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

1.1 Product identifier
Trade Name: Creatinina Reagent R1
Article n°: 1030XXX
MS: 80115310205

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
H290 May be corrosive to metals.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

2.2 Label elements
Labelling (GHS)

Signal word:	Warning	
Hazard statements:	H290	May be corrosive to metals.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
Precautionary statements:	P234	Keep only in original packaging.
	P264	Wash hands and face thoroughly after handling.
	P280	Wear protective gloves/protective clothing/eye protection.
	P302+P352	IF ON SKIN: Wash with plenty of water/soap.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P332+P313	If skin irritation occurs: Get medical advice/attention.
	P337+P313	If eye irritation persists: Get medical advice/attention.
	P390	Absorb spillage to prevent material damage.

2.3 Other hazards
A corrosive effect cannot be ruled out because of the pH value.
Special danger of slipping by leaking/spilling product.

3 Composition/information on ingredients

3.1 Substances
Not applicable

3.2 Mixtures
Chemical characterization: Aqueous solution

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119457892-27-xxxx EC No. 215-185-5 CAS 1310-73-2	Sodium hydroxide	0,5 - 1,5 %	Met. Corr. 1; H290. Skin Corr. 1A; H314. Specific concentration limits (SCL): Skin Corr. 1A; H314: C ≥ 5 % / Skin Corr. 1B; H314: 2 % ≤ C < 5 % / Skin Irrit. 2; H315: 0,5 % ≤ C < 2 % / Eye Irrit. 2; H319: 0,5 % ≤ C < 2 %

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.

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical attention.

Following skin contact: Take off immediately all contaminated clothing and wash it before reuse.
After contact with skin, wash immediately with plenty of water.
Cover with sterile dressing material to protect against infection. Seek medical attention.

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. Never give anything by mouth to an unconscious person.
Do not induce vomiting. Risk of perforation! Do not try to neutralize. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed
Causes skin irritation. Causes serious eye irritation.
A corrosive effect cannot be ruled out because of the pH value. May cause respiratory irritation.
In case of ingestion: Irritant up to corrosive.

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 the event of a fire, the following may be produced when the water evaporates: Sodium compounds, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters
Special protective equipment for firefighters: In case of surrounding fires: Wear a self-contained breathing apparatus and chemical protective clothing.

6 Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures
Avoid contact with skin and eyes. Provide adequate ventilation. Wear appropriate protective equipment. Do not breathe vapours. Keep unprotected people away. Take off immediately all contaminated clothing and wash it before reuse.

6.2 Environmental precautions
Do not allow to enter into groundwater, surface water or drains.

6.3 Methods and material for containment and cleaning up
Dilute with plenty of water.
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.
Special danger of slipping by leaking/spilling product.

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 and eyes. Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. 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 from light. Do not freeze. Keep away from heat. Store containers in upright position.
Unsuitable materials: Light metals.

Hints on joint storage:	Do not store together with ammonium compounds or acids. 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

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:	Use a breathing protection against vapours/aerosol. Use filter type (A-P2/P3) according to EN 14387.
Hand protection:	Protective gloves according to EN 374.
Glove material:	Nitrile rubber. Layer thickness: 0.11 mm. 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. Do not get in eyes, on skin, or on clothing. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. 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:	colorless, clear
Odour:	no characteristic odour
Odour threshold:	No data available
pH:	at 25 °C: 13.0
Melting point/freezing point:	approx. 0 °C
Initial boiling point and boiling range:	approx. 100 °C
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: 1.0075 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
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
May be corrosive to metals.
10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts with ammonium compounds: Formation of ammonia.
Reacts with light metals: Formation of hydrogen.

10.4 Conditions to avoid
Protect from frost, heat and sunlight.

10.5 Incompatible materials
Acids, ammonium compounds

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):	Lack of data.
Acute toxicity (dermal):	Lack of data.
Acute toxicity (inhalative):	Lack of data.
Skin corrosion/irritation:	Skin Irrit. 2; H315 = Causes skin irritation.
Serious eye damage/irritation:	Eye Irrit. 2; H319 = Causes serious eye irritation.
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 (single exposure):	Lack of data.
Specific target organ toxicity (repeated exposure):	Lack of data.
Aspiration hazard:	Lack of data.
Endocrine disrupting properties:	No data available
Symptoms:	A corrosive effect cannot be ruled out because of the pH value. May cause respiratory irritation. In case of ingestion: Irritant up to corrosive. After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

12 Ecological information

12.1 Toxicity
Aquatic toxicity: Harmful effects on water organisms by modification of pH-value.
Water hazard class: 1 - Slightly hazardous to water

12.2 Persistence and degradability
Further details: Methods for the determination of biodegradability are not applicable to inorganic substances

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 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: UN 1824

14.2 UN proper shipping name
ADR/RID, IMDG, IATA, ANTT: UN 1824, SODIUM HYDROXIDE SOLUTION

14.3 Transport hazard class(es)
ADR/RID: Class 8, Code: C5
IMDG: Class 8, Subrisk -
IATA: Class 8
ANTT: Class 8

14.4 Risk Number
–

14.5 Packing group
ADR/RID, IMDG, IATA, ANTT: III

14.6 Environmental hazards
Dangerous for the environment: Substance/mixture is not environmentally hazardous according to regulations.
Marine pollutant: No

14.7 Special precautions for user
Land transport (ADR/RID)
Warning board: ADR/RID: Kemmler-number 80, UN number UN 3264
Hazard label: 8
Limited quantities: 5 L
EQ: E1
Package - Instructions: P001 IBC03 LP01 R001
Special provisions for packing together: MP19
Portable tanks - Instructions: T4
Portable tanks - Special Provisions: TP1
Tank coding: L4BN
Tunnel restriction code: E

Inland waterway craft (ADN)
Hazard label: 8
Limited quantities: 5 L
EQ: E1
Transport permitted: T
Equipment necessary: PP - EP

Sea transport (IMDG)
EmS: F-A, S-B
Special Provisions: 223
Limited quantities: 5 L

Excepted quantities:	E1
Package - Instructions:	P001, LP01
Package - Provisions:	-
IBC - Instructions:	IBC03
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T4
Tank instructions - Provisions:	TP1
Stowage and handling:	Category A.
Segregation:	SG35
Properties and observations:	Colourless liquid. Corrosive to aluminium, zinc and tin. Reacts with ammonium salts, evolving ammonia gas. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids.
Segregation group:	18

Air transport (IATA)

Hazard label:	Corrosive
Excepted Quantity Code:	E1
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y841 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft:	Pack.Instr. 852 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only:	Pack.Instr. 856 - Max. Net Qty/Pkg. 60 L
Special Provisions:	A3 A803
Emergency Response Guide-Code (ERG):	8L

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:
H290 = May be corrosive to metals.
H314 = Causes severe skin burns and eye damage.
H315 = Causes skin irritation.
H319 = Causes serious eye irritation.

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 / National Standards Forum
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
AS/NZS: Australian Standards/New Zealand Standards
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 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
Met. Corr.: Corrosive to metals
MS: Anvisa's Registry Code
NBR: Brazilian technical ordinance
OSHA: Occupational Safety and Health Administration
pH: Potential of Hydrogen
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
RDC: Resolution from the Directory Board
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RENACIAT: Rede Nacional de Centros de Informação e Assistência Toxicológica.
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Corr.: Skin corrosion
Skin Irrit.: Skin irritation
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
vPvB: Very persistent and very bioaccumulative

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

1.1 Product identifier
Trade Name: Creatinina Reagent R2
Article n°: 1030XXX
MS: 80115310205

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
H290 May be corrosive to metals.

2.2 Label elements
Labelling (GHS)

Signal word:	Warning	
Hazard statements:	H290	May be corrosive to metals.
Precautionary statements:	P234	Keep only in original packaging.
	P280	Wear protective gloves/protective clothing/eye protection
	P390	Absorb spillage to prevent material damage.

2.3 Other hazards
A corrosive effect cannot be ruled out because of the pH value.
Special danger of slipping by leaking/spilling product.
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:

Ingredient	Designation	Content	Classification
EC No. 201-865-9 CAS 88-89-1	Picric acid	< 1 %	Expl. 1.1; H201. Acute Tox. 3; H301. Acute Tox. 3; H311. Acute Tox. 3; H331.

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.

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical aid in case of troubles.

Following skin contact: Take off immediately all contaminated clothing and wash it before reuse.
Clean with plenty of water. If possible, also wash with polyethylene glycol 400. 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 seek the immediate attention of an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Do not try to neutralize. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

A corrosive effect cannot be ruled out because of the pH value. Can cause skin, eye, and respiratory tract irritation.
May be harmful if swallowed, in contact with skin or if inhaled.

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 the event of a fire, the following may be produced when the water evaporates: Nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters: In case of surrounding fires: Wear a self-contained breathing apparatus and chemical protective clothing.

6 Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Avoid contact with skin and eyes. Provide adequate ventilation. Do not breathe mist/vapours/spray.
Keep unprotected people away. Wear appropriate protective equipment.
Take off immediately all contaminated clothing and wash it before reuse.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up
Dilute with plenty of water.
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.
Special danger of slipping by leaking/spilling product.

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 mist/vapours/spray.
Avoid contact with skin and eyes. Wear appropriate protective equipment. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product. Take off immediately all contaminated clothing and wash it before reuse. 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.
Do not freeze. Keep away from heat.
Keep only in original container. Unsuitable materials: Metals

Hints on joint storage: Do not store together with 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	Type	Limit Value
88-89-1	Picric acid	Europe: IOELV: TWA	0,1 mg/m³
		Germany: TRGS 900 Kurzzeit	0,1 mg/m³ (Inhalable fraction; may be absorbed through the skin)
		Germany: TRGS 900 Langzeit	0,1 mg/m³ (Inhalable fraction; may be absorbed through the skin)

8.2 Exposure controls
Provide adequate ventilation, and local exhaust as needed.

Personal protection equipment
Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded.
Use filter type (A-P2/P3) according to EN 14387.

Hand protection: Protective gloves according to EN 374.

Glove material: Butyl caoutchouc (butyl 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 mist/vapours/spray. Avoid contact with skin and eyes. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product. Take off immediately all contaminated clothing and wash it before reuse. 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
Color:	yellow, clear
Odour:	no characteristic odour
Odour threshold:	No data available
pH:	at 25 °C: 1.7
Melting point/freezing point:	approx. 0 °C
Initial boiling point and boiling range:	approx. 100 °C
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: 1.0009 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
May be corrosive to metals.

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 against heat / sun rays.

10.5 Incompatible materials
Alkalis, metals

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 (single exposure):	Lack of data.
Specific target organ toxicity (repeated exposure):	Lack of data.
Aspiration hazard:	Lack of data.
Endocrine disrupting properties:	No data available
Other information:	The following applies to Picric acid in general: After resorption: Highly toxic (1 - 2 g compared to pure substance). Danger of cutaneous absorption.
Symptoms:	A corrosive effect cannot be ruled out because of the pH value. Can cause skin, eye and respiratory tract irritation. May be harmful if swallowed, in contact with skin or if inhaled. After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

12 Ecological information

12.1 Toxicity
Aquatic toxicity: Harmful effects on water organisms by modification of pH-value.
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 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:	UN 3265

14.2 UN proper shipping name

ADR/RID, IMDG, IATA, ANTT:	UN 3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Picric acid mixture)

14.3 Transport hazard class(es)

ADR/RID:	Class 8, Code: C3
IMDG:	Class 8, Subrisk -
IATA:	Class 8
ANTT:	Class 8

14.4 Risk Number

–

14.5 Packing group

ADR/RID, IMDG, IATA, ANTT:	III

14.6 Environmental hazards

Dangerous for the environment:	Substance/mixture is not environmentally hazardous according to regulations
Marine pollutant:	No

14.7 Special precautions for user

Land transport (ADR/RID)

Warning board:	ADR/RID: Kemmler-number 80, UN number UN 3265
Hazard label:	8
Special Provisions:	274
Limited quantities:	5 L
EQ:	E1
Package - Instructions:	P001 IBC03 LP01 R001
Special provisions for packing together:	MP19
Portable tanks - Instructions:	T7
Portable tanks - Special Provisions:	TP1 TP28
Tank coding:	L4BN
Tunnel restriction code:	E

Inland waterway craft (ADN)

Hazard label:	8
Special Provisions:	274
Limited quantities:	5 L
EQ:	E1
Transport permitted:	T
Equipment necessary:	PP - EP

Sea transport (IMDG)

EmS:	F-A, S-B
Special Provisions:	223 274
Limited quantities:	5 L

Excepted quantities:	E1
Package - Instructions:	P001, LP01
Package - Provisions:	-
IBC - Instructions:	IBC03
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T7
Tank instructions - Provisions:	TP1, TP28
Stowage and handling:	Category A. SW2
Segregation:	SG36 SG49
Properties and observations:	Causes burns to skin, eyes and mucous membranes.
Segregation group:	1

Air transport (IATA)

Hazard label:	Corrosive
Excepted Quantity Code:	E1
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y841 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft:	Pack.Instr. 852 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only:	Pack.Instr. 856 - Max. Net Qty/Pkg. 60 L
Special Provisions:	A3 A803
Emergency Response Guide-Code (ERG):	8L

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:
H201 = Explosive; mass explosion hazard.
H290 = May be corrosive to metals.
H301 = Toxic if swallowed.
H311 = Toxic in contact with skin.
H331 = Toxic if inhaled.

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
AS/NZS: Australian Standards/New Zealand Standards
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
Expl.: Explosives
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
Met. Corr.: Corrosive to metals
MS: Anvisa's Registry Code
NBR: Brazilian technical ordinance
OEL: Occupational Exposure Limit Value
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
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
WEL: Workplace Exposure Limit