.

#### SECTION 13 DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat

product residues and non-empty pack as hazardous waste.

Additional warning : None.

Waste water discharge : Do not dispose into the environment, in drains or in water courses.

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a

 $waste\ code\ according\ to\ Commission\ Decision\ 2000/532/EC\ to\ an\ official\ chemical\ waste\ depot.$ 

Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Local regulations may be more stringent than regional or national requirements and must be

complied with.

#### SECTION 14 TRANSPORT INFORMATION

#### 14.1. UN number or ID number

UN nr. : None.

#### 14.2. UN proper shipping name

Transport name : Not regulated.

### 14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : This product is not classified according to ADR/RID/ADN.

IMDG (sea)

Class : This product is not classified according to IMDG.

Marine pollutant : No

IATA (air)

Class : This product is not classified according to IATA.

#### 14.6. Special precautions for user

Other information : Country specific variations may apply.

#### 14.7. Maritime transport in bulk according to IMO instruments

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO)

instruments. Packaged liquids are not considered bulk.

## SECTION 15 REGULATORY INFORMATION

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

Community regulations : Regulation (EU) No 2015/830 (REACH), Regulation (EC) No 1272/2008 (CLP) and other

regulations.

#### 15.2. Chemical safety assessment

Chemical safety :

: Not applicable.

assessment

#### SECTION 16 OTHER INFORMATION

#### 16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2015/830 dated 28 May 2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (\*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE : Acute Toxicity Estimate

CLP : Classification, Labeling & Packaging

CMR : Carcinogenic, Mutagenic or toxic for Reproduction

EEC : European Economic Community

GHS : Globally Harmonized System of Classification and Labelling of Chemicals

IATA : International Air Transport Association IBC code : International Bulk Chemical Code

IMDG : International Maritime Dangerous Goods Code LD50/LC50 : Lethal Dose/Concentration for 50% of a population

MAC : Maximum Allowable Concentration

MARPOL : International Convention for the Prevention of Pollution From Ships

NO(A)EL : No Observed (Adverse) Effect Level

OECD : Organisation for Economic Co-operation and Development

PBT : Persistent, Bioaccumulative and Toxic

PC : Chemical product category

PT : Product type

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulations concerning the International Carriage of Dangerous Goods by Rail

STP : Sewage Treatment Plant

SU : Sector of Use

TWA/STEL : Time-Weighted Average/Short Term Exposure Limit

UN : United Nations

VOC : Volatile Organic Compounds

vPvB : Very Persistent and Very Bioaccumulative

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Repr. 2 : Calculation method.

Full text of hazard classes mentioned in section 3:

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Full text of H-phrases mentioned in section 3:

H361d Suspected of damaging the unborn child.

Advice on any training appropriate for workers: none.

Number format : "," used as decimal separator.

End of safety data sheet.

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