SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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RIGEL-G

Revision 20 Revision date 2016-10-04

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	RIGEL-G
Product code	qafs559

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

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites;

[SU21] Consumer uses: Private households (= general public = consumers);

[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [SU1] Agriculture, forestry, fishery;

Description No data is available on this product.

1.3. Details of the supplier of the safety data sheet

Company Orion Future Technology Ltd

Address Henwood House, Henwood. Ashford, Kent, TN24 8DH

Web www.orionft.com
Telephone 0800 002 5980
Email gidon@orionft.com
Email address of the gidon@orionft.com
competent person

1.4. Emergency telephone number

Emergency telephone number	0800 002 5980
	9am - 5nm

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification -	Xn; R22 Xi; R41 R10
1999/45/EC	Symbols: Xn: Harmful.
NA. 1. 1	E1 11 11 6 116

Main hazards Flammable. Harmful if swallowed. Risk of serious damage to eyes.

2.1.2. Classification - EC
Flam. Liq. 3: H226; Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Acute Tox. 4: H332;

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1272/2008

2.2. Label elements

Hazard pictograms







Signal Word

Hazard Statement

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Flam. Lig. 3: H226 - Flammable liquid and vapour.

Acute Tox. 4: H302 - Harmful if swallowed.

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2.2. Label elements

Z.Z. Label elements	
	Skin Irrit. 2: H315 - Causes skin irritation.
	Eye Dam. 1: H318 - Causes serious eye damage.
	Acute Tox. 4: H332 - Harmful if inhaled.
Precautionary Statement:	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
Prevention	smoking.
	P233 - Keep container tightly closed.
	P240 - Ground/bond container and receiving equipment.
	P241 - Use explosion-proof electrical/ventilating/lighting// equipment.
	P242 - Use only non-sparking tools.
	P243 - Take precautionary measures against static discharge.
	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264 - Wash hands and other contacted skin thoroughly after handling.
	P270 - Do no eat, drink or smoke when using this product.
	P271 - Use only outdoors or in a well-ventilated area.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement:	P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ /if you feel unwell.
Response	P302+P352 - IF ON SKIN: Wash with plenty of water/ .
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse
	skin with water/shower.
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	P310 -Immediately call a POISON CENTER/doctor/ .
	P312 - Call a POISON CENTER/doctor/ /if you feel unwell.
	P321 - Specific treatment (see % on this label).
	P330 - Rinse mouth.
	P332+P313 - If skin irritation occurs: Get medical advice/attention.
	P370+P378 - In case of fire: Use to extinguish.
Precautionary Statement:	P403+P235 - Store in a well-ventilated place. Keep cool.
Storage	DEGAT. Displace of contents/contained to an annual of weeks contracted
Precautionary Statement:	P501 - Dispose of contents/container to an approved waste contractor.
Disposal	1
2.3. Other hazards	

Other hazards	PBT not identified as a PBT substance.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Polyether modified polysiloxane		134180-76-0			1 - 10%	5 Xn; R20/21 Xi; R38-41 N; R51/53	
Salicylaldehyde		90-02-8	201-961-0	01-2119931635-36	40 - 50%	5 Xn; R22	
Alkyloxypolyethyleneoxyethanol		68131-40-8			30 - 40%	5 Xn; R22 Xi; R41	

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3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
tetraethyl silicate (Tetraethylacetate)	014-005-00-0	78-10-4	201-083-8	01-2119496195-28	10 - 20%	Flam. Liq. 3: H226; Eye Irrit. 2: H319; Acute Tox. 4: H332; STOT SE 3: H335;	
Polyether modified polysiloxane		134180-76-0			1 - 10%	Acute Tox. 4: H312+H332; Eye Irrit. 2: H319; Aquatic Chronic 2: H411;	
Arnica Extract H.G.		8001-21-6	232-273-9		0 - 0.5%		
Salicylaldehyde		90-02-8	201-961-0	01-2119931635-36	40 - 50%	Acute Tox. 4: H302;	
Alkyloxypolyethyleneoxyethanol		68131-40-8			30 - 40%	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Acute Tox. 4: H332;	

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Product Shelf Life	Recommended shelf life 3 years from date of delivery.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed.
Skin contact	Remove contaminated clothing. Wash with water and soap as a precaution.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly.

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

Inhalation	High concentration of vapour in enclosed space may cause irritation, headaches and nausea. May
	cause irritation to respiratory system.
Eye contact	Causes serious eye damage.
Skin contact	May cause skin dryness and irritation. Prolonged contact may cause defatting of the skin.
Ingestion	May cause irritation to mucous membranes.

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

	TREAT SYMPTOMATICALLY.	
Inhalation	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.	
Eye contact	Contact lenses should be removed. Rinse immediately with plenty of water. Seek medical attention if irritation or symptoms persist.	
Skin contact	Seek medical attention if irritation or symptoms persist.	
Ingestion	Drink 1 to 2 glasses of water. Seek medical attention if irritation or symptoms persist.	
Concret information		

General information

If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Flammable liquid. Use extinguishing measures that are appropriate to local circumstances and the
surrounding environment.

5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary.

Further information

In the event of a fire and/or explosion do not breath fumes. Standard procedure for chemical fires.

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Further information			
	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
SECTION 6: Accidental re	elease measures		
6.1. Personal precautions, pr	otective equipment and emergency procedures		
	Wear suitable protective equipment. Flammable liquid. Avoid sparks, flames, heat and sources of ignition.		
6.2. Environmental precaution	ns		
	Advise local authorities if large spills cannot be contained.		
6.3. Methods and material for	r containment and cleaning up		
	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Avoid sparks, flames, heat and sources of ignition.		
6.4. Reference to other section	ons		
	See section 2, 7, 8, 13 for further information.		
SECTION 7: Handling and	d storage		
7.1. Precautions for safe han	dling		
	Adopt best Manual Handling considerations when handling, carrying and dispensing.		
7.2. Conditions for safe stora	ge, including any incompatibilities		
	Flammable liquid. Avoid sparks, flames, heat and sources of ignition. Avoid storing in direct Sun Light. Store in a well-ventilated place. Keep cool. Store in original container. Keep container tightly closed. Keep away from combustible material. Keep out of the reach of children.		
7.3. Specific end use(s)			
	No data is available on this product.		
Suitable packaging			
	Plastic containers.		
SECTION 8: Exposure co	ntrols/personal protection		
8.1. Control parameters			
	Occupational exposure controls.		
8.2. Exposure controls			
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Use appropriate personal protective equipment. Wear suitable protective clothing and eye/face protection.		
Eye / face protection	Avoid contact with eyes. If splashes are likely to occur, wear: safety glasses with side-shields.		
Skin protection - Rubber gloves. Handprotection			
Respiratory protection	No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.		

Prevent further leakage or spillage if safe to do so.

8.2.3. Environmental exposure

controls

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9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Amber
Odour	Characteristic
Odour threshold	No data available
pH	No data available
Melting point	No data available
Initial boiling point	No data available
Flash point	44.5 °C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	1.07 - 1.078 g/cm3
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	< 50 centipoise
Explosive properties	No data available
Oxidising properties	No data available
Solubility	No data available

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic	
compounds)	

SECTION 10: Stability and reactivity

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10.1. Neactivity		
	Flammable liquid. Stable under normal conditions.	
10.2. Chemical stability		
	Flammable liquid. Stable under normal conditions.	
10.3. Possibility of hazardous reactions		
Oxidising agents. Combustible materials.		
10.4. Conditions to avoid		
	Avoid sparks, flames, heat and sources of ignition. Avoid storing in direct Sun Light.	

10.5. Incompatible materials

Oxidising agents. 10.6. Hazardous decomposition products

No Hazardous decomposition products when stored and handled correctly. Burning produces irritating, toxic and obnoxious fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation	Not anticipated under normal conditions of use. May cause irritation to skin.		
Serious eye damage/irritation	Not anticipated under normal conditions of use. Causes serious eye damage.		

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	Nevision date 2010-10-0		
11.1. Information on toxicologic	cal effects		
Respiratory or skin sensitisation	Not anticipated under normal conditions of use. May cause irritation to respiratory system.		
Repeated or prolonged exposure	Prolonged contact may cause defatting of the skin.		
11.1.2. Mixtures			
	No data available.		
11.1.3. Hazard Information			
	No data available.		
11.1.4. Toxicological Information	on		
	No data available		
SECTION 12: Ecological in	formation		
12.1. Toxicity			
	No data available		
12.2. Persistence and degrada	bility		
	Substance biodegrades at a moderate rate and inherently biodegradable according to the OECD guide lines.		
12.3. Bioaccumulative potentia	I		
	No data is available on this product.		
Partition coefficient			
	RIGEL-G No data available		
12.4. Mobility in soil			
	No data is available on this product.		
12.5. Results of PBT and vPvE	3 assessment		
	No data is available on this product.		
12.6. Other adverse effects			
	No data available.		
SECTION 13: Disposal cor	siderations		
13.1. Waste treatment method	S		
	Dispose of waste and residues in accordance with local authority requirements.		
General information			
	Dispose of in compliance with all local and national requirements.		
Disposal of packaging			
	Do NOT reuse empty containers. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.		
SECTION 14: Transport inf	ormation		
Hazard pictograms			

Hazard pictograms



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	Tevision date 2010-10-04			
14.1. UN number				
	UN1993			
14.2. UN proper shipping name				
	FLAMMABLE LIQUID, N.O.S. (contains Tetraethyl silicate solution)			
14.3. Transport hazard class(es))			
ADR/RID	3			
Subsidiary risk] -			
IMDG	3			
Subsidiary risk	-			
IATA	3			
Subsidiary risk	-			
14.4. Packing group				
Packing group	III			
14.5. Environmental hazards				
Environmental hazards	No			
Marine pollutant	No			
ADR/RID	ADR/RID			
Hazard ID	30			
Tunnel Category	(D/E)			
IMDG				
EmS Code	F-E S-E			
IATA				
Packing Instruction (Cargo)	366			
Maximum quantity	220 L			
Packing Instruction	355			
(Passenger)				
Maximum quantity	60 L			

SECTION 15: Regulatory information

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

Regulations

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

Other information

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Other information				
Revision	This document differs from the previous version in the following areas:. 3 - Product Shelf Life.			
Text of risk phrases in Section 3	R20/21 - Harmful by inhalation and in contact with skin. R22 - Harmful if swallowed. R38 - Irritating to skin. R41 - Risk of serious damage to eyes. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.			
Text of Hazard Statements in Section 3	Flam. Liq. 3: H226 - Flammable liquid and vapour. Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H332 - Harmful if inhaled. STOT SE 3: H335 - May cause respiratory irritation. Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. Acute Tox. 4: H302 - Harmful if swallowed. Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled Skin Irrit. 2: H315 - Causes skin irritation. Eye Dam. 1: H318 - Causes serious eye damage.			
Further information				
	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.			