

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 1/9

Publication: 19/09/2022

Revision: XX/XX/XXXX

Version: 00



KALII IODIDUM

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

1.1 Product identifier

Product name:	Potassium iodide Kalii iodidum Kaliumjodide Potassium (iodure de) Kaliumiodid
N° CAS:	7681-11-0
N° EC:	231-659-4

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

Identified uses:	Active Pharmaceutical Ingredient or Excipient.
------------------	--

1.3 Details of the supplier of the safety data sheet

Company:	FAC SECUNDUM ARTEM NV Oostmalsebaan 1c (unit 5) 2960 Sint-Lenaarts Belgium
Telephone:	(+32) (0)3 457 11 76
Email:	info@magis-pharma.be
Web page:	www.magis-pharma.be

1.4 Emergency telephone number

Public utility foundation:	Belgisch Antigifcentrum	Centre Antipoisons Belge
Telephone:	(+32) (0)70 245 245	(Service 24/7)
Web page:	www.antigifcentrum.be	www.centreantipoisons.be

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture

Classification according to (EC) n° 1272/2008

Acute Tox. 4	H302
Skin Irrit. 2	H315
Eye Irrit. 2	H319

2.2 Label elements

Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): Attention

Hazard statements:

H302 Harmful if swallowed.

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 2/9

Publication: 19/09/2022

Revision: XX/XX/XXXX

Version: 00



KALII IODIDUM

H315	Causes skin irritation.
H319	Causes serious eye irritation.
Precautionary statements:	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
Additional applicable label elements:	Not applicable.

2.3 Other hazards

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product name:	Potassium iodide
IUPAC name:	Potassium;iodide
Synonyms:	Kali iodide Knollide
N° CAS:	7681-11-0
N° EC:	231-659-4
Molecular Formula:	KI
Content:	99.0 per cent to 100.5 per cent (dried substance)

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes:	Consult a physician. Show this safety data sheet to the doctor in charge.
After inhalation:	If inhaled, move the victim to fresh air. If breathing has stopped, give artificial respiration. Consult a physician.
After skin contact:	Wash with soap and plenty of water. Consult a physician.
After eye contact:	Flush thoroughly with water for at least 15 minutes and seek medical advice.
After ingestion:	Never let an unconscious person drink (or eat). Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The main known symptoms and effects are described on the label (see section 2.2) and/or section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Not available.

SECTION 5: FIREFIGHTING MEASURES

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 3/9

Publication: 19/09/2022

Revision: XX/XX/XXXX

Version: 00



KALII IODIDUM

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing agents that are suitable for the local conditions and environment.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance/mixture

Hydrogen iodide, potassium oxides.

5.3 Advice for firefighters

Surrounding fires: The product itself does not burn.

Protection against fire: If necessary, wear a compressed air mask when fighting a fire.

Hazardous combustion products: Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours/mist/gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection, see section 8.

For emergency responders

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours/mist/gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection, see section 8.

6.2 Environmental precautions

Do not allow product to reach sewage system.

6.3 Methods and material for containment and cleaning up

Pick up and remove without creating dust. Sweep up and scoop out. Store in suitable closed containers for disposal.

6.4 Reference to other sections

For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling: Avoid contact with eyes and skin. Avoid formation of dust and aerosols. For precautionary measures, see section 2.2.

Personal protection: Not available.

Technical protective measures: Provide adequate exhaust ventilation in dusty areas.

Handling: Not available.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Not available.

Conditions for safe storage, including any incompatibilities: Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Sensitive to air, light and moisture. Store under inert gas.

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 4/9

Publication: 19/09/2022

Revision: XX/XX/XXXX

Version: 00



KALII IODIDUM

Storage – away from:

Protected from light.

7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

The product does not contain any components for which MAC values have been established.

8.2 Exposure controls

Appropriate engineering control

Use according to established rules and practices regarding industrial hygiene and safety. Wash hands before breaks and at the end of the working day.

Individual protection measures

Eye/face protection: Safety goggles with side shields according to EN 166. Use face and/or eye protection tested and approved by official institutions such as NIOSH (US) or EN166 (EU).

Skin protection: Full body suit for protection against chemicals. The type of protective equipment depends on the concentration and quantity of hazardous substances at the workplace in question.

Hand protection: Handle with gloves. Check gloves thoroughly before use. Remove gloves neatly without touching the outside with the bare hand. Dispose of used gloves immediately in accordance with applicable laboratory regulations. Wash and dry hands.
The protective gloves selected must comply with the specifications of EU Directive 89/686/EEC and its derived standard En 374.

Full contact:

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Breakthrough time: 480 min

Splash contact:

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Breakthrough time: 480 min

When used in solution, or mixed with other ingredients, or under conditions other than those specified in According to EN 374, please contact the supplier of the gloves approved according to EC Directives first. approved gloves. This recommendation is only an advice and should be evaluated by an occupational health evaluated by an occupational hygienist or safety expert who is familiar with the specific situation and situation and use by our customers. It should not be seen as direct approval for every every specific usage scenario.

Respiratory protection:

In case of nuisance exposure, use type P95 (US) or P1 (EU EN 143) dust masks. For a higher degree of protection, use type OV/AG/P99 (US) or ABEK-P2 (EU EN 143) gas masks.

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 5/9

Publication: 19/09/2022

Revision: XX/XX/XXXX

Version: 00



KALII IODIDUM

Use respiratory masks tested and approved by official government agencies such as NIOSH (US) or CEN (EU).

Thermal hazards: Not determined.

Environmental exposure control

Do not allow product to reach sewage system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	White or almost white powder or colourless crystals.
Odour:	Not available.
Odour threshold:	Not available.
pH:	6.0 - 9 at 166 g/L (25 °C)
Melting/freezing point:	681 °C
Initial boiling point:	1 330 °C
Boiling range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability (solid/gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	1 hPa (745 °C)
Vapour density:	Not available.
Relative density:	3.130 g/cm ³
Solubility:	Freely soluble in glycerol, soluble in ethanol (96 per cent).
Solubility in water:	Very soluble in water.
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not available.
Oxidising properties:	Not available.

9.2 Other information

Bulk density: 1 700 kg/m³

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not available.

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 6/9

Publication: 19/09/2022

Revision: XX/XX/XXXX

Version: 00



KALII IODIDUM

10.2 Chemical stability

May decompose on exposure to air and moisture.
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Not available.

10.4 Conditions to avoid

Tin/tin oxides.

10.5 Incompatible materials

Strong reducing agents, nickel, strong acids, and their alloys, steel (all types and surface treatments), aluminium, alkali metals, brass, magnesium, zinc, cadmium, copper.

10.6 Hazardous decomposition products

In case of fire: see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Oral LD ₅₀ (mouse): 1 000 mg/kg
Skin corrosion/irritation:	Skin – rabbit Result: irritating to skin.
Serious eye damage/irritation:	Eyes – rabbit Result: irritating to eyes (24h) (Draize test)
Respiratory/skin sensitisation:	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
Germ cell mutagenicity:	Not available.
Carcinogenicity:	IARC: No component of this product, when present in a concentration greater than or equal to 0.1%, has been identified as a probable, possible or confirmed carcinogen by IARC.
Reproductive toxicity:	Exposure to excessive amounts of iodine during pregnancy can cause foetal hypothyroidism. Medicines containing iodine are associated with foetal goitre.
Summary of evaluation of the CMR properties:	Not available.
STOT-single exposure:	Not available.
STOT-repeated exposure:	Not available.
Aspiration Hazard:	Not available.
Other:	RTECS: TT2975000 Prolonged exposure to iodides may cause iodism in sensitive individuals. Symptoms of exposure include: skin rash, runny nose, headache and irritation of the mucous membranes. In severe cases, the skin may show pustules, boils, blisters and black and blue spots. Iodides penetrate easily through the placenta. Neonatal death from respiratory failure caused by goitre has been reported in the literature. Iodides have been known to cause drug-induced fever, which is usually short-lived.

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 7/9

Publication: 19/09/2022

Revision: XX/XX/XXXX

Version: 00



KALII IODIDUM

Liver - Irregularities - Derived from human test data

11.2 Additional information on potential adverse human health effects and symptoms

Eye contact:	Causes serious eye irritation.
Skin contact:	Causes skin irritation.
Inhalation:	Not available.
Ingestion:	Harmful if swallowed.
Aspiration:	Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Fish toxicity: LC50, *Oncorhynchus mykiss* (rainbow trout): 2 190 mg/L (96 h)

Toxicity to daphnia and other aquatic invertebrates: EC50, *Daphnia* (Water fly): 2.7 mg/L (24 h)

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Take residues and non-reusable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

Transport information according to ADR/RID/IMDG/ICAO/IATA

14.1 UN Number

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not classified.

14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not dangerous goods

14.3 Transport hazard class(es)

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 8/9

Publication: 19/09/2022

Revision: XX/XX/XXXX

Version: 00



KALII IODIDUM

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not classified.

14.4 Packing group

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not classified.

14.5 Environmental hazards

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : No
Marine pollutant: no.

14.6 Special precautions for user

Not available.

14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not available.

14.8 Additional transport information

Not available.

SECTION 15: REGULATORY INFORMATION

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

Hazard symbol:



Risk phrases:

Irritant, harmful
R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.

Safety phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

16.1 Changes since the previous version

Not applicable.

16.2 Abbreviations and acronyms used

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstracts Service (division of the American Chemical Society)
EC (number): European Community (number)
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 9/9

Publication: 19/09/2022

Revision: XX/XX/XXXX

Version: 00



KALII IODIDUM

IMDG:	International Maritime Code for Dangerous Goods
IUPAC:	International Union of Pure and Applied Chemistry
PBT:	Persistent, Bioaccumulative and Toxic substance
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT:	Specific Target Organ Toxicity
UN (number):	United Nations (number)
vPvB:	very Persistent and very Bioaccumulative

16.3 Key literature references/sources for data

European Chemicals Agency.

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

16.4 Method of classification in case of mixture

Not applicable.

16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

16.6 Training advisement

Not available

16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information has been compiled from sources considered to be dependable and is accurate to the best of the FSA NV's knowledge. However, the information is provided without any representation or warranty, expressed or implied regarding its accuracy or correctness. FSA NV cannot assume responsibility for adverse events which may occur in the use and/or misuse of this product and expressly disclaims liability for loss, damage and/or expense arising out of or in any way connected with the handling, storage, use and/or disposal of this product.

16.8 Department issuing MSDS

Quality Department

FAC SECUNDUM ARTEM NV

info@magis-pharma.be