300553

**VERTISE FLOW** 



# Safety Data Sheet VERTISE FLOW

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

## 1.1. Product identifier

: VERTISE FLOW

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

#### Relevant identified uses

Product name

Main use category

Function or use category

: Professional use

: Dental materials.

#### Uses advised against

No additional information available

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

Supplier Kerr Italia S.r.I. Via Passanti, 332 84018 Scafati (SA) - Italy T +39-081-850-8311 E-mail: safety@kerrhawe.com

Contact person : safety@kerrhawe.com - tel. 00-800-41-050-505 (08.00-17.00)

#### 1.4. Emergency telephone number

Emergency number

CHEMTREC® Emergency Call Center. Emergency Telephone Number (for USA only) 001-800-424-9300 International and Maritime Telephone Number +1 (703) 527-3887

Country	Organisation/Company	Address	Emergency number
United Kingdom	National Poisons Information Service (Newcastle Unit)	Claremont Place Newcastle-upon-Tyne, Newcastle	+44 191 2606182/+44 191 2606180 24H

Manufacturer

Kerr Italia S.r.l.

Via Passanti, 332

T +39-081-850-8311

84018 Scafati (SA) - Italy

E-mail: safety@kerrhawe.com

# SECTION 2: HAZARDS IDENTIFICATION

## 2.1. Classification of the substance or mixture

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

Skin Sens. 1	H317
Aquatic Chronic 3	H412

Full text of classification categories and H statements : see section 16

## 2.2. Label elements

Hazard pictograms (CLP)

		GHS07
Signal word (CLP)	:	Warning
Hazardous ingredients	:	2-hydroxyethyl methacrylate, mequinol, 4-methoxyphenol, hydroquinone monomethyl ether
Hazard statements (CLP)	:	H317 - May cause an allergic skin reaction H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (CLP)	:	P272 - Contaminated work clothing should not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

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#### Extra phrases

## **VERTISE FLOW**

s :

The product is seen as a medical device and therefore not subject to labelling (EUregulation 1907/2006, article 2, paragraph 6c).

#### 2.3. Other hazards

Other hazards not contributing to the classification

: None under normal conditions.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1. Substance

Not applicable

## 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-hydroxyethyl methacrylate	(CAS No) 868-77-9 (EC no) 212-782-2 (EC index no) 607-124-00-X (REACH-no) 01-2119490169-29	=>4-<10	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317
mequinol, 4-methoxyphenol, hydroquinone monomethyl ether	(CAS No) 150-76-5 (EC no) 205-769-8 (EC index no) 604-044-00-7 (REACH-no) 01-2119541813-40	< 1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317
zinc oxide	(CAS No) 1314-13-2 (EC no) 215-222-5 (EC index no) 030-013-00-7 (REACH-no) 01-2119463881-32	< 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES				
4.1. Description of first aid measures				
First-aid measures general	: No particular/specific measures required.			
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.			
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.			
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell.			
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Call a POISON CENTER or doctor/physician if you feel unwell.			
4.2. Most important symptoms and effects, both acute and delayed				
Symptoms/injuries after skin contact	: May cause an allergic skin reaction.			
4.3. Indication of any immediate medica	l attention and special treatment needed			
No specific measures identified.				
SECTION 5: FIREFIGHTING MEASURES				
5.1. Extinguishing media				
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.			
Unsuitable extinguishing media	: Do not use a heavy water stream.			
5.2. Special hazards arising from the substance or mixture				
Fire hazard	: Non flammable.			
Explosion hazard	: Product is not explosive.			
Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide.			
5.3. Advice for firefighters				
Firefighting instructions	: Use water spray or fog for cooling exposed containers.			
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.			

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SECTION 6: ACCIDENTAL RELE	ASE MEASURES	
6.1. Personal precautions, protectiv	e equipment and emergency procedures	
General measures	: Avoid contact with skin and eyes. Wear chemically protective glov prevent prolonged or repeated skin contact.	es, lab coat or apron to
For non-emergency personnel Protective equipment	: See Heading 8.	
Emergency procedures	: Evacuate unnecessary personnel.	
For emergency responders No additional information available		
6.2. Environmental precautions Avoid release to the environment.		
6.3. Methods and material for conta	inment and cleaning up	
For containment	: Collect all waste in suitable and labelled containers and dispose a legislation.	ccording to local
Methods for cleaning up	: Large spills: scoop solid spill into closing containers.	
6.4. Reference to other sections		
For further information refer to section 13.		
SECTION 7: HANDLING AND ST	ORAGE	
7.1. Precautions for safe handling		
Precautions for safe handling	: Do not eat, drink or smoke when using this product. Keep away from sparks, open flames and other ignition sources. No smoking.	om heat, hot surfaces,
7.2. Conditions for safe storage, inc		
Storage conditions	: Keep away from heat, hot surfaces, sparks, open flames and othe smoking. Store in original container. Store in a dry place. Store in	
Incompatible products	<ul><li>Oxidizing agent. Strong acids.</li><li>Store in a well-ventilated place.</li></ul>	
Storage area	. Store in a weil-ventilateu place.	
<b>7.3. Specific end use(s)</b> Consult the supplier for further information.		
SECTION 8: EXPOSURE CONTR		
8.1. Control parameters	OLS/PERSONAL PROTECTION	
No additional information available		
8.2. Exposure controls		
Appropriate engineering controls	: Ensure good ventilation of the work station.	
Personal protective equipment	: Gloves. Safety glasses.	
Hand protection	<ul> <li>Wear suitable gloves. Nitrile rubber gloves. Layer thickness : 0,09/ &gt;480 min. STANDARD EN 374.</li> </ul>	mm. Breakthrough time :
Eye protection	: Safety glasses. STANDARD EN 166.	
Skin and body protection	: Wear suitable protective clothing	
Respiratory protection	: Respiratory protection not applicable	
Other information	: Do not eat, drink or smoke during use.	
SECTION 9: PHYSICAL AND CH	EMICAL PROPERTIES	
9.1. Information on basic physical a	and chemical properties	
Physical state	: Liquid	

: Paste.
: Various.
: Fruity. Ester.
: No data available
: No data available

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Relative evaporation rate (butylacetate=1)	: No data available	•
Melting point	: No data available	•
Freezing point	: No data available	•
Boiling point	: No data available	•
Flash point	: No data available	•
Auto-ignition temperature	: No data available	•
Decomposition temperature	: No data available	•
Flammability (solid, gas)	: No data available	•
Vapour pressure	: No data available	•
Relative vapour density at 20 °C	: No data available	•
Relative density	: No data available	•
Density	: 2 - 2.5 g/cm <sup>3</sup>	
Solubility	: Material insoluble	e in water.
Log Pow	: No data available	
Viscosity, kinematic	: No data available	•
Viscosity, dynamic	: No data available	
Explosive properties	: Product is not exp	plosive.
Oxidising properties	: No data available	
Explosive limits	: No data available	•

## 9.2. Other information

No additional information available

## 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

May polymerize.

## 10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition.

## 10.5. Incompatible materials

Oxidizing agent. reducing materials. Organic peroxides. Amines.

#### 10.6. Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: TOXICOLOGICAL INFORMATION			
11.1.	Information on toxicological effects		

Acute toxicity	: Not classified	
2-hydroxyethyl methacrylate (868-77-9)		
LD50 oral rat	5050 mg/kg	
LD50 dermal rabbit	> 3000 mg/kg	
zinc oxide (1314-13-2)		
LD50 oral rat	> 5000 mg/kg	
LD50 oral	> 7950 mg/kg Oral, mouse	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	0.57 mg/l/4h	
Skin corrosion/irritation	: Not classified	
	Repeated exposure may cause skin dryness or cracking	
Serious eye damage/irritation	: Not classified	
	May cause eye irritation	
Respiratory or skin sensitisation	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	
	May cause respiratory irritation	

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Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	
SECTION 12: ECOLOGICAL INFO	RMATION	

12.1. Toxicity	
Ecology - general :	Harmful to aquatic life with long lasting effects.
2-hydroxyethyl methacrylate (868-77-9)	
LC50 fish 1	227 mg/l (96 hours - Pimephales promelas)
zinc oxide (1314-13-2)	
LC50 fish 1	1.1 mg/l 96 h (Onchorhyncus mykiss)
EC50 Daphnia 1	24.6 48 h (Daphnia magna)

## 12.2. Persistence and degradability

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Persistence and degradability	No data available.
2-hydroxyethyl methacrylate (868-77-9)	
Biodegradation	84 % (OECD 301D method)
12.3. Bioaccumulative potential	
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Bioaccumulative potential	No data.
	NO dala.
2-hydroxyethyl methacrylate (868-77-9)	
Bioconcentration factor (BCF REACH)	1,3 - 1,5
Log Pow	0.47
zinc oxide (1314-13-2)	92
Bioconcentration factor (BCF REACH)	92
12.4. Mobility in soil	
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Ecology - soil	Slightly soluble.
12.5. Results of PBT and vPvB assessme	nt
VERTISE FLOW	
This substance/mixture does not meet the PBT	criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvE	3 criteria of REACH regulation, annex XIII
12.6. Other adverse effects	
Other adverse effects	: None to our knowledge.
Additional information	: No other effects known
SECTION 13: DISPOSAL CONSIDER	ATIONS
SECTION 13: DISPOSAL CONSIDER 13.1. Waste treatment methods	ATIONS
	: Dispose as hazardous waste.
13.1. Waste treatment methods	
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IMDG Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (RID)	: Not applicable
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

No data available

- Transport by sea No data available

#### - Air transport

No data available

#### **Rail transport**

No data available

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: REGULATORY INFORMATION

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

### **EU-Regulations**

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

#### National regulations

EC-regulation 453/2010/EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

## SECTION 16: OTHER INFORMATION

## Indication of changes:

Regulatory information. Hazards identification.

2.1	Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	Removed	
2.1	Hazard statements (CLP)	Added	Aquatic Chronic 3, H412
3.2	Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	Removed	

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Data sources		C-regulation 453/2010/EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790 ransport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace expos	
Date of issue	: 0	2/12/2009	
Revision date	: 2	8/08/2015	
Supersedes	: 3	0/09/2014	
Signature	: A	. Åsebø Murel	
Full text of H- and EUH-statements:			
Acute Tox. 4 (Oral)		Acute toxicity (oral), Category 4	
Aquatic Acute 1		Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1		Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Aquatic Chronic 3		Hazardous to the aquatic environment — Chronic Hazard, Category 3	
Eye Irrit. 2		Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2		Skin corrosion/irritation, Category 2	
Skin Sens. 1		Sensitisation — Skin, category 1	
H302		Harmful if swallowed	
H315		Causes skin irritation	
H317		May cause an allergic skin reaction	
H319		Causes serious eye irritation	
H400		Very toxic to aquatic life	
H410		Very toxic to aquatic life with long lasting effects	
H412		Harmful to aquatic life with long lasting effects	

The information in this safety data sheet is based on information from the manufacturer/supplier, present European and national legislation, and presupposes that the product is used within the specified area of application.