

KIT

1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: IGF-II RIA

Catalog #: KIPMR30

Kit Components: Acidification Buffer
Dilution Buffer
Assay Buffer
1st Antibody
2nd Antibody
Tracer
NSB
Calibrators
Controls
Precipitation Reagent

1.2 Intended Use

For In Vitro Diagnostic Use.

1.3 Company

DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2
B-1348 Louvain-la-Neuve
Belgium
Tel. Nr. +32 (0)10/84.99.11
E-mail: tech.support@diasource.be

1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23
Centre Anti-Poisons (BE) 070 245 245
Please refer to your local Anti-Poison Center!

TRACER

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Not classified

2.1.2 Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

2.1.3 Adverse physicochemical, human health and environmental effects

No additional information available

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH phrases :

EUH210 - Safety data sheet available on request

2.3 Other hazards

No additional information available.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
albumins, blood serum	(CAS No) 9048-46-8 (EC no) 232-936-2	< 8	Xn; R22	Acute Tox. 4 (Oral), H302
Sodium phosphate, dihydrate	(CAS No) 10028-24-7 (EC no) 231-448-7	< 1,5	Not classified	Eye Irrit. 2, H319

Other hazardous substances: 125J Protein \leq 110 kBq (of the finished product)

Full text of R- and H-phrases: see section 16.

4 FIRST AID MEASURES

4.1 Description of first aid measures

General	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Allow victim to breathe fresh air.
Skin Contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion Rinse mouth. Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries :

Not expected to present a significant hazard under anticipated conditions of normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Foam. Extinguishing powder. Carbon dioxide. Sand. Water spray.

Unsuitable extinguishing media Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture

Fire hazard: None known.

5.3 Advice for fire fighters

Firefighting instructions Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2 Environmental Precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and material for containment and cleaning-up

Methods for cleaning up :

Collect spillage. Store away from other materials.

6.4 Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Hygiene measures : When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Store in dry, cool, well-ventilated area. Keep container closed when not in use.

Prohibitions on mixed storage : Keep away from food, drink and animal feeding stuffs.

7.3 Specific Use(s)

Tracer.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No additional information available.

8.2 Exposure controls

Hand protection	Wear suitable gloves. Nitrile rubber. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Wear protective gloves.
Eye Protection	Safety goggles recommended during refilling.
Skin and body protection	Protective clothing not absolutely necessary.
Respiratory Protection	Not required.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Solid for dilution / liquid

Colour : No data available

Odour : Characteristic

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Non flammable

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Solubility : No data available

Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2 Other information

No additional information available.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reactions known.

10.2 Chemical Stability

Stable under use and storage conditions as recommended in section 7.

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

None known.

10.6 Hazardous Decomposition Products

No hazardous decomposition products known.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage / eye irritation	Based on available data, the classification criteria are not met
Skin/ Respiratory sensitization	Not classified
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Not classified
Reproductive Toxicity	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Based on available data, the classification criteria are not met

Aspiration hazard

Not classified

Potential adverse human health effects and symptoms

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

12 ECOLOGICAL INFORMATION

12.1 Toxicity

No additional information available

12.2 Persistence and degradability

Not established

12.3 Bioaccumulation potential

Not established

12.4 Mobility in soil

No additional information available

12.5 Results of PBT and vPvB assessment

No additional information available

12.6 Other adverse effects

No other effects known.

Do not empty into drains.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste treatment methods : Do not empty into drains.**Waste disposal recommendations :** Dispose in a safe manner in accordance with local/national regulations.

Ordinance should be considered.

Ecology - waste materials:

Avoid release to the environment.

14 TRANSPORT INFORMATION

According to ADR and IATA (Chapter 10.3.1) regulations , shipment below the exemption quantity (1 MBq for Iodine 125) are considered as not dangerous goods. If the shipment exceed this quantity, please refer to the information given below:

In accordance with ADR / RID / IMDG / IATA / AND.

The given classification is with respect to the limited quantity for radioactivity of Iod125 ($1 \cdot 10^6$ Bq): Within one and the same transport maximal 9 finished products with 110 kBq can be sent. For consignments above this radioactivity the classification needs to be recalculated.

14.1 UN number

UN-No. (ADR) : 2910

UN-No. (IATA) : 2910

UN-No. (IMDG) : 2910

14.2 UN proper shipping name**Proper Shipping Name (ADR) :**

RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL

Proper Shipping Name (IATA) :

RADIOACTIVE MATERIAL, EXCEPTED PACKAGE — LIMITED QUANTITY OF MATERIAL

Proper Shipping Name (IMDG) :

RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL

Proper Shipping Name (ADN) :

UN 2910 RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL, 7, (E)

14.3 Transport hazard class(es)

Class (ADR) : 7

Class (IMDG) : 7

Subsidiary risk (IMDG): SP290

Class (IATA) : 7

Hazard labels (IATA): 7



Danger labels (IMDG) : 7

**14.4 Packing group**

Not applicable.

14.5 Environmental hazards**Dangerous for the environment :** No**Marine pollutant :** No**Other information :** No supplementary information available.**14.6 Special precautions for user**14.6.1 Overland transport**Special provisions (ADR) :** 290, 325**Transport category (ADR) :** 4**Tunnel restriction code (ADR) :** E**Limited quantities (ADR) :** 0**Excepted quantities (ADR) :** E0

14.6.2 Transport by sea**Special provisions (IMDG) :** 290, 325**Limited quantities (IMDG) :** 0**Excepted quantities (IMDG) :** E0**Packing instructions (IMDG) :** 4.1.9**EmS-No. (Fire) :** F-I**EmS-No. (Spillage) :** S-S**Stowage category (IMDG) :** A**14.6.3** Air transport**CAO packing instructions (IATA) :** See 10.3**PCA Limited quantities (IATA) :** Forbidden**Special provisions (IATA) :** A23, A130**ERG code (IATA) :** 7**15 REGULATORY INFORMATION****15.1** Safety, health and environmental regulation/legislation specific for the substance or mixture**15.1.1** EU-Regulations

No REACH Annex XVII restrictions

Contains no substance on the REACH candidate list.

15.1.2 National regulationsGermany**Water hazard class (WGK) :** 1 - low hazard to waters.**WGK remark :** Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe(VwVwS)**Storage class (LGK) :** LGK 13 - Non-combustible solids**15.2** Chemical Safety Assessment

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

16 OTHER INFORMATION**Data sources :** 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.**Other information :** None.**Full text of R-, H- and EUH-phrases:**

Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4

Eye Irrit. 2 Serious eye damage/eye irritation, Category 2

H302 Harmful if swallowed

H319 Causes serious eye irritation



MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: IGF-II RIA

Catalog #: KIPMR30

R22 Harmful if swallowed

Xn Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product .

Notification:

English is acceptable for our MSDS as the following conditions are met:

- Medical specialists (users) are well educated in the English language

BUFFERED SOLUTIONS

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

The mixture is not classified as dangerous in the terms of the directive 1999/45/EC.

2.2 Label elements

2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)

EUH208 - Contains Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1). May produce an allergic reaction.

EUH210 - Safety data sheet available on request.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Phosphoric acid	Substance for which an EU exposure limit value applies
Registration number	-
Index	015-011-00-6
EINECS, ELINCS, NLP	231-633-2
CAS	CAS 7664-38-2
Content %	1-5
Classification according to Directive 67/548/EEC	Corrosive, C, R34
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Corr. 1B, H314 Met. Corr. 1, H290

For the text of the R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all

notes that may be given here for the named classification have been taken into account.

4 FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Not required

Skin Contact Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

- Eye Contact** Remove contact lenses.
Wash thoroughly for several minutes using copious water. Seek medical help if necessary.
- Ingestion** Rinse the mouth thoroughly with water.
Give copious water to drink - consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media** Adapt to the nature and extent of fire.
Water jet spray/foam/CO₂/dry extinguisher
- Unsuitable extinguishing media** None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

- Oxides of carbon
- Oxides of phosphorus
- Oxides of nitrogen
- Toxic gases

5.3 Advice for fire fighters

In case of fire and/or explosion do not breathe fumes.
Protective respirator with independent air supply.
According to size of fire
Full protection, if necessary
Dispose of contaminated extinction water according to official regulations.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

Avoid contact with eyes or skin.
If applicable, caution - risk of slipping.

6.2 Environmental Precautions

Prevent from entering drainage system.
Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning-up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

Flush residue using copious water.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

7 HANDLING AND STORAGE

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Avoid contact with eyes.

Avoid long lasting or intensive contact with skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feeding stuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Protect from frost.

7.3 Specific Use(s)

No information available at present.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

UK

Chemical Name	Phosphoric acid	Content%: 1-5
WEL-TWA: 1 mg/m ³ (WEL, EU)	WEL-STEL: 2 mg/m ³ (WEL, EU)	---
BMGV: ---	Other information: ---	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period)

EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

BMGV = Biological monitoring guidance value EH40.BGW = "Biologischer Grenzwert" (biological limit value, Germany)

Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

Phosphoric acid						
Area of application	Exposure route/ environmental compartment	Effect on health	Description	Value	Unit	Note
Workers / employees	Human - inhalation	Long term, local effects	DNEL	2.92	mg/m ³	
Consumer	Human - inhalation	Long term, local effects	DNEL	0.73	mg/m ³	

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feeding stuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles (EN 166) withside protection, with danger of projections.

Skin protection - Hand protection:

Normally not necessary.

With long-term contact: If applicable, Rubber gloves (EN 374).

Minimum layer thickness in mm: 0,5

Permeation time (penetration time) in minutes: 480

The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Usual protective working garments

Respiratory protection: Normally not necessary.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

9 **PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Colour: According to specification

Odour: Characteristic

Odour threshold: Not determined

pH-value: According to specification

Melting point/freezing point: Not determined

Initial boiling point and boiling range: Not determined

Flash point: n.a.

Evaporation rate: Not determined

Flammability (solid, gas): Not determined

Lower explosive limit: n.a.

Upper explosive limit: n.a.

Vapour pressure: Not determined

Vapour density (air = 1): Not determined

Density: Not determined

Bulk density: n.a.

Solubility(ies): Not determined

Water solubility: Mixable

Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: No

Decomposition temperature: Not determined

Viscosity: Not determined

Explosive properties: Product is not explosive.

Oxidising properties: No

9.2 Other information

Miscibility: Not determined

Fat solubility / solvent: Not determined

Conductivity: Not determined

Surface tension: Not determined

Solvents content: Not determined

10 **STABILITY AND REACTIVITY**

10.1 Reactivity

Not to be expected.

10.2 Chemical Stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to Avoid

None known.

10.5 Incompatible materials

See also section 7.
 None known.

10.6 Hazardous Decomposition Products

See also section 5.2
 No decomposition when used as directed.

11 TOXICOLOGICAL INFORMATION

Possibly more information on health effects, see Section 2.1 (classification).

- Acute toxicity, by oral route:** n.d.a.
- Acute toxicity, by dermal route:** n.d.a.
- Acute toxicity, by inhalation:** n.d.a.
- Skin corrosion/irritation:** n.d.a.
- Serious eye damage/irritation:** n.d.a.
- Respiratory or skin sensitisation:** n.d.a.
- Germ cell mutagenicity:** n.d.a.
- Carcinogenicity:** n.d.a.
- Reproductive toxicity:** n.d.a.
- Specific target organ toxicity -single exposure (STOT-SE):** n.d.a.
- Specific target organ toxicity -repeated exposure (STOTRE):** n.d.a.
- Aspiration hazard:** n.d.a.
- Respiratory tract irritation:** n.d.a.
- Repeated dose toxicity:** n.d.a.
- Symptoms:** n.d.a.
- Other information:** Classification according to calculation procedure.

Phosphoric acid						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route	LD50	2600	mg/kg	Rat		
Acute toxicity, by dermal route	LC50	2740	mg/kg	Rabbit		
Acute toxicity, by inhalation	LC50	1.689	mg/l/1h			
Skin corrosion/irritation				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Corrosive
Serious eye damage/irritation				Rabbit		Corrosive
Respiratory or skin sensitisation				Human being	(Patch-Test)	Not sensitizing
Germ cell mutagenicity					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity	NOAEL	370-410	mg/kg		OECD 414 (Prenatal Developmental Toxicity Study)	Not to be expected
Reproductive toxicity (effects on fertility)	NOAEL	>=500	mg/kg		OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	Not to be expected

Specific target organ toxicity - single exposure (STOT-SE)						Negative
Specific target organ toxicity - repeated exposure (STOT-RE)						Negative
Repeated dose toxicity	NOAEL	250	mg/kg	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	
Symptoms						respiratory distress, vomiting, coughing, collapse, cramps, mucous membrane irritation, shock

12 ECOLOGICAL INFORMATION

Toxicity : n.d.a.

Persistence and degradability: n.d.a.

Bioaccumulation potential: n.d.a.

Mobility in soil: n.d.a.

Results of PBT and vPvB assessment: n.d.a.

Other adverse effects: n.d.a.

Phosphoric acid							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish	LC50	96h	100-1000	mg/l			
Toxicity to daphnia	EC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to daphnia	NOEC/NOEL	48h	56	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to algae	EC50	72h	>100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to algae	NOEC/NOEL	72h	100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
Bioaccumulative potential	Log Pow		-0.77				calculated value
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria	EC50		270	mg/l	Activated sludge		

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

For the substance / mixture / residual amounts :

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC) 18 01 07 chemicals other than those mentioned in 18 01 06.

Recommendation:

Pay attention to local and national official regulations
E.g. suitable incineration plant.
E.g. dispose at suitable refuse site.

For contaminated packing material:

Pay attention to local and national official regulations
Empty container completely.
Dispose of packaging that cannot be cleaned in the same manner as the substance.
Uncontaminated packaging can be recycled.

14 TRANSPORT INFORMATION

General statements

UN number: n.a.

Transport by road/by rail (ADR/RID)

UN proper shipping name:
Transport hazard class(es): n.a.
Packing group: n.a.
Classification code: n.a.
LQ (ADR 2015): n.a.
LQ (ADR 2009): n.a.
Environmental hazards: Not applicable
Tunnel restriction code:

Transport by sea (IMDG-code)

UN proper shipping name:
Transport hazard class(es): n.a.
Packing group: n.a.
Marine Pollutant: n.a.
Environmental hazards: Not applicable

Transport by air (IATA)

UN proper shipping name:
Transport hazard class(es): n.a.
Packing group: n.a.
Environmental hazards: Not applicable

Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

15 REGULATORY INFORMATION

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

National rules/regulation for the compliance with maximum quantities with regard to phosphates and or phosphorous compounds must be observed and complied with.

For classification and labelling see Section 2.

Observe restrictions:

Directive 2010/75/EU (VOC)0 %

15.2 Chemical Safety Assessment

A chemical safety assessment is not provided for mixtures.

16 OTHER INFORMATION

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Not applicable

The following phrases represent the posted R phrases / H phrases, Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

R34 Causes burns.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Skin Corr. — Skin corrosion

Met. Corr. — Substance or mixture corrosive to metals

Notification:

English is acceptable for our MSDS as the following conditions are met:

- Medical specialists (users) are well educated in the English language

MSDS established : 2019-10-31

Revision number : 4