



SAFETY DATA SHEET

prepared in accordance with Article 31 of Regulation (EC) No 1907/2006 (REACH)
and Regulation (EU) No. 2015/830

Edition
1.0

Date of issue
02.01.2019

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

1.1. Product identifier

Trade name: SALIFORT

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

1.2.1. Relevant identified uses

The phosphorus-potassium foliar fertilizer used in horticulture and agriculture.

1.2.2. Uses advised against

None.

1.3. Details of the supplier of the safety data sheet

ICB Pharma Tomasz Świętosławski, Paweł Świętosławski Spółka Jawna

Address: Moździerzowców 6a, 43-602 Jaworzno, Poland

Phone: +48 32 745 47 00

e-mail: office@icbpharma.com

Person responsible for SDS: e-mail: grzegorz.zmijowski@icbpharma.com

1.4. Emergency telephone number:

112 – emergency number

+48 32 745 47 00 (at working hours: 8.00 a.m. – 4 p.m.) – manufacturer number

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

According to the Regulation (EC) No 1272/2008:

Product is classified as hazardous

Skin Irrit. 2 H315 Causes skin irritation

Eye Irrit. 2 H319 Causes serious eye irritation

STOT SE 3 H335 May cause respiratory irritation.

Physico-chemical hazards: none

Health hazards: causes skin and eye irritation

Environmental hazards: none

2.2. Label elements

According to the Regulation (WE) 1272/2008:

Pictograms:



Signal Word:

WARNING

Hazard statements:

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation.

Precautionary statement:

P101 If medical advice is needed, have product container or label at hand.

P261 Avoid breathing dust

P280 Wear protective gloves/protective clothing/eye protection/face protection.



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P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Labelling of packages < 125 ml:

Pictograms:



Signal Word:
WARNING

Hazard statements:

H335 May cause respiratory irritation.

Precautionary statement:

P261 Avoid breathing dust

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

Product does not meet PBT or vPvB criteria according to XIII of REACH regulation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Product is a mixture.

Name	CAS EC Index No REACH Registration No	Content % w/w	CLP classification
Potassium carbonate	584-08-7 209-529-3 - 01-2119532646-36-0009	25<-<50	Skin Irrit. 2, H315 Eye Irrit., 2, H319 STOT SE 3, H335

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General recommendations

The first step is to remove the injured person from a polluted environment. Take off any contaminated clothing. Never give anything by mouth to an unconscious person. In case of health problems, immediately contact doctor, show MSDS of product.

Contamination of the skin:

Immediately wash with water and soap, rinse thoroughly. In case of persistent skin irritation get medical advice. Take off contaminated clothing and shoes.



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Contamination of the eyes:

Immediately flush contaminated eyes with wide-open eyelids a continuous, gentle stream of water for at least 10 minutes. Remove contact lenses if possible and continue rinsing. Immediately contact with the ophthalmologist.

Inhalation:

Remove the victim from area of contamination. Provide fresh air and keep warm. Get medical help in case of any health problems.

Ingestion:

After ingestion rinse mouth with water, drink water. In case of feeling unwell get medical help.

Protection of personnel providing first aid:

Do not take any action which may pose a risk to first-aider unless adequately trained and aware of risks.

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

Acute symptoms – skin: irritation, redness, rash, pruritus; eyes: burning, redness, tearing lachrymation; after ingestion: nausea, abdominal pain; inhalation: respiratory irritation, cough, sore throat

Delayed symptoms – no data

Effects of exposure – no data

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

Note to Physician: No specific antidote, treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

All media are suitable.

Unsuitable extinguishing media:

Get surrounding material into consideration for suitability of extinguishing media. Do not use water jets.

5.2. Special hazards arising from the substance or mixture

Product is not flammable. During fire there is a risk of dangerous decomposition products and toxic gases.

5.3. Advice for fire-fighters

Apply the breathing apparatus and full protective clothing for firefighting. Vapours released during fire cover with water mist.

General: Remove from the endangered area all unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Evacuate all personnel from contaminated area. Provide adequate ventilation or provide suitable mask. Do not breath mist/aerosol of the product. Use appropriate personal protection measures.

For emergency responders:

Follow instructions, use appropriate personal protection measures.

6.2. Environmental precautions

Avoid entering drains, groundwater, soil and open water courses.



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6.3. Methods and material for containment and cleaning up

Collect dry. For disposal. Avoid raising dust. Rinse the remains with water.

6.4. Reference to other sections

Personal protective equipment – section 8

Waste disposal – section 13

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Ensure adequate ventilation, especially in confined areas. Protect from direct sunlight. Keep away from heat. Use only as intended.

Industrial hygiene:

- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- use general caution while working with chemical substances

Specific measures against fire and explosion.

No specific requirements.

7.2. Conditions for safe storage, including any incompatibilities.

Store in dry rooms in closed and properly labelled containers. Keep away from children. Avoid contact with food and feeding stuff.

7.3. Specific end use(s)

See section 1.2.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational Exposure Limit Value:

There are exposure standards allocated to components of this product in several countries:

Potassium carbonate (CAS: 584-08-7). Mandatory check TLV's provided for particular country.

DNELs (Derived No Effect Levels) available for mixture components:

Potassium carbonate (CAS: 584-08-7)

Exposure route	WORKERS				GENERAL POPULATION			
	Systemic Effects		Local Effects		Systemic Effects		Local Effects	
	Long-term	Acute	Long-term	Acute	Long-term	Acute	Long-term	Acute
INHALATION	n.d.	n.d.	1 mg/m ³	n.d.	n.d.	n.d.	1 mg/m ³	n.d.
DERMAL	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
ORAL	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
EYE								

n. i. r. – no identified risks

n. d. – no data

8.2. Exposure controls

Technical exposure controls:

Mechanical general or local ventilation.

Personal protection measures

The need of use and selection of appropriate personal protective equipment should depend on type of threat posed by the product, workplace conditions and handling of the product. Use protective equipment from reputable manufacturers.



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Respiratory protection

Is not necessary under normal conditions with sufficient ventilation or outdoor. Required during exposure to high concentrations of vapours/mist/aerosol. Wear mask or respirator completed with the filter type K or better.

Hand protection

Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can't be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (colour, flexibility, shape)

Eye protection

Protective glasses (recommended)

Skin protection

Protective clothing

Protective equipment standards:

EN 140:2001 Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking

EN 143:2004 Respiratory protective devices - Particle filters - Requirements, testing, marking

EN 149+A1:2010 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking

EN 14387+A1:2010 Respiratory protective devices - Gas filter(s) and combined filter(s) - Requirements, testing, marking

EN 374-1:2005 Protective gloves against dangerous chemicals and micro-organisms -- Part 1: Terminology and performance requirements for chemical risks

EN 374-2:2005 Protective gloves against chemicals and micro-organisms - Part 2: Determination of resistance to penetration

EN 374-3:2005 Protective gloves against chemicals and micro-organisms -- Part 2: Determination of resistance to permeation by chemicals

EN 166:2005 Personal eye protection. Specifications

EN 14605+A1:2010 Protective clothing against liquid chemicals. Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])

Environmental exposure controls:

Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

PNECs (Predicted No Effect Concentrations) for mixture components:

Potassium carbonate (CAS: 584-08-7)

Environment compartment	PNEC
Freshwater	n.d.
Intermittent releases (freshwater)	n.d.
Marine water	n.d.
Intermittent releases (marine water)	n.d.
Sewage treatment plant	n.d.
Sediment (freshwater)	n.d.
Sediment (marine water)	n.d.
Air	n.d.
Soil	n.d.
Hazard for Predators	n.d.

n. d. – no data



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Coarse greenish powder
Odour:	Characteristic
Odour threshold:	Not applicable
pH:	9,11
Melting point/freezing point:	No data
Initial boiling point and boiling range:	No data
Flash point:	No data
Evaporation rate:	No data
Flammability:	Not applicable
Upper/lower flammability or explosive limits:	Not applicable
Vapour pressure:	No data
Vapour density:	No data
Relative density (20°C):	No data
Solubility in water:	Soluble
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data
Explosive properties:	None, no explosive ingredients
Oxidising properties:	None, no oxidizing ingredients

9.2. Other information

No data

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

No data

10.2. Chemical stability:

Product is stable under normal conditions.

10.3. Possibility of hazardous reactions:

Possible in contact with strong oxidizers

10.4. Conditions to avoid:

Moisture

10.5. Incompatible materials:

Strong oxidizers

10.6. Hazardous decomposition products:

Hazardous decomposition products may be developed under thermal decomposition (fire)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Product was not tested for toxicological properties. Hazard classification was conducted by calculation methods based on hazardous ingredients content.

Acute toxicity:

Acute Oral Toxicity: product does not meet criteria for classification, $ATE_{mix} > 2000$ mg/kg



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Acute Dermal Toxicity: product does not meet criteria for classification, $ATE_{mix} > 2000$ mg/kg

Acute Inhalation Toxicity: product does not meet criteria for classification, $ATE_{mix} > 5$ mg/kg

Skin corrosion/irritation:

Product classified as causing skin irritation

Serious eye damage/irritation:

Product classified as causing serious eye irritation

Respiratory or skin sensitisation:

product does not meet criteria for classification

Germ cell mutagenicity:

product does not contain any compounds with germ cell mutagenicity hazard

Carcinogenicity:

product does not contain any compounds with carcinogenic hazard

Reproductive toxicity:

product does not contain any compounds with reprotoxic hazard

STOT-single exposure:

Product may cause respiratory irritation

STOT-repeated exposure:

product does not meet criteria for classification

Aspiration hazard:

product does not meet criteria for classification

Potential health hazards:

Ingestion: nausea, abdominal pain,

Inhalation: cough, sore throat, irritation of the respiratory tract

Skin: irritating effect, possible allergic reaction, redness, rash, pruritus

Eyes: irritating effect, redness, tearing

Available toxicological data for components of the product:

Pottasium carbonate (CAS: 584-08-7)

Acute Oral Toxicity: $LD_{50} > 2000$ mg/kg m.c. (rat)

Acute Dermal Toxicity: $LD_{50} > 2000$ mg/kg m.c. (rabbit)

Acute Inhalation Toxicity: $LD_{50} > 4960$ mg/m³ (rat)

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Product was not tested for environment hazards. According to regulation 1272/2008 product is not classified as hazardous to environment.

12.2. Persistence and degradability:

No information available.

12.3. Bioaccumulative potential:

No information available.

12.4. Mobility in soil:

No information available.

12.5. Results of PBT and vPvB assessment:

Not applicable.

12.6. Other adverse effects:

No information available.

Available ecotoxicological data for components of the product:

Pottasium carbonate (CAS: 584-08-7)

Acute Toxicity to fish: LC_{50} 68 mg/l (96h), *Pimephales promelas*



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Acute Toxicity to aquatic invertebrates: EC₅₀ 430 mg/l (48h), *Daphnia magna*
EC₅₀ 200 mg/l (48h), *Daphnia pulex*

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

Waste from residues/unused products:

Avoid product waste. Residues of the product should be treated as hazardous waste. The level of hazardousness of waste containing this product should be assessed in accordance with applicable regulations. Disposal should be made through a company authorized to dispose of hazardous waste, in accordance with national and local regulations. Do not remove to sewage, water, soil.

Suggested waste code: 06 10 02* Wastes containing dangerous substances

Disposing of the packaging:

Completely emptied product packaging can be treated as municipal waste and recycled.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number: ADR, IATA DGR, IMDG Code	Not applicable
14.2. UN proper shipping name: ADR, IATA DGR, IMDG Code	Not applicable
14.3. Transport hazard class(es): ADR, IATA DGR, IMDG Code	Not applicable
14.4. Packing group: ADR, IATA DGR, IMDG Code	Not applicable
14.5. Environmental hazards:	Not applicable
14.6. Special precautions for user: ADR, IATA DGR, IMDG Code	Not applicable
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- European agreement concerning international road transport of dangerous products (ADR)
- *Federal, State and Local regulations.*

15.2. Chemical safety assessment

Chemical safety assessment was not conducted for the product

SECTION 16. OTHER INFORMATION

Explanation of abbreviations and acronyms used in the MSDS:

Skin Irrit. 2 H315 Causes skin irritation



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Eye Irrit. 2 H319 Causes serious eye irritation
STOT SE 3 H335 May cause respiratory irritation.

CAS – Chemical Abstracts Service

EINECS – Number assigned to a substance in the European Inventory of Existing Commercial Chemical Substances

PBT – persistence, bioaccumulation potential and toxicity

vPvB – very high durability and very bioaccumulative

TLV – threshold limit value in the workplace

STEL – short term exposure limits maximum of a substance harmful to health in the workplace

ATE_{mix} – acute toxicity estimate for mixture

LD₅₀ – Lethal Dose, 50%

LC₅₀ – Lethal Concentration, 50%

EC₅₀ – Effect Concentration 50%

UN number – identification number of the material (the number of UN, UN number)

ADR – European Agreement concerning the international carriage of dangerous goods by road

IMDG – International Maritime Dangerous Goods Code

This SDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of the product was based on the content of ingredients and according to Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Recommendation and restriction of use: Use according to label. Additional safety information available at manufacturer.

Source of data: this MSDS was prepared based on MSDS of ingredients, physico-chemical data for the product, our knowledge and experience according to actual legislation.

ECHA

C&L Inventory

Disclaimer: information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. End user is responsible for inappropriate use of information enclosed in SDS or inappropriate use of product.