

SAFETY DATA SHEET

(in accordance with NZ EPA regulations)

G0283.-kryoss

Version: 1

Revision date: 19/05/2021

Next review date: 19/05/2026



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SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: kryoss
Product Code: G0283.

1.2 Relevant identified uses of the mixture and uses advised against.

Agriculture – for professional use only.

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: **Sustainable Agro Solutions, S.A.U.**
Address: Ctra. N-240, Km.110
City: Almacelles
Province: Lleida
Telephone: 973 74 04 00
Fax: 973 74 14 89
E-mail: info@sas-agri.com
Web: www.sas-agri.com

1.4 Distributed by:

Company: **Seed & Field Services (SI) Ltd.**
Address: 17 Railway Terrace East
City: Rakaia
Country: New Zealand
Telephone: +64 3 302 7317

1.5 Emergency telephone number:

National Poisons Center (New Zealand): 0800 POISON (0800 764 766)

SECTION 2: HAZARDS IDENTIFICATION.

UN 2017: ST/SG/AC.10/30/Rev.7 (GHS)

Serious eye damage / eye irritation	Category 2	Causes serious eye irritation
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(HNSO 2017 Classifications: 6.4A)

Classified as hazardous according to the criteria of the Hazardous Substances (Hazard Classification) Notice 2020
HSR002571 – Fertilisers (Subsidiary Hazard) Group Standard 2020.

Not classified as dangerous goods by the criteria of the "New Zealand NZS5433:2012: Transport of Dangerous Goods on Land".

Pictogram



Signal Word
WARNING

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Hazard Statements:

Causes serious eye irritation

Prevention Statements:

Read label before use.

Wash exposed parts of body thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Response Statements:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do- continue rinsing.

IF eye irritation persists: Get medical advice/attention.

Storage Statements:

Disposal Statements:

Disposal of waste product and containers must be in accord with local bylaws and regulation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Chemical Nature:

Identifier	Name	Concentrate
CAS No: 590-29-4	potassium formate	10-30%

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

Eye contact.

If wearing contact lenses, remove them. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. **NEVER** use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. **NEVER** induce vomiting.

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

Causes serious eye irritation.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

SECTION 5: FIREFIGHTING MEASURES.

In case of fire the following measures should be taken:

5.1 Extinguishing media.

Recommended extinguishing methods.

Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray. Do not use a direct stream of water to extinguish.

5.2 Special hazards arising from the mixture.

Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

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5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

7.3 Specific end use(s).

Agricultural

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Exposure Standards

None established for this product.

Biological Limits

None allocated.

Engineering Controls

Use in a well-ventilated area. If an inhalation risk exists, use mechanical exhaust ventilation. Maintain dust level below the recommended exposure standard for nuisance dust.

PPE

Wear protective gloves/protective clothing/eye protection/face protection.

Respiratory protection:

Where an inhalation risk exists, use a Class P1 (particulate) respirator.

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Hand protection:

Chemical resistant protective gloves. Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374); e.g. nitrile rubber (0.4mm), chloroprene rubber (0.5mm), polyvinylchloride (0.7mm) and other.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered that the practical usage of a chemical-protective glove in practice may be shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Dust-proof goggles.

Body protection:

Coveralls.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Wearing of close work clothing is recommended. No eating, drinking, smoking or tobacco use at the place of work.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Liquid with characteristic odour and colour

Colour: Blue

Odour: Characteristic

Odour threshold: N.A./N.A.

pH: 7.5

Melting point: N.A./N.A.

Boiling Point: N.A./N.A.

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Flash point: >55°C
Evaporation rate: N.A./N.A.
Inflammability (solid, gas): N.A./N.A.
Lower Explosive Limit: N.A./N.A.
Upper Explosive Limit: N.A./N.A.
Vapour pressure: N.A./N.A.
Vapour density: N.A./N.A.
Relative density: 1.13
Solubility: N.A./N.A.
Liposolubility: N.A./N.A.
Hydrosolubility: N.A./N.A.
Partition coefficient (n-octanol/water): N.A./N.A.
Auto-ignition temperature: N.A./N.A.
Decomposition temperature: N.A./N.A.
Viscosity: N.A./N.A.
Explosive properties: N.A./N.A.
Oxidizing properties: N.A./N.A.
N.A./N.A. = Not Available/Not Applicable due to the nature of the product

9.2. Other information.

Dropping point: N.A./N.A.
Blink: N.A./N.A.
Kinematic viscosity: N.A./N.A.
N.A./N.A. = Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see Section 7).

10.3 Possibility of hazardous reactions.

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid.

Avoid improper handling.

10.5 Incompatible materials.

Keep away from oxidizing agents and from highly flammable alkaline and acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products.

No decomposition if used for the intended purposes.

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on toxicological effects.

There are no tested data available on the product.

a) acute toxicity;
Not conclusive data for classification.

b) skin corrosion/irritation;
Not conclusive data for classification

c) serious eye damage/irritation;
Product classified:
Serious eye damage, Category 2: Causes serious eye irritation.

d) respiratory or skin sensitisation;
Not conclusive data for classification.

e) germ cell mutagenicity;

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Not conclusive data for classification.

f) carcinogenicity;
Not conclusive data for classification.

g) reproductive toxicity;
Not conclusive data for classification.

h) STOT-single exposure;
Not conclusive data for classification.

i) STOT-repeated exposure;
Not conclusive data for classification.

j) aspiration hazard;
Not conclusive data for classification.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

No information is available regarding the ecotoxicity of the substances present.

12.2 Persistence and degradability.

No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

No information is available regarding the bioaccumulation of the substances present.

12.4 Mobility in soil.

No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

SECTION 13 DISPOSAL CONSIDERATIONS.

Appropriate and achievable disposal methods, including for packaging must be consistent with the Act and the Disposal Notice and must include special precautions to be taken during disposal and any method of disposal that should not be used.

Disposal Methods

Dispose of at an approved waste site. Refer to waste management authority.

Legislation

Dispose of in accordance with relevant local legislation. Contact a specialist waste company or local regulator for advice.

SECTION 14: TRANSPORT INFORMATION.

Road and Rail Transport:

Not classified as dangerous goods by the criteria of the "New Zealand NZS5433:2012: Transport of Dangerous Goods on Land".

Sea Transport

IMDG: Not classified as dangerous goods under transport regulations.

Air Transport

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IATA/ICAO: Not classified as dangerous goods under transport regulations referring to the finished product.

SECTION 15: REGULATORY INFORMATION.

Classified as hazardous according to the criteria of the Hazardous Substances (Classification) Notice 2020
HSR002571 – Fertilisers (Subsidiary Hazard) Group Standard 2020.

SECTION 16: OTHER INFORMATION.

Additional Information

This SDS was prepared on 19/05/2021 and is version 1.

Date for Next Review of SDS: 19/05/2026

Key/Legend / Abbreviations (when used)

BCF: Bioconcentration factor.

CEN: European Committee for Standardization.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

EC50: Half maximal effective concentration.

PPE: Personal protection equipment.

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

Log Pow: Logarithm of the partition octanol-water.

NOEC: No observed effect concentration.

Report Status

This document is based on the best available information on the date of issue and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for this product. While all due care has been taken to include accurate and up-to-date information, no warranty as to accuracy or completeness is provided. As far as lawfully possible, Sustainable Agro Solutions S.A. accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of reliance on the information contained in this Safety Data Sheet.

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