Product	BACTI VIR
Revision date	24 March 2020
Revision	2

Safety Data Sheet (SDS)

Section 1: Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Product name	**BACTI VIR**
Product no.	**109**

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

Identified uses	Surface cleaner/disinfectant. Spray and rinse manual process. Professional Use.
Uses advised against	Uses not identified above are not recommended.

1.3 Details of the supplier of the safety data sheet

Supplier	Kitchenmaster NI Ltd 11 Comber Road Belfast BT8 8AN United Kingdom Tel: 028 90814777
Contact person	sales@kitchenmaster-ni.com

1.4 Emergency telephone number

Emergency telephone	Emergency Telephone Number: 028 9081 4777 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 Irrit. 2 - H315, Eye Dam. 1 - H318
Environment	No significant hazard

2.2 Label elements

Contains

Disodium Metasilicate
Benzyl-C12-14-alkyldimethylammonium chlorides

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

Signal word

Danger

Hazard statements

H318 Causes serious eye damage.
H315 Irritating to skin.

Precautionary statements

Prevention
P280 Wear protective gloves and eye/face protection.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water
P332 + P313 If skin irritation occurs: Get medical advice/attention .
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

Name	Product identifier	Reg. EU 1272/20, 08	%
Tetrasodium Ethylenediaminetetraacetate	CAS-No.: 64-02-8 EC No.: 200-573	Acute Tox. 4 - H302, Eye Damage 1 - H318 Acute Tox 4 - H332	1-10%
Disodium Metasilicate	CAS-No.: 6834-92-0 EC No.: 229-912-9	Skin Corr 1B - H314, STOT SE3 – H335	0.1-0.9%
Alcohols, C12-15, ethoxylated	CAS-No.: 68131-39-5 EC No.: 500-195-7	Eye Dam. 1 - H318, Aquatic Acute 1 - H400, Aquatic Chronic 3 - H412	0.1-0.9%
Alkyl (C12-18)- dimethylbenzyl ammonium chhloride	CAS-No.: 68391-01-5 EC No.: 269-919-4	Acute Tox 4 - H302, Skin Corr. 1B - H314, Eye Dam. 1 - H318, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	0.1-0.9%
Alkyl C12-14) – ethylbenzyl ammonium chloride	CAS-No.: 85409-23-0 EC No.: 287-090-7	Acute Tox 4 - H302, Skin Corr. 1B - H314, Eye Dam. 1 - H318, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	0.1-0.9%

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

Composition comments The data shown above relates to components that contribute the product hazard classification.

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. Seek medical attention if symptoms persist. Exposure by inhalation is unlikely in normal use.

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 length of exposure. Burns and irritation are the most likely symptoms when there is exposure to skin, eyes and respiratory system.

Inhalation Inhalation of mist or vapor may cause respiratory tract irritation.

Ingestion May cause stomach pain or vomiting. May cause chemical burns in mouth and throat.

Skin contact May cause burns and irritation to the skin.

Eye contact Extreme irritation of eyes and mucous membranes, including burning and tearing. Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to the physician Treat according to symptoms.

Section 5: Fire-fighting measures

5.1 Extinguishing media

Extinguishing media Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media None known.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products When heated, toxic and corrosive vapours/gases may be formed. During fire, toxic gases (CO, CO2) are formed.
Unusual fire & explosion hazards No unusual fire or explosion hazards noted.
Specific hazards Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2). Do not allow run-off from fire fighting to enter drains or water courses.

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 firefighters 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

6.1 Personal precautions, protective equipment and emergency procedures

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 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.
For emergency responders 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 Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Spill clean-up methods Stop leak if possible without risk. Eliminate all sources of ignition. Ventilate and evacuate the area. DO NOT touch spilled material! When dealing with a spillage, wear necessary protective equipment. 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 Keep containers tightly sealed. Provide good ventilation. Read and follow manufacturer's recommendations. Wear appropriate personal protection when handling (refer to Section 8). Do not handle broken packages without protective equipment. Clean up spillages promptly. Do not eat , drink or smoke in store area.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions 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. Protect from freezing.

7.3 Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.
Usage description 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
(2-methoxymethylethoxy)propanol	OEL	50 ppm	308 mg/m^3			
(2-methoxymethylethoxy)propanol	WEL	50 ppm	308 mg/m^3			

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

8.2 Exposure Controls*

Protective equipment

Engineering measures Not needed in normal use. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment 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. Recommended: Respirator with combination filter for vapour/particulate (EN 141). Consult manufacturer for specific advice.

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. Breakthrough time: >480 minutes. Minimum layer thickness: 0.33 mm. 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 as relevant to the task. 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. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.

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	Purple.
Odour	Characteristic
Odour threshold	Not determined for the mixture.
pH-Value (as supplied)	12 – 14
Melting point	Not determined for the mixture.
Initial boiling point and boiling range	Not determined for the mixture.
Flash point	**>100 deg C.**
Evaporation rate	Not determined for the mixture.
Flammability (Liquid, Vapour)	Not flammable.
Flammability limit -Upper/lower	Not determined
Vapour pressure	Not determined
Vapour density (air=1)	Not determined
Relative density	1.010 -1.020g/cm^3 @ 20.00 °C
Solubility	Fully soluble in water.
Decomposition temperature	Not determined for the mixture.
Partition coefficient n- Octanol/Water	Notdeterminedforthe mixture.
Auto ignition temperature (°C)	Notdeterminedfor themixture.
Viscosity	Not determined for the mixture.
Explosive properties	Not classified as explosive.
Oxidising properties	No components classified as an Oxidiser.

9.2 Other information No further relevant information available

Section 10: Stability and reactivity

10.1 Reactivity Reactions may occur with strong oxidizing materials and strong acids

10.2 Chemical stability Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

Hazardous reactions	Avoid strong oxidizers. Reacts with acids.
Hazardous polymerisation	Will not polymerise.
Polymerisation description	Not applicable.

10.4 Conditions to Avoid

Conditions to avoid	Avoid temperature extremes and direct sunlight.

10.5 Incompatible materials

Materials to avoid	Do not mix with other chemicals unless listed on directions. Avoid strong oxidising agents, bases, strong acids. Avoid contact with Aluminium, Zinc, Lead, Tin and alloys of these metals

10.6 Hazardous decomposition products

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 effects

Toxicological information No toxicological information for the overall finished product as animal testing has not been carried out.

Acute toxicity (Oral LD50) Alcohols, C12 -15, ethoxylated (CAS 68131-39-5): > 5000 mg/kg, Rat. REACH dossier information. BENZALKONIUM CHLORIDE (CAS 68391-01-5): 150 mg/kg, Mouse.

Acute toxicity (Dermal LD50) Alcohols, C12 -15, ethoxylated (CAS 68131-39-5): > 2000 mg/kg, Rat. REACH dossier information. BENZALKONIUM CHLORIDE (CAS 68391-01-5): 1420 mg/kg, Rat.

Acute toxicity (Inhalation LD50) Alcohols, C12 -15, ethoxylated (CAS 68131-39-5): > 1.6 mg/l, (dust/mist) Rat - 4 hours. REACH dossier information.

Serious eye damage/irritation Causes serious eye damage.

Skin corrosion/irritation No information available.

Respiratory sensitisation No information available.

Skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Specific target organ toxicity - Single exposure:

STOT - Single exposure No information available.

Specific target organ toxicity - Repeated exposure:

STOT - Repeated exposure No information available.

Inhalation Inhalation of mist or vapor may cause respiratory tract irritation.

Ingestion May cause stomach pain or vomiting. May cause chemical burns in mouth and throat.

Skin contact May cause irritation and chemical burns tothe skin.

Eye contact Extreme irritation of eyes and mucous membranes, including burning and tearing. Causes serious eye damage.

Waste management When handling waste, consideration should be made to the safety precautions applying to handling of the product.

Routes of entry No information available.

Target organs Eyes, skin, digestive system, respiratory system.

Aspiration hazards: No information available.

Reproductive toxicity: No information available.**Name**	**LD50 oral**	**LD50 dermal**	**LD50 inhalation**
Disodium metasilicate	600.00mg/kg Rat		
Benzyl-C12-14-alkyldimethylammonium chlorides	397.50mg/kg Rat	3412.00mg/kg Rabbit	

Section 12: Ecological information

12.1 Toxicity

Ecological Toxicity data for this mixture is not available as ecological toxicity studies have not been carried out.
Ecological Toxicity data for the raw materials is, where provided by the manufacturer, available on request.

12.2 Persistence and degradability

Any surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC

12.3 Bioaccumulative potential

Bioaccumulative potential Not determined for the mixture

Bioacculmation factor Not determined for the mixture.

Partition coefficient; n-Octanol/Water Not determined for the mixture.

12.4 Mobility in soil

Mobility Not determined for the mixture

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment The product does not contain any PBT or vPvB Substances.

12.6 Other adverse effects

Other adverse effects None known.

Section 13: Disposal considerations

13.1 Waste treatment methods

Waste management When handling waste, consideration should be made to the safety precautions applying to handling of the product.

Disposal methods Dispose of waste and residues in accordance with local authority requirements. For waste disposal, use a licensed industrial waste disposal agent.
EWC Code 20 01 29*

Section 14: Transport information*

14.1 UN number None

14.2 UN proper shipping name Not required

14.3 Transport Hazard Class(es) Not required

Not considered hazardous for transport

14.4 Packing Group Not required
14.5 Environmental hazards None
14.6 Special precautions for user None known
14.7 Transport in bulk Not transported in bulk container

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.

Ingredients according to EC Detergents Regulation 648/2004

<5% Nonionic surfactants
Cationic surfactants
Disinfectants

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).

Chemical safety assessment 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.
Revision comments	Amended hazard classification
Revision date	24 March 2020
Revision	2
Safety data sheet status	Approved.

*Indicates sections where changes have been made in this revision

Hazard statements in full

H302	Harmful if swallowed.
H315	Causes skin irritation
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.
H332	Harmful if inhaled.

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.