Viaform Liquid

Supplier: J C Peacock & company Ltd. t/a Peacock Salt
North Harbour, Ayr, KA8 8AE
Tel: 01292 292000
Email: info@peacocksalt.co.uk

CAS No:	590-29-4
Composition:	50wt% Potassium Formate solution
Corrosion Inhibitors:	<0.5 wt%
Odour:	None
Surface Active Compounds:	None
Viscosifiers:	None
Appearance:	Clear and Colourless liquid

Density at 20° C	1330-1370kg/m^3
Viscosity at 0°C	5 cP max
25°C	3 cP max

Flash Point(boiling point)	>100°C
Freezing Point:	less than -50°C
Miscibility with Water	Complete
pH	Typical 10.9-11.4
pH 10% w/w dest. Water	Typical 10.5

Temperature	Viscosity (cP)
-30	25
-20	12
-10	7.2
0	5.0
10	3.7
20	2.9
30	2.1
40	1.8

Materials compatible with Viaform Liquid.

Metals	Polymers, composite materials and Rubbers
Stainless steel	Polyethylene
Aluminum Alloys	Ploycarbonate
Magnesium alloys	Acrilic
Titanium	Polychiroprene
Cadmium plated Steel	Polytetraflouoethene
Copper	Vulcanized Ethylene-propylene
Carbon Steel	Painted surfaces
	Bitumen
	Glass
	Reinforced polyester fibreglass
	Silicone
	Polymethacylate
	Concrete
	Rubber Std. (N/R 1) (H) (FPM/1) (MQ/1) (CR/1) (EP/1)
	Composite Carbon/Epoxy laminate
	Composite Glass/Epoxy Laminate
Note Viaform Granular may be corrosive with galvanised steel. The corrosion rate of viaoform is low with approx 0.07mg/cm^2 per day (compared to Na Cl at 0.2cm^2 per day	

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Environmental Data

Results:
1. Fish toxicity: 2.5
2. Bacterial toxicity: 1.2
3. Mammal toxicity: 1,0
Average**: 1.6**

The average value corresponds to the following Water Hazardous Classification:

Average value	Water Hazardous
0 - 1.9 0	Not hazardous to water
2.0 - 3.9 1	Slightly hazardous to water
4.0 - 5.9 2	Hazardous to water
6.0 3	Strongly hazard

Biodegradability

Results:

	BOD14 (mg O/l)	Lag phase(days)	Biodegradation(%) after 14 days
VIAFORM® LIQUID	640	5	90
Sodium Formate	631	5	90

VIAFORM® LIQUID (potassium formate) and sodium formate are easily and totally biodegradable with very low oxygen consumption. Totally 90 % of the VIAFORM® LIQUID and sodium formate were biodegraded within 14 days.

According to data from the Huntingdon test, VIAFORM® LIQUID seems to have a slow initial degradation (the first 5 days). However, more than 60% of the VIAFORM® LIQUID is biodegraded within 10 days and 90% within 15 days.

Biodegradation studies performed at Jordforsk using VIAFORM® LIQUID showed a slightly prolonged lag phase, approx. 5 days. However, after 14 days more than 90% of VIAFORM® LIQUID was biodegraded.

Important factors:
* The total oxygen consumed during the degradation process is very low – Typically 1/3 compared with potassium acetate based products
* The end products is harmless (CO2 and Water)
* The product is totally and readily biodegradable.

JC PEACOCK & COMPANY LTD, NORTH HARBOUR, AYR, KA8 8AE – TEL 01292 292 000 – FAX 01292 292 001

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Indicative application rates VIAFORM® LIQUID:

These recommended values can vary depending on elements like weather conditions, surface materials and spraying conditions.

Frost or ice layer <1mm		Frost or ice layer 1-3mm	
Temperature	Dosage	Temperature	Dosage
0 to -5°C	11 to 18 ml/m²	0 to -5°C	22 to 30 ml/m²
-5 to -10°C	18ml to 26 ml/m²	-5 to -10°C	30 to 44 ml/m²

VIAFORM® LIQUID is available: -

- in 15 ltr Jerry can
- in 1000 ltr IBC containers

VIAFORM® LIQUID is delivered ready to use and must not be diluted due to the content of the corrosion inhibitor and the optimal melting capacity of VIAFORM® LIQUID at a concentration of 50 %.

VIAFORM® LIQUID can be stored in clean tanks made of polyethylene, fiberglass (approved for high pH) and painted or unpainted stainless steel. The use of galvanized steel in storage installations should be avoided due to the risk of corrosion.

VIAFORM® LIQUID is not classified as dangerous goods.

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