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MATERIAL SAFETY DATA SHEET

Potassium Iodide

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers :
Product name : Potassium Iodide
Product number : 0007681110
Brand : Discovery
Reach No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require registration or the registration is envisaged for a later Registration deadline.
Cas No. : 7681-11-0

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses : laboratory chemicals, manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company:	Discovery Fine Chemicals Ltd Unit 4A, Old Forge Road, Ferndown Ind. Estate, Wimborne, Dorset, BH21 7RR. United Kingdom
Telephone:	+44 (0)1202 874517
Fax:	+44 (0)845 0944 385
E-mail:	discovery@discofinechem.com

1.4 Emergency telephone : +44 (0)7912 646956

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567
Acute Toxicity (Category 4) H302
Skin irritation (Category 2) H315
Eye irritation (Category 2) H319
Specific target organ toxicity repeated exposure, Thyroid (Category 1), H372
For the full text of the H-Statements mentioned in this section see section 16
Classification according to EU Directives 67/548/EEC or 1999/45/EC
2.2 Label elements
Labelling according Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567
Pictogram

Signal word: Danger
Hazard statement(s)
H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H372 Cause damage to organs (thyroid) through prolonged or repeated exposure if swallowed
Precautionary statement(s)
P260 Do not breathe dust

P264 Wash skin thoroughly after handling
P270 Do not eat,drink or smoke when using this product
P314 Get medical advice if you feel unwell
P501 Dispose of contents to an approved waste disposal plant
Supplemental hazard : none

2.3 Other hazards

This substance/mixture contains no components considered to be either 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

Formula: IK
Molecular Weight: 166 g/mol
Cas No: 7681-11-0

Component	Classification	Concentration
Potassium Iodide CAS-No. 7681-11-0	ACUTE TOX.1, SKIN IRRIT 2, EYE IRRIT 2,STOT RE 1 H302, H315, H319, H372	<=100%

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a doctor. Show this safety data sheet to the doctor in attendance.
If inhaled - If breathed in, move person into fresh air. Call a doctor.
In case of skin contact – remove all contaminated clothing**.** Rinse skin with water.
In case of eye contact – Flush eyes with water as a precaution.
If swallowed – make victim drink water. 2 glasses at most. Consult a doctor.
4.2 Most important symptoms and effects, both acute and delayed – the most important known symptoms and effects are described in the labelling (see section 2.2 and/or in section 11.
4.3 Indication of any immediate medical attention and special treatment needed
no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media – Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media – for this substance no limitations of extinguishing agents are given.
5.2 Special hazards arising from the substance or mixture
Hydrogen iodide
Potassium iodides
Not combustible
Ambient fire may liberate hazardous vapours.
5.3 Advice for firefighters – stay in danger area only with wear self-contained breathing apparatus. Prevent skin contact by keeping a safe distance.
5.4 Further information – suppress knock down gases, vapours or mist with a water spray jet.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas.
Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.
6.2 Environmental precautions – Do not let product enter drains.
6.3 Methods and materials for containment and cleaning up – Cover drains**.** pick up and arrange disposal without creating dust. sweep and shovel up.
6.4 Reference to other sections - For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

For precautions see section 2.2

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store in a cool place.
Keep locked in an area only accessible to qualified staff.
Storage class (TRGS 510) : 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials which cause chronic affects.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.1 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls - Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection - Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection - Handle with gloves. Gloves must be inspected prior to use.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 740 Dermatril®
Splash protection
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril®

Body Protection – protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection –Required when dusts are generated**.** Our recommendations are as follows : use filter type 2 based on standard type (DIN EN 143) particle respirator.

Control of environment exposure

Do not let product enter drains

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
a) Appearance - Form: powder, white to off white
b) Odour - no data available
c) Odour Threshold - no data available
d) Melting point/freezing point - Melting point/range: no data available
e) Initial boiling point and boiling range - no data available
f) Flammability (solid, gas) - no data available
g) Upper/lower flammability or explosive limits - no data available
h) Flash point – not applicable
i) Autoignition temperature - no data available
j) Decomposition temperature - no data avaialble
k) pH no data available
l) Viscosity – viscosity,kinematic: no data available
- viscosity dynamic: no data available
m) Water solubility – no data available
n) Partition coefficient: no data available
o) Vapour pressure - no data available
p) Density - no data available
Relative density – no data available
q) Relative vapour density - no data available
r) Particle characteristics - no data available

s) Explosive properties – no data available
t) Oxidizing properties - no data available
9.2 Other safety information - no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
The following applies in general to flammable organic substances and mixtures : in correspondingly fine distribution, when whirled up a dust explosion may generally be assumed
10.2 Chemical stability
The product is chemically stable under recommended storage conditions
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Tin/tin oxides
10.5 Incompatible materials
No data available
10.6 Hazardous decomposition products
In the event of fire see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity
Oral – no data available
Inhalation – no data available
Dermal – rat - > 2,000 mg/kg
Skin corrosion/irritation - no data available
Serious eye damage/eye irritation
no data available
Respiratory or skin sensitization
No data available.
Germ cell mutagenicity
No data available
Carcinogenicity
No data available
Reproductive toxicity
Exposure to excessive amounts of iodine during pregnancy can produce foetal hypothyroidism. Iodine-containing drugs have been associated with foetal goiter.
Specific target organ toxicity - single exposure
No data available
Specific target organ toxicity - repeated exposure
Ingestion - Causes damage to organs through prolonged or repeated exposure. - Thyroid
Aspiration hazard
No data available

11.2 Additional Information
RTECS: TT2975000
Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration.
After absorption of toxic quantities: drop in blood pressure, paralysis symptoms, agitation and vomiting. The following applies to iodides in general: Sensitisation possible in predisposed persons. Other dangerous properties cannot be excluded.
To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated
Endocrine disrupting properties
assessment
the substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH article 57(f) or commission delegated regulation (EU) 2017/2100 or commission regulation (EU) 2018/605 at levels of 0.1% or higher.

12. ECOLOGICAL INFORMATION

12.1 Toxicity – Toxicity to fish - static test LC50 - Oncorhynchus mykiss (rainbow trout) - 3,780 mg/l - 96 h (OECD Test Guideline 203)
12.2 Persistence and degradability - no data available
12.3 Bio-accumulative potential - no data available
12.4 Mobility in soil - no data available
12.5 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT),or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting properties
the substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH article 57(f) or commission delegated regulation (EU) 2017/2100 or commission regulation (EU) 2018/605 at levels of 0.1% or higher
12.7 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Product
Waste material must be disposed of in accordance with national regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. Notice directive on waste 2008/98/EC

14. TRANSPORT INFORMATION

14.1 UN number
ADR/RID: - IMDG: - IATA: -
14.2 UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
14.3 Transport hazard class(es)
ADR/RID: - IMDG: - IATA: -
14.4 Packaging group
ADR/RID: - IMDG: - IATA: -
14.5 Environmental hazards
ADR/RID: no IMDG Marine Pollutant: no IATA: no
14.6 Special precautions for user
Further Information
Not classified as dangerous in the meaning of transport regulations

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Other regulations
Take note of DIR 94/33/EC on the protection of young people at work
15.2 Chemical Safety Assessment –
For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Text of H-code(s) and R-phrase(s) mentioned in Section 2 and 3
Hazard statement(s)
H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H372 Cause damage to organs (thyroid) through prolonged or repeated exposure if swallowed
Precautionary statement(s)
P260 Do not breathe dust
P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P314 Get medical advice if you feel unwell

P501 Dispose of contents to an approved waste disposal plant

Further information
WARRANTY
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product.

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APPENDIX
ABBREVIATIONS FULL TEXT

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
ALARP As low as is reasonably practicable
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging Regulations
COSHH Control of Substances Hazardous to Health EC Number European Community Number
EC50 Effective Concentration 50%
ECHA European Chemicals Agency
ELINCS European List of Notified Chemical Substances
EINECS European Inventory of Existing Commercial Chemical Substances GHS Globally Harmonised System HSE Health & Safety Executive UK
IATA International Air Transport Association
IM Intramuscular
IMDG The International Maritime Dangerous Goods Code
IP Intraperitoneal
IV Intravascular
LD50 Lethal Dose 50%
LOEC Lowest Observable Effective Concentration
LTEL Long Term Exposure Limit
NOEC No Observable Effective Concentration
OECD Organisation for Economic Cooperations and Development
OSHA European Agency for Safety and Health at work
PBT Persistent Bioaccumulative and Toxic substance
PPE Personal Protective Equipment
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
RID Regulations Concerning the International Carriage of Dangerous Goods by Rail
SC Subcutaneous
SDS Safety Data Sheet
SIEF Substance Information Exchange Forum
STEL Short Term Exposure Limit
STOT (RE) Specific Target Organ Toxicity – repeated exposure
STOT (SE) Specific Target Organ Toxicity – single exposure
SVHC Substance of Very High Concern
VOC Volatile Organic Compounds
vPvB Very Persistent and Very Bioaccumulative
WEL Workplace Exposure Limits