

TGO (IFCC) 2040XXX

FDS0021ENG-REV02 Revision date: 10/2023

# 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade Name: TGO (IFCC) Reagent R1

Article n°: 2040XXX MS: 80115310047

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

General use: Reagent for in-vitro diagnostics in human samples

For professional use only.

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

Kovalent do Brasil Ltda.

Rua Cristóvão Sardinha, 110 - Jd. Bom Retiro - São Gonçalo - RJ - Brasil.

Tel: +(55 21) 2623-1367

e-mail: kovalent@kovalent.com.br

# 1.4 Emergency telephone number

Tel: +(55 21) 2623-1367 - Costumer service 8AM to 5PM.

0800 015 1414

#### In case of emergency

24 hours service

0800-722-6001 - RENACIAT (Rede Nacional de Centros de Informação e Assistência Toxicológica)

#### 2 Hazards Identification

#### 2.1 Classification of the substance or mixture

Classification according to ABNT NBR 14725.

This mixture is classified as not hazardous.

#### 2.2 Label elements

#### Labelling (GHS)

Hazard statements: Not applicable

Precautionary statements: Not applicable

Special labelling

EUH210: Safety data sheet available on request.

# 2.3 Other hazards

No risks worthy of mention.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

# 3 Composition/information on ingredients

### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical characterization: Aqueous solution

Hazardous ingredients:

Identifiers	Designation Classification	Content	
EC No.	Aspartic acid	< 5%	
200-291-6	Eye Irrit. 2; H319.		
CAS 56-84-8	•		

Full text of H- and EUH-statements: see section 16.

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Additional information: Contains Sodium azide (0.95 g/L) as preservative.

#### 4 First aid measures

#### 4.1 Description of first aid measures

In case of inhalation: Provide fresh air. If the casualty has difficulty breathing, call a doctor immediately.

Following skin contact: Change contaminated clothing. Remove residues with water. In case of skin reactions, consult

a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

Remove contact lenses, if present and easy to do. Continue rising. In case of troubles or

persistent symptoms, consult an ophthalmologist.

After swallowing: Rinse mouth thoroughly with water. Do not induce vomiting without medical advice.

Have victim drink large quantities of water, with active charcoal if possible. Seek medical

attention.

Never give anything by mouth to an unconscious person.

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

After eye contact: May cause irritations.

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

Treat symptomatically.

# 5 Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media: Product is non-combustible. Extinguishing materials should therefore be

selected according to surroundings.

#### 5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated:: Nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear self-contained breathing apparatus.

Additional information: Do not allow fire water to penetrate into surface or ground water.

# 6 Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear appropriate protective equipment. Provide adequate ventilation.

### 6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

# 6.3 Methods and material for containment and cleaning up

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder.

Store in special closed containers and dispose of according to ordinance. Wash spill area with plenty of water.

#### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

# 7 Handling and storage

#### 7.1 Precautions for safe handling

Advices on safe handling: Avoid contact with skin and eyes. Wear appropriate protective equipment.

Keep all containers, equipment and working place clean.

Provide adequate ventilation, and local exhaust as needed. Wash hands before breaks and after work. Do not eat, drink or smoke when using this

product.

#### 7.2 Conditions for safe storage, including any incompatibilities

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Requirements for storerooms and containers: Keep containers tightly closed and at a temperature between 2 °C and 8 °C.

Protect from light. Do not freeze. Keep sterile.

Hints on joint storage: Do not store together with: Acids, alkalis.

Storage class: 12 = Non-combustible liquids

# 7.3 Specific end use(s)

No information available.

# 8 Exposure controls/personal protection

#### 8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

Provide adequate ventilation, and local exhaust as needed.

# Personal protection equipment Occupational exposure controls

Respiratory protection: Provide adequate ventilation.

Hand protection: Protective gloves according to EN 374.

Glove material: Nitrile rubber - Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Avoid contact with skin and eyes. Change contaminated clothing. Wash hands before breaks

and after work. When using do not eat, drink or smoke.

#### **Environmental exposure controls**

Refer to "6.2 Environmental precautions"

# 9 Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa Liquid

Colour: Colourless, clear

Odour: no characteristic odour

Odour threshold: No data available

Melting point/freezing point:

No data available

Initial boiling point and boiling range: No data available

Flammability: No data available

Upper/lower flammability or explosive limits: No data available

Flash point/flash point range: Not combustible

Decomposition temperature: No data available

pH: at 37 °C: 7.65

Viscosity, kinematic: No data available

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Water solubility: Completely miscible

Partition coefficient: n-octanol/water: No data available

Vapour pressure: No data available

Density: at 20 °C: 1.031 g/mL

Vapour density: No data available

Particle characteristics: Not applicable

9.2 Other information

Explosive properties: No data available

Oxidizing characteristics: No data available

Auto-ignition temperature: No data available

Evaporation rate: No data available

Additional information: No data available

# 10 Stability and reactivity

#### 10.1 Reactivity

Refer to 10.3

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

No hazardous reaction known.

#### 10.4 Conditions to avoid

Protect against heat /sun rays.

# 10.5 Incompatible materials

Acids, alkalis.

#### 10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available

# 11 Toxicological information

Acute toxicity (oral):

Acute toxicity (dermal):

Acute toxicity (inhalative):

Skin corrosion/irritation:

Lack of data.

Lack of data.

Lack of data.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract:

Skin sensitisation:

Germ cell mutagenicity/Genotoxicity:

Carcinogenicity:

Reproductive toxicity:

Effects on or via lactation:

Specific target organ toxicity:

Lack of data.

(single exposure)

Specific target organ toxicity: Lack of data.

(repeated exposure)

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Aspiration hazard: Lack of data.

Endocrine disrupting properties: No data available

Other information: Contains Sodium azide (0.95 g/L):

After resorption: headache, dizziness, nausea, cough, vomiting, spasms, breathing

paralysis, CNS disorders, low blood pressure, cardiovascular failure,

unconsciousness, collapse.

**Symptoms** 

After eye contact: May cause irritations.

# 12 Ecological information

12.1 Toxicity

Water Hazard Class: 1 = slightly hazardous to water

12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: No data available

12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available

## 12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

# 13 Disposal considerations

#### 13.1 Waste treatment methods

Product: Dispose of waste according to applicable legislation.

Package: Dispose of waste according to applicable legislation.

Additional information: Do not reuse empty containers.

# 14 Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR Not applicable

14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR Not restricted

14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA-DGR Not applicable

14.4 Risk Number

-

# 14.5 Packing group

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ADR/RID, ADN, IMDG, IATA-DGR Not applicable

14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous according to the criteria of the

UN model regulations.

Marine pollutant - IMDG: No

#### 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

# 15 Regulatory information

- Product produced in accordance with the requirements established by RDC 665 of 30/03/2022 and with labeling information in accordance with RDC 206 of 17/11/2006.
- For more details on product disposal refer to RDC 222 of 28/03/2018 and NBR 10004.
- This safety data sheet was prepared in accordance with ABNT/NBR 14725:23.

# 16 Other information

Wording of the H-phrases under paragraph 2 and 3:

H319 = Causes serious eye irritation.

EUH210 = Safety data sheet available on request

The above information is considered correct but is not intended to be complete and should be used only as a guide. Kovalent is not responsible for any damage resulting from handling or use.

In article XXX: The three X are for the volume.

#### Abbreviations and acronyms:

ABNT: Associação Brasileira de Normas Técnicas

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

AS/NZS: Australian Standards/New Zealand Standards

CAS: Chemical Abstracts Service

CE: Conformite Europeenne

CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

CNS: Central Nervous System

DMEL: Derived minimal effect level

DNEL: Derived no-effect level

EC: European Community

EN: European Standard

EQ: Excepted quantities

EU: European Union

Eye Irrit.: Eye irritation

GHS: Globally Harmonized System

IATA: International Air Transport Association

IATA-DGR: International Air Transport Association - Dangerous Goods Regulations

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IMDG Code: International Maritime Dangerous Goods Code

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

MS: Ministério da Saúde NBR: Norma Brasileira

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic PNEC: Predicted no-effect concentration RDC: Resolução da Diretoria Colegiada

RENACIAT: Rede Nacional de Centros de Informação e Assistência Toxicológica RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

TRGS: Technical Rules for Hazardous Substances vPvB: Very persistent and very bioaccumulative

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# 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade Name: TGO (IFCC) Reagent R2

Article n°: 2040XXX MS: 80115310047

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

General use: Reagent for in-vitro diagnostics in human samples

For professional use only.

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

Kovalent do Brasil Ltda.

Rua Cristóvão Sardinha, 110 – Jd. Bom Retiro – São Gonçalo – RJ – Brasil.

Tel: +(55 21) 2623-1367

e-mail: kovalent@kovalent.com.br

# 1.4 Emergency telephone number

Tel: +(55 21) 2623-1367 - Costumer service 8AM to 5PM.

0800 015 1414

#### In case of emergency

24 hours service

0800-722-6001 - RENACIAT (Rede Nacional de Centros de Informação e Assistência Toxicológica)

#### 2 Hazards Identification

#### 2.1 Classification of the substance or mixture

Classification according to ABNT NBR 14725.

This mixture is classified as not hazardous.

#### 2.2 Label elements

Labelling (GHS)

Hazard statements: Not applicable

Precautionary statements: Not applicable

#### 2.3 Other hazards

No risks worthy of mention.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

# 3 Composition/information on ingredients

#### 3.1 Substances

Not applicable

# 3.2 Mixtures

Chemical characterization: Aqueous solution

Additional information: The product does not contain dangerous substances above limits that need to be mentioned

in this section according to applicable legislation.

Contains Sodium azide (0.95 g/L) as preservative.

# 4 First aid measures

## 4.1 Description of first aid measures

In case of inhalation: Provide fresh air. If the casualty has difficulty breathing, call a doctor immediately.

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Following skin contact: Change contaminated clothing. Remove residues with water. In case of skin reactions, consult

a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an

ophthalmologist.

After swallowing: Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. Have

victim drink large quantities of water, with active charcoal if possible. Seek medical attention.

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

After eye contact: mild irritant.

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

Treat symptomatically.

# 5 Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media: Product is non-combustible. Extinguishing materials should therefore be

selected according to surroundings.

#### 5.2 Special hazards arising from the substance or mixture

Fires in the immediate vicinity may cause the development of dangerous vapours.

n case of fire may be liberated: Sodium compounds, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear self-contained breathing apparatus.

Additional information: Do not allow fire water to penetrate into surface or ground water.

# 6 Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Do not breathe vapors. In enclosed areas: Provide fresh air. Wear appropriate protective equipment.

# 6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

#### 6.3 Methods and material for containment and cleaning up

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder.

Store in special closed containers and dispose of according to ordinance. Wash spill area with plenty of water.

#### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

# Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling: Avoid contact with skin and eyes. Keep all containers, equipment and

working place clean. Wear appropriate protective equipment.

Provide adequate ventilation, and local exhaust as needed. Wash hands before breaks and after work. Do not eat, drink or smoke when using this

product.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers: Keep containers tightly closed and at a temperature between 2 °C and 8 °C.

Protect from light. Do not freeze. Keep sterile.

Hints on joint storage: Do not store together with: Acids, alkalis.

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Storage class: 12 = Non-combustible liquids

**7.3 Specific end use(s)** No information available.

# 8 Exposure controls/personal protection

8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment Occupational exposure controls

Respiratory protection: If vapours form, use respiratory protection. Use filter type A (= against vapours of organic

substances) according to EN 14387.

Hand protection: Protective gloves according to EN 374.

Glove material: Nitrile rubber - Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Avoid contact with skin and eyes. Change contaminated clothing.

Wash hands before breaks and after work. When using do not eat, drink or smoke.

#### **Environmental exposure controls**

Refer to "6.2 Environmental precautions"

# 9 Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa Liquid

Colour: Clear, slightly yellowish

Odour: No characteristic odour

Odour threshold: No data available

Melting point/freezing point:

No data available

Initial boiling point and boiling range: No data available

Flammability: No data available

Upper/lower flammability or explosive limits: No data available

Flash point/flash point range: Not combustible

Decomposition temperature: No data available

pH: at 25 °C: 9.6 – 9.7

Viscosity, kinematic: No data available

Water solubility: Completely miscible

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Partition coefficient: n-octanol/water: No data available

Vapour pressure: No data available

Density: at 20 °C: 1.015 g/mL

Vapour density: No data available

Particle characteristics: Not applicable

9.2 Other information

Explosive properties: No data available

Oxidizing characteristics: No data available

Auto-ignition temperature: No data available

Evaporation rate: No data available

Additional information: No data available

# 10 Stability and reactivity

#### 10.1 Reactivity

Refer to 10.3

# 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known.

# 10.4 Conditions to avoid

Protect against heat /sun rays.

#### 10.5 Incompatible materials

Acids, alkalis.

# 10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available

# 11 Toxicological information

Acute toxicity (oral): Lack of data. Acute toxicity (dermal): Lack of data. Acute toxicity (inhalative): Lack of data. Skin corrosion/irritation: Lack of data. Serious eye damage/irritation: Lack of data. Sensitisation to the respiratory tract: Lack of data. Skin sensitisation: Lack of data. Germ cell mutagenicity/Genotoxicity: Lack of data. Carcinogenicity: Lack of data. Reproductive toxicity: Lack of data. Effects on or via lactation: Lack of data. Specific target organ toxicity: Lack of data.

(single exposure)

Specific target organ toxicity: Lack of data.

(repeated exposure)

Aspiration hazard: Lack of data.

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Endocrine disrupting properties: No data available

Other information: Contains Sodium azide (0.95 g/L):

After resorption: headache, dizziness, nausea, cough, vomiting, spasms, breathing

paralysis, CNS disorders, low blood pressure, cardiovascular failure,

unconsciousness, collapse.

**Symptoms** 

After eye contact: Mild irritant.

# 12 Ecological information

12.1 Toxicity

Water Hazard Class: 1 = slightly hazardous to water

12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: No data available

12.4 Mobility in soil

No data available

# 12.5 Results of PBT and vPvB assessment

No data available

# 12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

# 13 Disposal considerations

#### 13.1 Waste treatment methods

Product: Dispose of waste according to applicable legislation.

Package: Dispose of waste according to applicable legislation.

Additional information: Do not reuse empty containers.

# 14 Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR Not applicable

14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR Not restricted

14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA-DGR Not applicable

14.4 Risk Number

14.5 Packing group

ADR/RID, ADN, IMDG, IATA-DGR

Not applicable

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14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous according to the criteria of the

UN model regulations.

Marine pollutant - IMDG:

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

# 15 Regulatory information

- Product produced in accordance with the requirements established by RDC 665 of 30/03/2022 and with labeling information in accordance with RDC 206 of 17/11/2006.
- For more details on product disposal refer to RDC 222 of 28/03/2018 and NBR 10004.
- This safety data sheet was prepared in accordance with ABNT/NBR 14725:23.

#### 16 Other information

The above information is considered correct but is not intended to be complete and should be used only as a guide. Kovalent is not responsible for any damage resulting from handling or use.

In article XXX: The three X are for the volume.

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ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

AS/NZS: Australian Standards/New Zealand Standards

CAS: Chemical Abstracts Service

CE: Conformite Europeenne

CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

CNS: Central Nervous System DMEL: Derived minimal effect level

DNEL: Derived no-effect level

EC: European Community EN: European Standard

EQ: Excepted quantities

EU: European Union

GHS: Globally Harmonized System

IATA: International Air Transport Association

IATA-DGR: International Air Transport Association - Dangerous Goods Regulations

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IMDG Code: International Maritime Dangerous Goods Code

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

MS: Ministério da Saúde NBR: Norma Brasileira

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic PNEC: Predicted no-effect concentration RDC: Resolução da Diretoria Colegiada

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

TRGS: Technical Rules for Hazardous Substances vPvB: Very persistent and very bioaccumulative

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