Product
 VIRUCOL+ Virucidal Bactericidal Hard Surface Cleaner Disinfectant

 Revision date
 16 June 2017

 Revision
 1

# Safety Data Sheet (SDS)

Section 1: Identification of the substa	nce/preparation and of the company/undertaking
<b>1.1 Product identifier</b>	
Product name	VIRUCOL+ Virucidal Bactericidal Hard Surface Cleaner Disinfectant
Product no.	VIR1515L (concentrate) VIR15L(ready to use) VIR6750 (ready to use)
Synonyms, Trade names	No information available.
1.2 Relevant identified uses of the sub	ostance or mixture and uses advised against
Identified uses	Cleaning agent.
Uses advised against	Any other purpose.
<b>1.3 Details of the supplier of the safet</b>	<u>y data sheet</u>
Supplier	o3 group ltd
	forsyth house
	cromac square
	belfast bt2 8la
Contact person	btz 8ia mail@o3group.uk
Contact person	man@osgroup.uk
1.4 Emergency telephone number	028 9065 6552
Emergency telephone	Emergency Telephone Number: 028 9065 6552 08:30 – 17:00 Monday to Thursday 08:30 – 16:30 Friday

### Section 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification (EC 1272/2008)	
Physical and chemical hazards	Not classified
Human health	Skin Corr. 1C - H314, Eye Dam. 1 - H318
Environment	Not classified

#### 2.2 Label elements

#### Contains

**Detergent labeling** 

disodium metasilicate Alcohols, C12-15, ethoxylated Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides sodium hydroxide caustic soda <5% anionic surfactants

Label in accordance with (EC) no. 1272/2008



Signal word

**Hazard statements** 

**Precautionary statements** 

H314 Causes severe skin burns and eye damage.

Prevention

Danger

P260 Do not breathe dust/fume/ gas/mist/vapours/spray.P280 Wear protective gloves/ protective clothing/eye protection/face protection.

## Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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 or doctor/physician.

### 2.3 Other hazards

None known.

## Section 3: Composition/identification of ingredients

#### 3.1 Substance

Not applicable.

### 3.2 Mixtures Details below are for concentrated solution. VIRUCOL+ ready to use is diluted at a rate of 15:1 from these figures

Name	Product identifier	Reg. EU 1272/2008	%
Idicodium motocilicato	CAS-No.: 6834-92-0 EC No.: 229-912-9	Skin Corr. 1B - H314, STOT SE 3 - H335	1-10%
Alcohols, C12-15, ethoxylated	EC No.: 500-195-7	Eye Dam. 1 - H318, Aquatic Acute 1 - H400, Aquatic Chronic 3 - H412	1-10%
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	CAS-No.: 68424-85-1 EC No.: 270-325-2	Acute Tox 3 - H301, Acute Tox 3 - H311, Skin Corr. 1C - H314, Eye Dam. 1 - H318, Aquatic Acute 1 - H400	0.1-0.9%
leadium hydrovido cauetic eada	CAS-No.: 1310-73-2 EC No.: 215-185-5	Skin Corr. 1A - H314	0.01-0.09%

The full text for all hazard statements are displayed in section 16.

**Composition comments** 

The data shown are in accordance with the latest EC Directives.

## Section 4: First aid measures

#### **4.1 Description of first aid measures**

General information	Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
Ingestion	If this product is ingested, remove victim immediately from source of exposure. Rinse mouth thoroughly. Do not induce vomiting. Provide fresh air, warmth and rest. Get medical attention. Never give anything by mouth to an unconscious person.
Skin contact	Remove victim immediately from source of exposure. Remove contaminated clothing, shoes and jewelry and wash before reuse. Wash the skin immediately with water. Obtain medical attention if irritation persists or if blistering occurs.
Eye contact	Do not rub eye. If this product contacts the eyes, gently flush eyes with water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if present and easy to do so. Avoid contaminating unaffected eye. Seek medical attention.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Inhalation of mist or vapor may cause respiratory tract irritation.
Ingestion	May cause chemical burns in mouth and throat. May cause severe internal injury.
Skin contact	Corrosive. Cause severe skin burns.
Eye contact	Corrosive to eyes. Causes severe eye damage.

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

Notes to the physician	Treat symptomatically.
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# Section 5: Fire-fighting measures

5.1 Extinguishing media	

Extinguishing mediaUse fire-extinguishing media appropriate for surrounding materials.Unsuitable extinguishing mediaNone noted.

## 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products Unusual fire & explosion hazards Specific hazards	<ul><li>When heated, toxic and corrosive vapours/gases may be formed. During fire, toxic gases (CO, CO2) are formed.</li><li>No unusual fire or explosion hazards noted.</li><li>Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2). Water used for fire extinguishing, which has been in contact with the product, may be corrosive. Do not allow run-off from fire fighting to enter drains or water courses.</li></ul>
5.3 Advice for firefighters	
Special fire fighting procedures	If possible, fight fire from protected position. Avoid breathing fire vapours. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water if safe to do so.
Protective equipment for firefighter	<b>s</b> Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

#### **Section 6: Accidental release measures**

#### **<u>6.1 Personal precautions, protective equipment and emergency procedures</u>**

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Eliminate all sources of ignition. Avoid inhalation of vapours and
For emergency responders	contact with skin and eyes. In case of inadequate ventilation, use respiratory protection. Do not touch or walk through spilled material. If necessary evacuate surrounding areas. Follow safe handling advice and personal protective equipment recommendations for normal use of product.
6.2 Environmental precautions	
Environmental precautions	Do not discharge onto the ground or into water courses. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Protection Agency or local authority.
6.3 Methods and material for containm	ent and cleaning up
Spill clean up methods	Stop leak if possible without risk DO NOT touch spilled material! Ventilate and evacuate the area. When dealing with a spillage, wear necessary protective equipment. Cover drains. Absorb spillage with non-combustible, inert absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Wash thoroughly after dealing with a spillage.
6.4 Reference to other sections	
Reference to other sections	See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.
Section 7: Handling and storage	
7.1 Precautions for safe handling	
Handling	Read and follow manufacturer's recommendations. Use proper personal protection when

Read and follow manufacturer's recommendations. Use proper personal protection when handling (refer to Section 8). Do not handle broken packages without protective equipment. Do not use contact lenses. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Do not

eat, drink or smoke when using the product. Wash thoroughly after handling.

## 7.2 Conditions for safe storage, including any incompatibilities

Storage precautions Storage class	Keep upright, locked up and out of reach of children. Keep the product in its original container. Store in cool dry areas away from direct sunlight or sources of ignition. Corrosive storage.
7.3 Specific end use(s)	
Specific end use(s) Usage description	The identified uses for this product are detailed in Section 1.2. Use only according to directions. Replace and tighten cap after use.

## Section 8: Exposure controls/Personal protection

## **8.1 Control parameters**

Component	STD	TWA (8 Hrs)	STEL (15mins)	) Notes
sodium hydroxide caustic soda	WEL		2 mg	r/m <sup>3</sup>
sodium hydroxide caustic soda	OEL		2 mg	r/m <sup>3</sup>

#### **Ingredient comments**

OEL - Occulational Exposure Limit - Ireland, Occupational Exposure Limits 2016. WEL - Workplace Exposure Limits - EH40/2005 Workplace exposure limits.

### **8.2 Exposure Controls**



Engineering measures	Provide adequate ventilation, including appropriate local extraction, to ensure that the
Respiratory equipment	defined occupational exposure limit is not exceeded. If ventilation is inadequate, suitable respiratory protection must be worn. EN 136/140/145/143/149. The specific respirator selected must be based on contamination levels found in the work place. Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143 should be used, and suitable respirator cartridges as a backup to engineering controls. Consult manufacturer for specific advice. Recommended: Respirator with combination filter for organic vapour/particulate (EN 141).
Hand protection	Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. (EU Directive 89/686/EEC). Gloves must be inspected prior to use. Suggested material: Butyl-rubber. Layer thickness: 0.11mm. Breakthrough time: >480 min. Consult manufacturer for advice. Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Eye protection	Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).
Other protection	Wear appropriate clothing to prevent skin contact. The selected clothing must satisfy the European norm standard EN 943. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handing this product.
Hygiene measures	Observe normal hygiene standards. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke. Wash hands after use.
Process conditions	Ensure that eye flushing systems and safety showers are located close by in the work place.

## **Section 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Appearance

Liquid.

	Colour Odour	Clear. Colourless. None.		
	Odour threshold - lower	No information available.		
	Odour threshold - upper	No information available.		
	pH-Value, Conc. Solution	>14.		
	pH-Value, Diluted solution	No information available.		
	Melting point	No information available.		
	Initial boiling point and boiling range	No information available.		
	Flash point	No information available.		
	Evaporation rate	No information available.		
	Flammability state	No information available.		
	Flammability limit - lower(%)	No information available.		
	Flammability limit - upper(%)	No information available.		
	Vapour pressure	No information available.		
	Vapour density (air=1)	No information available.		
	Relative density	1.030g/cm <sup>3</sup> @ 20.00 °C		
	Bulk density	No information available.		
	Solubility	Soluble in water.		
	Decomposition temperature	No information available.		
	Partition coefficient; n- Octanol/Water	No information available.		
	Auto ignition temperature (°C)	No information available.		
	Viscosity	No information available.		
	Explosive properties	Not classified as explosive.		
	Oxidising properties	No information available.		
<u>9.2</u>	Other information			
	Molecular weight	No information available.		
	Volatile organic compound	No information available.		
	Other information	None noted.		

Section 10: Stability and reactivity				
10.1 Reactivity				
Reactivity	Reaction with: Strong oxidising agents. Reaction with strong acid.			
10.2 Chemical stability				
Stability	Stable under normal temperature conditions and recommended use.			

**10.3 Possibility of hazardous reactions** 

	Revision Date: 16 June 2017 - Revision: 1	
Hazardous reactions Hazardous polymerisation Polymerisation description	Avoid contact with acids and oxidising substances. Will not polymerise. Not applicable.	
10.4 Conditions to Avoid		
Conditions to avoid	Heat, sparks, open flames, temperature extremes and direct sunlight.	
10.5 Incompatible materials		
Materials to avoid	Avoid oxidising agents. Strong acids. Do not mix with other chemicals unless listed on directions.	
10.6 Hazardous decomposition products	3	
Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.	
Section 11: Toxicological information		
11.1 Information on toxicological effect	S	
Toxicological information	No toxicological information for the overall finished product.	
Acute toxicity (Oral LD50)	Alcohols, C12 -15, ethoxylated (CAS: 68131-39-5) > 5000 mg/kg Rat. REACH dossier information. SODIUM HYDROXIDE (CAS: 1310-73-2): 325 mg/kg bw Rabbit. REACH dossier	
Acute toxicity (Dermal LD50)	information. Alcohols, C12 -15, ethoxylated (CAS: 68131-39-5) > 2000 mg/kg Rat. REACH dossier information. SODIUM HYDROXIDE (CAS: 1310-73-2): 325 mg/kg bw Rabbit. REACH dossier	
Acute toxicity (Inhalation LD50)	information. Alcohols, C12 -15, ethoxylated (CAS: 68131-39-5) > 1.6 mg/l (dust/mist) Rat 4 hours. REACH dossier.	
Serious eye damage/irritation	Causes severe eye damage.	
Skin corrosion/irritation	The product is classified as a skin corrosion/irritation hazard.	
Respiratory sensitisation Skin sensitisation	The product is not classified as a respiratory hazard. The product is not classified as a skin sensitisation hazard	
Germ cell mutagenicity	No information available.	
Carcinogenicity	The product is not classified as a carcinogen hazard	
STOT - Single exposure	Specific target organ toxicity - Repeated exposure:	
Inhalation Ingestion Skin contact Eye contact Waste management	Inhalation of mist or vapor may cause respiratory tract irritation. May cause chemical burns in mouth and throat. May cause severe internal injury. Corrosive. Cause severe skin burns. Corrosive to eyes. Causes severe eye damage. When handling waste, consideration should be made to the safety precautions applying to handling of the product.	
Routes of entry Target organs	No information available. Eyes, skin, digestive system, respiratory system.	
Aspiration hazards: Reproductive toxicity:	No information available. The product is not classified as a reprodutive hazard.	

Name	LD50 oral	LD50 dermal	LD50 inhalation
disodium metasilicate	600.00mg/kg Rat		
Alcohols, C12-15, ethoxylated	>5000.00mg/kg Rat		

Section 12: Ecological information		
12.1 Toxicity		
Acute toxicity - Fish	Alcohols, C12 -15, ethoxylated (CAS: 68131-39-5): LC50 96 hours 0.59 mg/l Pleuronectes platessa. REACH dossier information. DISODIUM METASILICATE (CAS: 6834-92-0): LC50 96 hours 210 mg/l Brachydanio rerio (Zebra Fish). REACH dossier information. SODIUM HYDROXIDE (CAS: 1310-73-2): LC50 96 hours 45.4 mg/l Oncorhynchus mykiss (Rainbow trout)	
trout). Acute toxicity - Aquatic invertebrates Alcohols, C12 -15, ethoxylated (CAS: 68131-39-5): EC50 48 hours 0.14 mg/l Daphnia		
Acute toxicity - Aquatic plants	REACH dossier information. DISODIUM METASILICATE (CAS: 6834-92-0): EC50 48 hours 7.8 pH Daphnia magna. REACH dossier information. SODIUM HYDROXIDE(CAS: 1310-73-2): EC50 48 hours 40.4 ug/L Ceriodaphnia sp. REACH dossier information. Alcohols, C12 -15, ethoxylated (CAS: 68131-39-5): EC50 72 hours 0.75 mg/l Selenastrum capricornutum REACH dossier information. DISODIUM METASILICATE (CAS: 6834-92-0):	
Acute toxicity - Microorganisms	EC50 72 hours 207 mg/l Desmodesmus subspicatus. REACH dossier information. No information available.	
Chronic toxicity - Fish Chronic toxicity - Aquatic	No information available. No information available.	
invertebrates		
Chronic toxicity - Aquatic plants	No information available.	
Chronic toxicity - Microorganisms Ecotoxicity	No information available.	
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic	
Eco toxilogical information	organisms. No ecological toxicity available on the overall finished product.	
12.2 Persistence and degradability		
Degradability Biological oxygen demand Chemical oxygen demand	The degradability of the product has not been stated. No information available. No information available.	
12.3 Bioaccumulative potential		
Bioaccumulative potential Bioacculmation factor Partition coefficient; n- Octanol/Water	No data available on bioaccumulation. No information available. No information available.	
<b>12.4 Mobility in soil</b>		
Mobility	Soluble in water.	
12.5 Results of PBT and vPvB assessme	<u>nt</u>	
Results of PBT and vPvB assessmen	${\bf t}$ This product is not identified as a PBT/vPvB substance.	
12.6 Other adverse effects		
Other adverse effects	None known.	

Name	LACHTE TOXICITY (FISD)	5 · 1	Acute toxicity (Aquatic plants)
	LC50 96 Hours >2.00ppm Brachydanio rerio (Zebra Fish)		

Section 13: Disposal considerations	
Waste management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.

# **13.1 Waste treatment methods**

Disposal methods

Dispose of waste and residues in accordance with local authority requirements. For waste

Section 14: Transport information	
14.1 UN number	
UN no. (ADR) UN no. (IMDG) UN no. (IATA)	UN1760 UN1760 UN1760
14.2 UN proper shipping name	
ADR proper shipping name IMDG proper shipping name	CORROSIVE LIQUID, N.O.S. (disodium metasilicate + Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides) CORROSIVE LIQUID, N.O.S. (disodium metasilicate + Quaternary ammonium compounds,
IATA proper shipping name	<ul> <li>benzyl-C12-16-alkyldimethyl, chlorides)</li> <li>CORROSIVE LIQUID N.O.S. (disodium metasilicate + Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)</li> </ul>
4.3 Transport hazard class(es)	
ADR class IMDG class IATA class	8 8 8
Transport labels	8
4.4 Packing group	·
ADR/RID/ADN packing group IMDG packing group IATA packing group	III III III
4.5 Environmental hazards	
ADR IMDG IATA	No No No
14.6 Special precautions for user	
EMS Emergency action code Hazard no. (ADR) Tunnel restriction code	F-A, S-B A3 80 (E)

# $\underline{14.7}$ Transport in bulk according to annex II of MARPOL73/78 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 legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006.
Approved code of practice	Workplace Exposure Limits Guidance Note EH40/2005.
	2016 Code of Practice for the Chemical Agents Regulations in accordance with section 60 of the Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005).

No chemical safety assessment has been carried out.

## Section 16: Other information

General information	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.
<b>Revision comments</b>	This is a first issue.
Revision date	16 June 2017
Revision	1
Safety data sheet status	Approved.
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## Hazard statements in full

H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.

#### Disclaimer

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.