

FERRO FERENE WS 3020XXX

FDS0010ENG-REV02 Revision date: 02/2024

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

1.1 Product identifier

Trade Name: Ferro Ferene WS Reagent R1

Article n°: 3020XXX MS: 80115310192

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

Reagent for in-vitro diagnostics in human samples

For professional use only.

1.3 Manufacturer

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 from 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 Skin Irrit. 2; H315 Causes skin irritation.

Eye Dam. 1; H318 Causes serious eye damage.

2.2 Label elements

Labelling (GHS)



Signal word: Danger

Hazard statements: H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements: P264 Wash hands and face thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

Text for labelling: Contains Dodecan-1-ol, ethoxylated and Alcohols, C9-11-iso-, C10-rich,

ethoxylated.

2.3 Other hazards

No risks worthy of mention.

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3 Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical characterization: Aqueous solution of inorganic salts and organic compounds.

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 200-469-3	Aminocaproic acid	< 10 %	Skin Irrit. 2; H315. Eye Irrit. 2; H319.
CAS 60-32-2	·		STOT SE 3; H335.
EC No. 200-580-7	Acetic acid	1 - 5 %	Flam. Liq. 3; H226. Skin Corr. 1A; H314.
CAS 64-19-7			Specific concentration limits (SCL):
			Skin Corr. 1A; H314: C ≥ 90 % / Skin Corr. 1B; H314: 25 % ≤
			C < 90 % / Skin Irrit. 2; H315: 10
			% ≤ C < 25 % / Eye Irrit. 2; H319: 10 % ≤ C < 25 %
EC No. 500-002-6	Dodecan-1-ol,	1 - 5 %	Acute Tox. 4; H302. Eye Dam. 1; H318. Aquatic Chronic 3;
CAS 9002-92-0	ethoxylated		H412.
list no. 616-607-4	Alcohols, C9-11-iso-,	1 - 5 %	Eye Dam. 1; H318.
CAS 78330-20-8	C10-rich, ethoxylated		
EC No. 200-543-5	Thiourea	< 1 %	Acute Tox. 4; H302. Carc. 2; H351. Repr. 2; H361d. Aquatic
CAS 62-56-6			Chronic 2; H411.

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

4 First aid measures

4.1 Description of first aid measures

General information: First aider: Pay attention to self-protection!

If medical advice is needed, have product container or label at hand.

Take off contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air. Seek medical treatment in case of troubles.

Following skin contact: Remove residues with water. In case of skin irritation, 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 seek the

immediate attention of an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Immediately get medical attention. Never

give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. Causes skin irritation.

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.

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

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5.3 Advice for firefighters

Special protective equipment for firefighters: Wear a self-contained breathing apparatus and chemical protective

clothing.

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, eyes, and clothing. Workplace should be equipped with a shower and an eye rinsing apparatus. Wear appropriate protective equipment.

In enclosed areas: Provide fresh air. Do not breathe vapours. Take off contaminated clothing and wash it before reuse.

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. Final cleaning.

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:

Provide adequate ventilation, and local exhaust as needed. Do not breathe vapours. Avoid

contact with skin, eyes, and clothing.

Keep all containers, equipment and working place clean. Take off contaminated clothing and

wash it before reuse.

Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Workplace should be equipped with a shower and an eye rinsing apparatus.

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 against heat / sun rays. Do not freeze. Keep sterile.

Hints on joint storage: Do not store together with: strong oxidizing agents, alkalis.

Keep away from food, drink and animal feeding stuffs.

Storage class: 12 = Non-combustible liquids

7.3 Specific end use(s)

No information available.

8 Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Туре	Limit value	
64-19-7	Acetic acid	Europe: IOELV: STEL	50 mg/m³; 20 ppm	
		Europe: IOELV: TWA	25 mg/m ³ ; 10 ppm	ŀ
		Germany: TRGS 900 Kurzzeit	50 mg/m³; 20 ppm	
		Germany: TRGS 900 Langzeit	25 mg/m³; 10 ppm	

8.2 Exposure controls

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

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Personal protection equipment Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded.

Use combination filter type A/P 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:

Do not breathe vapours. Avoid contact with skin, eyes, and clothing. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Workplace should be equipped with a shower and an

eye rinsing apparatus.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

Physical and chemical properties

Physical state at 20 °C and 101.3 kPa: liquid

Colour: colorless, clear

Odour: like acetic acid

Odour threshold: No data available

pH: at 25 °C: 4.5

Melting point/freezing point:

No data available

Initial boiling point and boiling range: No data available

Flash point/flash point range: not combustible

Evaporation rate: No data available

Flammability: No data available

Upper/lower flammability or explosive limits: No data available

Vapour pressure: No data available

Vapour density: No data available

Density: at 20 °C: 1.049 g/mL

Water solubility: completely miscible

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

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

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Particle characteristics: Not applicable

Auto-ignition temperature: No data available

Explosive properties: No data available

Oxidizing characteristics: 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 when handled and stored according to provisions.

10.4 Conditions to avoid

Protect from frost, heat and sunlight.

10.5 Incompatible materials

Strong oxidizing agents, 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

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal):

Acute toxicity (inhalative):

Lack of data.

Lack of data.

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation: Eye Dam. 1; H318 = Causes serious eye damage.

Sensitisation to the respiratory tract:

Skin sensitisation:

Germ cell mutagenicity/Genotoxicity:

Lack of data.

Carcinogenicity:

Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Lack of data. Aspiration hazard: Lack of data.

Endocrine disrupting properties: No data available

Symptoms: In case of ingestion: May cause irritations.

The following symptoms may occur: Nausea, vomiting, diarrhoea,

gastrointestinal complaints.

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12 Ecological information

12.1 Toxicity

Aquatic toxicity: Information about Thiourea:

Toxic to aquatic life with long lasting effects. Water hazard class: 3 - Highly 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 Other adverse effects

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

13 Disposal considerations

13.1 Waste treatment methods

Product: Special waste. Dispose of waste according to applicable legislation.

Package: Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.

Additional information: Do not reuse empty containers.

14 Transport information

14.1 UN number

ADR/RID, IMDG, IATA, ANTT: Not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA, ANTT: Not restricted

14.3 Transport hazard class(es)

ADR/RID: Not applicable IMDG: Not applicable IATA: Not applicable ANTT: Not applicable

14.4 Risk Number

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14.5 Packing group

ADR/RID, IMDG, IATA, ANTT: Not applicable

14.6 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous according to regulations.

Marine pollutant:

14.7 Special precautions for user

No dangerous good in sense of these transport regulations.

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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.

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

H226 = Flammable liquid and vapour.

H302 = Harmful if swallowed.

H314 = Causes severe skin burns and eye damage.

H315 = Causes skin irritation.

H318 = Causes serious eye damage. H319 = Causes serious eye irritation. H335 = May cause respiratory irritation.

H351 = Suspected of causing cancer.

H361d = Suspected of damaging the unborn child. H411 = Toxic to aquatic life with long lasting effects. H412 = Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

Acute Tox.: Acute toxicity

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

Aquatic Chronic: Hazardous to the aquatic environment - chronic

ANTT: Agência Nacional de Transporte Terrestre / National Agency of Transportation by Road

AS/NZS: Australian Standards/New Zealand Standards

Carc.: Carcinogenicity

CAS: Chemical Abstracts Service CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

DMEL: Derived minimal effect level DNEL: Derived no-effect level EC: European Community EN: European Standard EQ: Excepted quantities

EU: European Union Eye Dam.: Eye damage Eye Irrit.: Eye irritation Flam. Liq.: Flammable liquid

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: Anvisa's Registry Code NBR: Brazilian technical ordinance OEL: Occupational Exposure Limit Value

OSHA: Occupational Safety and Health Administration

pH: Potential of Hydrogen

PBT: Persistent, bioaccumulative and toxic PNEC: Predicted no-effect concentration

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RDC: Resolution from the Directory Board

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

Repr.: Reproductive toxicity

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

Skin Corr.: Skin corrosion Skin Irrit.: Skin irritation

STOT SE: Specific target organ toxicity - single exposure

TLV: Threshold Limit Value

TRGS: Technical Rules for Hazardous Substances

UN: United Nations

WEL: Workplace Exposure Limit

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

1.1 Product identifier

Trade Name: Ferro Ferene WS Reagent R2

Article n°: 3020XXX MS: 80115310192

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

Reagent for in-vitro diagnostics in human samples

For professional use only.

1.3 Manufacturer

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 from 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

Due to its pH value (see section 9), irritation of the skin and eyes cannot be ruled out.

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 with Ascorbic acid

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 200-543-5	Thiourea	< 1 %	Acute Tox. 4; H302. Carc. 2; H351. Repr. 2; H361d.
CAS 62-56-6			Aquatic Chronic 2: H411.

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

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4 First aid measures

4.1 Description of first aid measures

In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.

Following skin contact: Change contaminated clothing. After contact with skin, wash immediately with plenty of water.

In case of skin irritation, 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. In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water.

Do not induce vomiting. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Can cause skin, eye, and respiratory tract irritation.

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.

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

5.3 Advice for firefighters

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

Additional information: Do not allow water used to extinguish fire to enter drains, ground or

waterways.

6 Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Avoid contact with skin, eyes, and clothing. Wear suitable protective clothing. 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. Final cleaning.

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: Provide adequate ventilation, and local exhaust as needed. Do not breathe vapours. Avoid

contact with skin, eyes, and clothing.

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Keep all containers, equipment and working place clean. Wear appropriate protective equipment. Change contaminated clothing. Have eye wash bottle or eye rinse ready at workplace.

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 against

heat / sun rays. Keep sterile. Do not freeze.

Unsuitable materials: Aluminium, copper, copper alloys, zinc.

Hints on joint storage: Do not store together with strong acids or alkalis.

Storage class: 12 = Non-combustible liquids

7.3 Specific end use(s) No information available.

Exposure controls/personal protection

8.1 Control parameters

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.

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, eyes, and clothing. Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Have eye wash bottle or eye

rinse ready at workplace.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

9 Physical and chemical properties

Physical state at 20 °C and 101.3 kPa: liquid

Colour: yellow

Odour: like sulfur

Odour threshold: No data available

pH: at 25 °C: 2.5

Melting point/freezing point:

No data available

Initial boiling point and boiling range: No data available

Flash point/flash point range: not combustible

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Evaporation rate: No data available

Flammability: No data available

Upper/lower flammability or explosive limits: No data available

Vapour pressure: No data available

Vapour density: No data available

Density: at 20 °C: 1.022 g/mL

Water solubility: at 20 °C: completely miscible

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

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

Particle characteristics: Not applicable

Oxidizing characteristics: 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 when handled and stored according to provisions.

10.4 Conditions to avoid

Protect from frost, heat and sunlight.

10.5 Incompatible materials

Strong acids, alkalis, aluminium, copper, copper alloys, zinc

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): Based on available data, the classification criteria are not met.

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.

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Reproductive toxicity:

Effects on or via lactation:

Specific target organ toxicity (single exposure):

Specific target organ toxicity (repeated exposure):

Aspiration hazard:

Endocrine disrupting properties:

Lack of data.

Lack of data.

Lack of data.

No data available

Symptoms: Can cause skin, eye and respiratory tract irritation.

12 Ecological information

12.1 Toxicity

Aquatic toxicity: In case of spills of large quantities: Harmful effects on water organisms by

modification of pH-value.

Water hazard class: 3 - Highly 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 soilNo data available

12.5 Other adverse effects

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

13 Disposal considerations

13.1 Waste treatment methods

Product: Special waste. Dispose of waste according to applicable legislation.

Package: Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.

Additional information: Do not reuse empty containers.

14 Transport information

14.1 UN number

ADR/RID, IMDG, IATA, ANTT: Not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA, ANTT: Not restricted

14.3 Transport hazard class(es)

ADR/RID: Not applicable IMDG: Not applicable IATA: Not applicable ANTT: Not applicable

14.4 Risk Number

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14.5 Packing group

ADR/RID, IMDG, IATA, ANTT: Not applicable

14.5 Environmental hazards

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

Marine pollutant:

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No

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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.

Other information 16

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.

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

H302 = Harmful if swallowed.

H351 = Suspected of causing cancer.

H361d = Suspected of damaging the unborn child.

H411 = Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

ABNT: Associação Brasileira de Normas Técnicas / National Standards Forum

Acute Tox.: Acute toxicity

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 ANTT: Agência Nacional de Transporte Terrestre / National Agency of Transportation by Road

Aguatic Chronic: Hazardous to the aguatic environment - chronic

AS/NZS: Australian Standards/New Zealand Standards

Carc.: Carcinogenicity

CAS: Chemical Abstracts Service CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

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: Anvisa's Registry Code NBR: Brazilian technical ordinance

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic

pH: Potential of Hydrogen

PNEC: Predicted no-effect concentration RDC: Resolution from the Directory Board

Repr.: Reproductive toxicity

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

TRGS: Technical Rules for Hazardous Substances

UN: United Nations

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