according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

300339

## Herculite XRV Ultra Flow

**30/06/2018** Version: 3.0



# Safety Data Sheet Herculite XRV Ultra Flow

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

## 1.1. Product identifier

Product name

: Herculite XRV Ultra Flow

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

1

## **Relevant identified uses**

Main use category

Use of the substance/mixture

Professional usePreparation intended for dental medical use

Uses advised against No additional information available

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

Supplier KERRHAWE S.A. Via Strecce n°4 6934 Bioggio (Switzerland) T +41916100505

Kerr Corporation 1717 West Collins Avenue 92867 Orange – CALIFORNIA (U.S.A.) T +41916100505

Manufacturer

Contact person : safety@kerrhawe.com - tel. +41916100505 (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
Gibraltar	GHA Call Centre Zone 2, Level3, St Bernard's Hospital	Harbour Views Road	+350 200 79700 +350 200 72266
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504
United Kingdom	National Poisons Information Service (Newcastle Unit)	Claremont Place Newcastle-upon-Tyne, Newcastle	+44 191 2606182/+44 191 2606180 24H

## **SECTION 2: HAZARDS IDENTIFICATION**

2.1. Classification of the substance or mixture

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

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H335

Full text of H statements : see section 16

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2.2. Label elements		
Labelling according to Regulation (EC	C) No. 1272/2008 [CLP]	
Hazard pictograms (CLP)	GHS07	
Signal word (CLP)	: Warning	
Hazardous ingredients	<ul> <li>ethoxylated Bisphenol A-dimethacrylate; 2,2'-ethylenedioxydiethyl dim Methacryloxypropyltrimethoxysilane; Ytterbium trifluorid</li> </ul>	ethacrylate; 3-
Hazard statements (CLP)	<ul> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H335 - May cause respiratory irritation.</li> </ul>	
Precautionary statements (CLP)	<ul> <li>P261 - Avoid breathing vapours, mist, spray.</li> <li>P264 - Wash hands thoroughly after handling.</li> <li>P280 - Wear eye protection, protective gloves.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of water/</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice/attent</li> <li>P304+P340 - IF INHALED: Remove person to fresh air and keep comt</li> <li>P312 - Call a POISON CENTER/doctor if you feel unwell.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for sever</li> <li>contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly cl</li> <li>P501 - Dispose of contents/container to an approved waste disposal p</li> </ul>	ortable for breathing. al minutes. Remove osed.
Extra phrases	<ul> <li>The product is seen as a medical device and therefore not subject to la regulation 1272/2008, article 1, paragraph 5d).</li> <li>A safety data sheet is not required for this product under Article 31 of I Safety Information Sheet has been created on a voluntary basis</li> </ul>	0.

#### 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. Substances

Not applicable

#### Mixtures 3.2.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,2'-ethylenedioxydiethyl dimethacrylate	(CAS-No.) 109-16-0 (EC-No.) 203-652-6 (REACH-no) 01-2119969287-21	< 50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
3-Methacryloxypropyltrimethoxysilane	(CAS-No.) 2530-85-0 (EC-No.) 219-785-8 (REACH-no) 01-2119513216-50	< 50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1- propanediyl)] bismethacrylate	(CAS-No.) 1565-94-2 (EC-No.) 216-367-7 (REACH-no) N/A	< 50	Skin Irrit. 2, H315 Eye Irrit. 2, H319
silicon dioxide substance with national workplace exposure limit(s) (GB, IE)	(CAS-No.) 7631-86-9 (EC-No.) 231-545-4 (REACH-no) 01-2119379499-16	< 50	Not classified
Ytterbium trifluorid	(CAS-No.) 13760-80-0 (EC-No.) 237-354-2 (REACH-no) N/A	< 50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
ethoxylated Bisphenol A-dimethacrylate	(CAS-No.) 41637-38-1 (EC-No.) 609-946-4 (REACH-no) 01-2119980659-17	< 25	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335

Full text of H-statements: see section 16

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	Herculle XRV Oltra Flow	30/06/2016
SECTION 4: FIRST AID MEASURES		
4.1. Description of first aid measures	N	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek i advice (show the label where possible).	medical
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	
First-aid measures after skin contact	: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.	
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if presen to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	it and easy
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you fee	il unwell.
4.2. Most important symptoms and effect	ts, both acute and delayed	
Symptoms/effects after inhalation	: May cause respiratory irritation.	
Symptoms/effects after skin contact	: Causes skin irritation. May cause an allergic skin reaction.	
Symptoms/effects after eye contact	: Causes serious eye irritation.	
4.3. Indication of any immediate medical	attention and special treatment needed	
Treat symptomatically. In all cases of doubt, or w	hen symptoms persist, seek medical attention.	
SECTION 5: FIREFIGHTING MEASUR	RES	
5.1. Extinguishing media		
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carl	bon
	dioxide. Water spray. Sand.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Special hazards arising from the sul	ostance 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. Exercise caution when fight chemical fire. Prevent fire fighting water from entering the environment.	nting any
Protection during firefighting	<ul> <li>Do not enter fire area without proper personal protective equipment, including response protection.</li> </ul>	piratory
SECTION 6: ACCIDENTAL RELEASE	MEASURES	
6.1. Personal precautions, protective equ		
	: Avoid all eye and skin contact and do not breathe vapour and mist.	
For non-emergency personnel		
Protective equipment	: See Heading 8.	
Emergency procedures	: Evacuate unnecessary personnel.	
For emergency responders		
Protective equipment	: Equip cleanup and emergency crew with proper protection.	
Emergency procedures	: Ventilate area.	
6.2. Environmental precautions		
Avoid release to the environment. Notify authoriti		
6.3. Methods and material for containme		
For containment	: Collect all waste in suitable and labelled containers and dispose according to loca legislation.	
Methods for cleaning up	: Large spills: scoop solid spill into closing containers. Soak up spills with inert solid clay or diatomaceous earth as soon as possible. Store away from other materials.	
6.4. Reference to other sections		
For further information refer to section 13. See H	eading 8. Exposure controls and personal protection.	
SECTION 7: HANDLING AND STORA	GE	
7.1. Precautions for safe handling		
Precautions for safe handling	: Do not eat, drink or smoke when using this product. Provide good ventilation in prarea to prevent formation of vapour. Avoid breathing vapours, mist. Use only outd a well-ventilated area. Avoid contact with skin and eyes.	

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Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands thorough Contaminated work clothing should not be allowed out of the workplace. We contaminated clothing before reuse.	
7.2. Conditions for safe stor	age, including any incompatibilities	
Storage conditions	: Keep container tightly closed. Store in a dry place.	
Incompatible products	: Oxidizing agent.	
Incompatible materials	: Sources of ignition. Direct sunlight.	
Storage temperature	: 2-8 °C	
Storage area	: Store in a well-ventilated place.	

## 7.3. Specific end use(s)

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Control parameters

silicon dioxide (7631-86-9)		
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	2.4 mg/m <sup>3</sup>
United Kingdom	Local name	Silica, amorphous : respirable dust
United Kingdom	WEL TWA (mg/m³)	2.4 mg/m <sup>3</sup>

## 8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.
Personal protective equipment	<ul> <li>Avoid all unnecessary exposure. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.</li> </ul>
Hand protection	: Wear protective gloves. Nitrile rubber gloves. Layer thickness : 0,11 mm. Breakthrough time : 6 (> 480 minutes). STANDARD EN 374.
Eye protection	: Use splash goggles when eye contact due to splashing is possible. STANDARD EN 166.
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation
Other information	: Do not eat, drink or smoke during use.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid	
Appearance : Paste.	
Colour : Various.	
Odour : Fruity. Ester.	
Odour threshold : Not determined.	
pH : Not determined.	
Relative evaporation rate (butylacetate=1) : Not determined.	
Melting point : Not determined.	
Freezing point : Not determined.	
Boiling point : Not determined.	
Flash point : Not determined.	
Auto-ignition temperature : Not determined.	
Decomposition temperature : Not determined.	
Flammability (solid, gas) : Non flammable.	
Vapour pressure : Not determined.	
Relative vapour density at 20 °C : Not determined.	
Relative density : Not determined.	
Solubility : Material insoluble in water.	
Log Pow : Not determined.	
Viscosity, kinematic : Not determined.	
Viscosity, dynamic : Not determined.	
Explosive properties : Product is not explosive.	

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Oxidising properties Explosive limits

# : Non flammable.

9.2. Other information

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

## 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

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

## 10.5. Incompatible materials

Oxidizing agent. Bases. alkalis.

## 10.6. Hazardous decomposition products

No decomposition if stored and used normally.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1. Information on toxicological effects

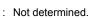
Acute toxicity	:	Not classified
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2,2'-ethylenedioxydiethyl dimethacry	/late (109-16-0)
LD50 oral rat	10837 mg/kg
3-Methacryloxypropyltrimethoxysila	ne (2530-85-0)
LD50 oral rat	> 30000 mg/kg
LD50 dermal rabbit	> 15000 mg/kg
silicon dioxide (7631-86-9)	
LD50 oral rat	> 15000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
	pH: Not determined.
Serious eye damage/irritation	: Causes serious eye irritation.
	pH: Not determined.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
	Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
-	Based on available data, the classification criteria are not met

# SECTION 12: ECOLOGICAL INFORMATION 12.1. Toxicity Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. silicon dioxide (7631-86-9) LC50 fish 1 5000 mg/l (96 hours - Brachydanio rerio, zebra-fish) EC50 Daphnia 1 7600 mg/l (48 hours - Ceriodaphnia dubia) IC50 algae 440 mg/l (IC50, 72 hours - Selenastrum capricornutum)

🖧 SafeUse

SafeUse AS - EN (English)



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2.2.	Persistence and degradability	
Herc	ulite XRV Ultra Flow	
Persi	stence and degradability	Not established.
2.3.	Bioaccumulative potential	
-	ulite XRV Ultra Flow	
Log F	Pow	Not determined.
Bioad	ccumulative potential	Not established.
2,2'-e	ethylenedioxydiethyl dimethacrylate (10	9-16-0)
Bioco	oncentration factor (BCF REACH)	5.62
Log F	Pow	1.88
3-Me	thacryloxypropyltrimethoxysilane (2530	)-85-0)
Log F		0.75
(1-me	ethylethylidene)bis[4,1-phenyleneoxy(2	-hydroxy-3,1-propanediyl)] bismethacrylate (1565-94-2)
Bioco	oncentration factor (BCF REACH)	2.46
Log F	Pow	4.94
2.4.	Mobility in soil	
Herc	ulite XRV Ultra Flow	
Ecolo	ogy - soil	Slightly soluble.
2.5.	Results of PBT and vPvB assessme	nt
Herc	ulite XRV Ultra Flow	
This s	substance/mixture does not meet the PBT	criteria of REACH regulation, annex XIII
This s	substance/mixture does not meet the vPvE	3 criteria of REACH regulation, annex XIII
2.6.	Other adverse effects	
	nal information	: Avoid release to the environment.
SECI	TION 13: DISPOSAL CONSIDER	ATIONS
3.1.	Waste treatment methods	
Region	al legislation (waste)	: Dispose as hazardous waste.
Vaste	treatment methods	: Do not discharge into drains.
roduc	t/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to a hazardous or special waste collection point.
colog	y - waste materials	: Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

14.1.	UN number				
Not regulated for transport					
14.2.	UN proper shipping name				
14.3.	Transport hazard class(es)				
14.4.	Packing group				
14.5.	Environmental hazards				
No supplementary information available					

#### 14.6. Special precautions for user

#### 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

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Herculite XRV Ultra Flow

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 2015/830 /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

## SECTION 16: OTHER INFORMATION

ndication of changes:					
2.2	Precautionary statements (CLP)	Modified			
3	Composition/informatio n on ingredients	Modified			
8.2	Hand protection	Modified			
Data sources : EC-regulation 2015/830 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2 Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure					
Other information	: None.				
Date of issue	: 13/06/2014				
Revision date	: 30/06/2018				
Supersedes : 10/06/2015					
Version	: 3.0				
Signature	gnature : A. Åsebø Murel				
Full text of H- and EUH-statements					
Acute Tox. 4 (Oral)	Acute toxicity	Acute toxicity (oral), Category 4			
Eye Irrit. 2	Serious eye da	Serious eye damage/eye irritation, Category 2			
Skin Irrit. 2	Skin corrosion	Skin corrosion/irritation, Category 2			
Skin Sens. 1	Skin sensitisat	Skin sensitisation, Category 1			
STOT SE 3	Specific target	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation			
H302	Harmful if swa	Harmful if swallowed.			
H315	Causes skin ir	Causes skin irritation.			
H317	May cause an	May cause an allergic skin reaction.			
H319	Causes seriou	Causes serious eye irritation.			

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.

May cause respiratory irritation.

H335