According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : VIRKON S TABLETS

Product code : 00000000057804688

UFI : YMM6-H0S8-E002-AT17

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

Use of the Sub- : Disinfectants

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Antec International Limited

Windham Road

CO10 2XD Sudbury / Suffolk

Chilton Industrial Estate, Great Britain

Responsible Department : +49 221 8885 2288

infosds@lanxess.com

1.4 Emergency telephone number

Emergency telephone number : For 24/7 multilingual emergency please call

CHEMTREC EMEA: +44 20 3885 0382 and mention CCN

1001748.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1 H318: Causes serious eye damage.

Long-term (chronic) aquatic hazard, Cat-

egory 3

H412: Harmful to aquatic life with long lasting ef-

fects.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :

Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling. P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/ doctor.

P332 + P313 If skin irritation occurs: Get medical advice/

attention.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Hazardous components which must be listed on the label:

pentapotassium bis(peroxymonosulphate) bis(sulphate) Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts potassium hydrogensulphate dipotassium disulphate

Additional Labelling

EUH208 Contains dipotassium peroxodisulphate. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
pentapotassium bis(peroxymonosulphate) bis(sulphate)	70693-62-8 274-778-7	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 30 - < 50
malic acid	6915-15-7 230-022-8	Eye Irrit. 2; H319	>= 20 - < 30
sulphamidic acid	5329-14-6 226-218-8 016-026-00-0	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	>= 2.5 - < 10
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3 270-115-0	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 3 - < 10
potassium hydrogensulphate	7646-93-7 231-594-1 016-056-00-4	Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)	>= 1 - < 3
dipotassium disulphate	7790-62-7 232-216-8	Acute Tox. 3; H331 Skin Corr. 1A; H314 Eye Dam. 1; H318 EUH071	>=1-<3
tetra[carbonato(2-)]dihydroxypentamagnesium	7760-50-1 231-851-8		>= 1 - < 2.5
dipotassium peroxodisulphate	7727-21-1 231-781-8 016-061-00-1	Ox. Sol. 3; H272 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	>= 0.1 - < 1

Print Date: 06.01.2023

3/28



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

Protection of first-aiders : No action shall be taken involving any personal risk or without

suitable training.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tis-

sue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes skin irritation.

Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing

media

Carbon dioxide (CO2)
High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod: :

ucts

Sulphur oxides Metal oxides

Carbon dioxide (CO2)
Carbon monoxide
Nitrogen oxides (NOx)
Halogenated compounds

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Avoid dust formation. Avoid breathing dust.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Neutralize with chalk, alkali solution or ammonia.

Keep in suitable, closed containers for disposal.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Protect from moisture.

Avoid formation of respirable particles.

Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

Avoid dust formation. Provide appropriate exhaust ventilation

at places where dust is formed.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Protect from moisture. Keep away from: Combustible sub-

stances Strong bases

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological

safety standards.

Advice on common storage : Keep away from alkalis.

Further information on stor-

Keep in a dry place.

age stability

Stable under recommended storage conditions.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

8.2 Exposure controls

Engineering measures

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Material : Butyl rubber - IIR

Wearing time : < 60 min

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Skin and body protection : Wear suitable protective clothing.

Dust impervious protective suit

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

Filter type : Recommended Filter type:

ABEK-P2-filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : tablet

Physical state : solid

Colour : pink

Print Date: 06.01.2023

Odour : odourless

Odour Threshold : No data available

Melting point/range : No data available

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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

Boiling point/boiling range : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point : No data available

Decomposition temperature : No data available

pH : 2.6 - 3.2

Concentration: 10 %

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : 65 g/l

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : No data available

Relative density : No data available

Density : No data available

Particle characteristics

Particle Size Distribution : No data available

9.2 Other information

Explosives : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Method: Regulation (EC) No. 440/2008, Annex, A.17

Flammable solids

Burning number : No data available

Self-ignition : No data available

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

Evaporation rate : No data available

Miscibility with water : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Under normal conditions of storage and use, hazardous reac-

tions will not occur.

Stable under recommended storage conditions.

Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : Exposure to moisture

10.5 Incompatible materials

Materials to avoid : Combustible substances

Strong bases

10.6 Hazardous decomposition products

Hazardous decomposition

products

Chlorine

Sulphur oxides Hypochlorites

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

Print Date: 06.01.2023

Acute oral toxicity : LD50 (Rat, male and female): 4,123 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 3.7 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity





According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

Remarks: the particle size measurements of the product indicate that it is not respirable and therefore not bioavailable by

the inhalation route.

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Remarks: Extrapolation according to Regulation (EC) No.

440/2008

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Acute oral toxicity : LD50 (Rat, male and female): 500 mg/kg

Method: OECD Test Guideline 423

Acute inhalation toxicity : LC0 (Rat, male): > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Highest producible concentration.

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402

Remarks: Extrapolation according to Regulation (EC) No.

440/2008

malic acid:

Acute oral toxicity : LD50 (Rat, male and female): 3,500 mg/kg

Method: OECD Test Guideline 401

GLP: no

Acute inhalation toxicity : LC0 (Rat, male and female): > 1.306 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Remarks: Highest producible concentration.

Acute dermal toxicity : LD50 (Rabbit, female): > 5,000 mg/kg

Method: OECD Test Guideline 401

GLP: no

sulphamidic acid:

Print Date: 06.01.2023

Acute oral toxicity : LD50 (Rat, female): 2,140 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

10/28



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

Assessment: The substance or mixture has no acute dermal

toxicity

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Acute oral toxicity : LD50 (Rat, male and female): 1,080 mg/kg

Method: OECD Test Guideline 401

GLP: no

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Dosage caused no mortality

potassium hydrogensulphate:

Acute oral toxicity : LD50 (Rat): 2,340 mg/kg

dipotassium disulphate:

Acute oral toxicity : LD50 (Rat, male): 2,140 mg/kg

Method: OECD Test Guideline 401

Remarks: Test results on an analogous product

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

Assessment: The component/mixture is toxic after short term

inhalation.

tetra[carbonato(2-)]dihydroxypentamagnesium:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute oral tox-

icitv

Remarks: Test results on an analogous product

dipotassium peroxodisulphate:

Acute oral toxicity : LD50 (Rat): 700 mg/kg

Acute inhalation toxicity : LC0 (Rat): > 2.95 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Remarks: Highest producible concentration.

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Print Date: 06.01.2023

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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

Product:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Irritating to skin.

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Species : Rabbit

Method : OECD Test Guideline 404

Result : Causes burns.

malic acid:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

sulphamidic acid:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Irritating to skin.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Irritating to skin.

GLP : no

potassium hydrogensulphate:

Assessment : Causes burns.

dipotassium disulphate:

Assessment : Causes severe burns.

dipotassium peroxodisulphate:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Irritating to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Print Date: 06.01.2023

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Species : Rabbit

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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

Version Revision Date: SDS Number: Date of last issue: 08.06.2022 2.1 08.12.2022 203000008845 Country / Language: GB / 6N (EN)

Method : OECD Test Guideline 405
Result : Risk of serious damage to eyes.

malic acid:

Species : Rabbit

Method : OECD Test Guideline 405

Result : Irritating to eyes.

sulphamidic acid:

Species : Rabbit

Method : OECD Test Guideline 405

Result : Irritating to eyes.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Species : Rabbit

Method : OECD Test Guideline 405
Result : Irreversible effects on the eye

GLP : yes

dipotassium disulphate:

Assessment : Risk of serious damage to eyes.

dipotassium peroxodisulphate:

Result : Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Exposure routes : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406

Result : Did not cause sensitisation on laboratory animals.

Exposure routes : Inhalation

Species : Mammal - species unspecified

Method : Expert judgement

Result : Does not cause respiratory sensitisation.

Components:

Print Date: 06.01.2023

pentapotassium bis(peroxymonosulphate) bis(sulphate):



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

Exposure routes : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

malic acid:

Exposure routes : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406

Result : Did not cause sensitisation on laboratory animals.

GLP : yes

sulphamidic acid:

Result : Did not cause sensitisation on laboratory animals.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Test Type : Maximisation Test Exposure routes : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406

Result : Did not cause sensitisation on laboratory animals.

GLP : yes

dipotassium peroxodisulphate:

Exposure routes : Inhalation

Species : Mammal - species unspecified

Posult : May cause sensitisation by inh

Result : May cause sensitisation by inhalation.

Exposure routes : Skin contact Species : Mouse

Method : OECD Test Guideline 429

Result : May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Components:

Print Date: 06.01.2023

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Genotoxicity in vitro : Test system: Mammalian-Animal

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: positive GLP: yes

Test system: Bacteria

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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative GLP: yes

Test system: Mammalian-Human

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: positive GLP: yes

Genotoxicity in vivo : Species: Mammalian-Animal

Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

malic acid:

Print Date: 06.01.2023

Genotoxicity in vitro : Remarks: Not mutagenic in a standard battery of genetic toxi-

cological tests.

sulphamidic acid:

Genotoxicity in vitro : Test system: Mammalian-Human

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: negative GLP: yes

Test system: Mammalian-Animal

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test system: Bacteria

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: without metabolic activation

Method: OECD Test Guideline 473

15/28

LANXESS Group

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

Result: negative

GLP: yes

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: with metabolic activation

Method: OECD Test Guideline 473

Result: positive GLP: yes

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: yes

Genotoxicity in vivo : Test Type: Cytogenetic assay

Species: Mouse (male)
Cell type: Bone marrow
Application Route: Oral
Result: negative

GLP: no

Test Type: dominant lethal test

Species: Mouse (male) Application Route: Oral Result: negative

Nesult. Hey

GLP: no

dipotassium peroxodisulphate:

Genotoxicity in vitro : Remarks: Not mutagenic in a standard battery of genetic toxi-

cological tests.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Effects on foetal develop-

ment

Remarks: No teratogenic or foetotoxic effects were found at all

dose levels tested.

malic acid:

Print Date: 06.01.2023

Effects on foetal develop-

ment

Remarks: No known significant effects or critical hazards.

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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Effects on fertility : Test Type: Three-generation study

Species: Rat, male and female

Application Route: Oral

Dose: 0 - 14 - 70 milligram per kilogram

General Toxicity - Parent: NOAEL: 350 mg/kg body weight General Toxicity F1: NOAEL: 350 mg/kg body weight General Toxicity F2: NOAEL: 350 mg/kg body weight

Fertility: NOAEL: 350 mg/kg body weight

Result: Animal testing did not show any effects on fertility.

GLP: no

Remarks: Test results on an analogous product

Effects on foetal develop-

ment

Species: Rat, female Application Route: Oral

General Toxicity Maternal: NOAEL: 300 mg/kg body weight

Teratogenicity: NOAEL: 300 mg/kg body weight

Result: No teratogenic effects

GLP: no

Remarks: Test results on an analogous product

STOT - single exposure

Not classified based on available information.

Components:

potassium hydrogensulphate:

Assessment : May cause respiratory irritation.

dipotassium peroxodisulphate:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Print Date: 06.01.2023

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Species : Rat, male and female LOAEL : > 1,000 mg/kg

Application Route : Oral Exposure time : 28 d

Number of exposures : 7 days/week

Method : OECD Test Guideline 407

Remarks : Subacute toxicity

Species : Rat, male and female

LOAEL : 600 mg/kg

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VIRKON S TABLETS

Version Revision Date: SDS Number: Date of last issue: 08.06.2022 203000008845 2.1 08.12.2022 Country / Language: GB / 6N (EN)

Application Route Oral Exposure time 90 d

Number of exposures 7 days/week

OECD Test Guideline 408 Method Remarks Subchronic toxicity

malic acid:

Remarks No known significant effects or critical hazards.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Species Rat, male and female

NOAEL 85 mg/kg LOAEL 145 mg/kg Application Route Oral Exposure time 36 w Number of exposures daily **GLP** no

Remarks Subchronic toxicity

Aspiration toxicity

Not classified based on available information.

Further information

Product:

No data available Remarks

SECTION 12: Ecological information

12.1 Toxicity

Product:

LC50 (Salmo salar (Atlantic salmon)): 24.6 mg/l Toxicity to fish

Exposure time: 96 h

Method: Regulation (EC) No. 440/2008, Annex, C.1

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 6.5 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Fresh water

Toxicity to algae/aquatic

plants

NOEC (Desmodesmus subspicatus (green algae)): 6.25 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Fresh water

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 53 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 3.5 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Remarks: Fresh water

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (microalgae)): > 1 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.5

mg/I

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

malic acid:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 240 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Remarks: Fresh water

Toxicity to algae/aquatic

plants

Print Date: 06.01.2023

EC50 (algae): > 100 mg/l Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

NOEC (algae): 100 mg/l Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

19/28

LANXESS Group

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

Remarks: Fresh water

sulphamidic acid:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 70.3 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: no

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 71.6 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Remarks: Fresh water

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 48 mg/l

End point: Growth rate Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

NOEC (Desmodesmus subspicatus (green algae)): 18 mg/l

End point: Growth rate Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

Toxicity to microorganisms : EC50 : > 200 mg/l

End point: Respiration inhibition

Exposure time: 3 h

Method: OECD Test Guideline 209

GLP: yes

Remarks: Fresh water

Toxicity to fish (Chronic tox-

icity)

NOEC: >= 60 mg/l

Exposure time: 34 d

Species: Danio rerio (zebra fish) Method: OECD Test Guideline 210

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

Print Date: 06.01.2023

NOEC: 19 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2.88 mg/l

Exposure time: 96 h Analytical monitoring: yes

20 / 28

LANXESS Group

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

Method: OECD Test Guideline 203

GLP: no

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.9 mg/l

Exposure time: 48 h Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Remarks: Fresh water

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 235

mg/l

Exposure time: 72 h Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: no

Remarks: Fresh water

EC10 (Pseudokirchneriella subcapitata (green algae)): 13.1

mg/l

Exposure time: 72 h Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: no

Remarks: Fresh water

Toxicity to fish (Chronic tox-

icity)

NOEC: 0.23 mg/l

Exposure time: 72 d

Species: Oncorhynchus mykiss (rainbow trout)

Analytical monitoring: yes

Method: OECD Test Guideline 210

GLP: no

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC: 1.18 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Analytical monitoring: yes

Method: OECD Test Guideline 211

GLP: no

Remarks: Fresh water

dipotassium disulphate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 680 mg/l

Exposure time: 96 h Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

Print Date: 06.01.2023

EC50 (Daphnia magna (Water flea)): 720 mg/l

Exposure time: 48 h Remarks: Fresh water

21 / 28



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (microalgae)): 1,492

mg/l

Exposure time: 96 h Remarks: Fresh water

EC10 (Pseudokirchneriella subcapitata (microalgae)): 656

mg/l

Exposure time: 96 h Remarks: Fresh water

Toxicity to fish (Chronic tox-

icity)

NOEC: > 595 mg/l

Exposure time: 7 Days

Species: Pimephales promelas (fathead minnow)

Remarks: Fresh water

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 790 mg/l Exposure time: 7 Days

Species: Ceriodaphnia dubia (Water flea)

Remarks: Fresh water

tetra[carbonato(2-)]dihydroxypentamagnesium:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2.12 mg/l

Exposure time: 96 h Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 140 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 201

Remarks: Fresh water

Toxicity to algae/aquatic

plants

Print Date: 06.01.2023

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Fresh water

NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Fresh water

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

dipotassium peroxodisulphate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 76.3 mg/l

Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 120 mg/l

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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (microalgae)): 83.7

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

12.2 Persistence and degradability

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Biodegradability : Result: The methods for determining the biological degradabil-

ity are not applicable to inorganic substances.

malic acid:

Biodegradability : Test Type: aerobic

Result: Readily biodegradable. Biodegradation: 67.5 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

sulphamidic acid:

Biodegradability : Result: The methods for determining the biological degradabil-

ity are not applicable to inorganic substances.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 83 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

dipotassium disulphate:

Biodegradability : Result: The methods for determining the biological degradabil-

ity are not applicable to inorganic substances.

tetra[carbonato(2-)]dihydroxypentamagnesium:

Biodegradability : Result: The methods for determining the biological degradabil-

23 / 28

ity are not applicable to inorganic substances.

dipotassium peroxodisulphate:

Print Date: 06.01.2023

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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

Biodegradability : Result: The methods for determining the biological degradabil-

ity are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Partition coefficient: n- : log Pow: < 0.3

octanol/water Method: OECD Test Guideline 117

malic acid:

Partition coefficient: n-

octanol/water

log Pow: -1.26

sulphamidic acid:

Partition coefficient: n-

octanol/water

: log Pow: -4.34

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Partition coefficient: n- : log Pow: 1.4 (23 °C)

octanol/water Method: OECD Test Guideline 123

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Other adverse effects

Product:

Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

24 / 28



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Hazard and Handling Notes. : Not dangerous cargo.

Keep dry.

Risk of serious damage to eyes.

Keep away from foodstuffs, acids and alkalis.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

Print Date: 06.01.2023

: Not applicable

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors

Not applicable



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH),

Article 57).

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

: Not applicable

Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and

third countries in drug precursors.

Neither banned nor restricted

UK REACH List of substances subject to authorisation

(Annex XIV)

: Not applicable

GB Export and import of hazardous chemicals - Prior

Informed Consent (PIC) Regulation

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H272 : May intensify fire; oxidizer. H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

H331 : Toxic if inhaled.

H334 : May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

H335 : May cause respiratory irritation.

H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Print Date: 06.01.2023

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation

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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

Ox. Sol. : Oxidizing solids

Resp. Sens. : Respiratory sensitisation

Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Classification of the mixture:

Print Date: 06.01.2023

Classification procedure:

Skin Irrit. 2 H315 Based on product data or assessment

Eye Dam. 1 H318 Calculation method

Aquatic Chronic 3 H412 Calculation method

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal

LANXESS Group

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



VIRKON S TABLETS

Print Date: 06.01.2023

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08.06.2022

 2.1
 08.12.2022
 203000008845
 Country / Language: GB / 6N (EN)

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