Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.07.2013 Revision: 14.06.2012

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

1.1 Product identifier

Potassium iodate

Trade name Stock number: CAS Number: A16162 7758-05-6

EC number: 231-831-9

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

Sil24 Scientific research and developr Scientific research and development

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG A Johnson Matthey Company Zeppelinstr. 7b

Zeppelinsti. 7b 76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com

Informing department:

www.alfa.com
www.alfa.com
product safety Tel + +049 (0) 7275 988687-0
Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number)
Poison Information Center Mainz
www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240 1.4 Emergency telephone number:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture ssification according to Regulation (EC) No 1272/2008

GHS03 flame over circle

Ox. Sol. 2 H272 May intensify fire; oxidiser.



Skin Irrit. 2 H315 Causes skin irritation.

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

Classification according to Directive 67/548/EEC or Directive 1999/45/EC X | Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

O; Oxidising

Contact with combustible material may cause fire. R8:

Information concerning particular hazards for human and environment:

Other hazards that do not result in Not applicable

classification

No information known.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

Signal word Hazard statements

The substance is classified and labelled according to the CLP regulation. GHS03, GHS07

Danger
H272 May intensify fire; oxidiser.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements

H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Take any precaution to avoid mixing with combustibles.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Store locked up.
Dispose of contents/container in accordance with local/regional/national/international P501

2.3 Other hazards

Results of PBT and vPvB assessment

Not applicable. Not applicable. PBT:

SECTION 3: Composition/information on ingredients

3.1 Substances

CAS# Designation: 7758-05-6 Potassium iodate

Identification number(s): EC number:

231-831-9

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.

Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. After skin contact

Rinse opened eye for several minutes under running water. Then consult doctor.

Seek medical tréatment.

After eye contact After swallowing 4.2 Most important symptoms and effects,

both acute and delayed
4.3 Indication of any immediate medical
attention and special treatment needed

No further relevant information available No further relevant information available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents 5.2 Special hazards arising from the

substance or mixture

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.

If this product is involved in a fire, the following can be released: Hydrogen iodide (HJ)

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Trade name *Potassium iodate*

Potassium oxide

5.3 Advice for firefighters Protective equipment: Wear self-contained breathing apparatus. Wear full protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Do not allow material to be released to the environment without proper governmental permits. 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.

6.3 Methods and material for containment

and cleaning up: Prevention of secondary hazards:

Ensure adequate ventilation.

Acts as an oxidizing agent on organic materials such as wood, paper and fats Keep away from combustible material.

6.4 Reference to other sections

See Section 7 for information on safe handling
See section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

Substance/product can reduce the ignition temperature of flammable substances.

This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.

7.2 Conditions for safe storage, including any incompatibilities

7.2 Cond Storage

Requirements to be met by storerooms and

containers:

Information about storage in one common

storage facility:

No special requirements.

Store away from flammable substances. Store away from reducing agents. Store in the dark. Do not store with organic materials. Store away from metal powders.

Further information about storage

conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from the effects of light. No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of

technical systems:

7.3 Specific end use(s)

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

8.1 Control parameters Components with critical values that require

monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

No data

Additional information: 8.2 Exposure controls

Personal protective equipment
General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Use breathing protection with high concentrations. Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Impervious gloves

Breathing equipment: Protection of hands:

Impervious aloves

Material of gloves Penetration time of glove material

Eye protection:

Not determined Safety glasses Face protection

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information

Appearance: Form:

Powder Colour: White Smell:

Not determined Not determined Odour threshold: pH-value: Not applicable.

Change in condition

560 °C (dec) Not determined Not determined

Contact with combustible material may cause fire. Not determined

Change in condition
Melting point/Melting range:
Boiling point/Boiling range:
Sublimation temperature / start:
Inflammability (solid, gaseous)
Ignition temperature:
Decomposition temperature:
Self-inflammability:
Critical values for explosion:
Lower: Not determined Not determined. Not determined Not determined Lower: Upper: Steam pressure: Density at 20 °C Not applicable. 3,89 g/cm³

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Trade name *Potassium iodate*

Relative density Vapour density Not determined. Not applicable. Not applicable.

Evaporation rate Solubility in / Miscibility with

Water:

Partition coefficient (n-octanol/water): Viscosity: dynamic:

Not determined Not determined. Not applicable.

Not applicable. No further relevant information available 9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity 10.2 Chemical stability

kinematic

Thermal decomposition / conditions to be avoided:

10.3 Possibility of hazardous reactions

10.5 Incompatible materials:

10.6 Hazardous decomposition products:

May intensify fire; oxidiser.

Stable under recommended storage conditions.

No decomposition if used and stored according to specifications. Reacts with reducing agents
Reacts with flammable substances

The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA

Flammable substances

Reducing agents Organic materials Metal powders Light Hydrogen iodide (HI) Pótassium oxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects Acute toxicity:

LD/LC50 values that are relevant for

classification: Skin irritation or corrosion:

Eye irritation or corrosion: Sensitization: Germ cell mutagenicity: Carcinogenicity:

Reproductive toxicity:

Specific target organ system toxicity repeated exposure:

Specific target organ system toxicity - single exposure:

Aspiration hazard:

Additional toxicological information:

No effects known.

Causes skin irritation.

this product.

No data

or ACGIH

No effects known.

Causes serious eye irritation.
No sensitizing effect known.
No effects known.

May cause respiratory irritation. No effects known.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No further relevant information available No further relevant information available. No further relevant information available No further relevant information available.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
12.2 Persistence and degradability
12.3 Bioaccumulative potential
12.4 Mobility in soil

Additional ecological information:

General notes:

Do not allow material to be released to the environment without proper governmental permits. Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Avoid transfer into the environment. 12.5 Results of PBT and vPvB assessment PBT: Not applicable.

13.1 Waste treatment methods Recommendation

12.6 Other adverse effects SECTION 13: Disposal considerations

Not applicable.
No further relevant information available.

Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.

UN1479

Uncleaned packagings:

Disposal must be made according to official regulations. Recommendation:

SECTION 14: Transport information

UN-Number ADR, IMDG, IATA

14.2 UN proper shipping name

1479 OXIDIZING SOLID, N.O.S. (Potassium iodate) OXIDIZING SOLID, N.O.S. (Potassium iodate) ADR IMDG, IATA

14.3 Transport hazard class(es)

ADR

5.1 (O2) Oxidising substances. Class

IMDG, IATA

₫

Class 5.1 Oxidising substances.

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Trade name <i>Potassium iodate</i>	
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Label	5.1
Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Kemler Number:	Warning: Oxidising substances. 50
14.7 Transport in bulk according to Annex II of MARPOL73 Code	3/78 and the IBC Not applicable.
Transport/Additional information:	
ADR Excepted quantities (EQ): Limited quantities (LQ) Transport category Tunnel restriction code	E2 1 kg 2 E
UN "Model Regulation":	UN1479, OXIDIZING SOLID, N.O.S. (Potassium iodate), 5.1, II

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Australian Inventory of Chemical
Substances
Standard for the Uniform Scheduling of
Drugs and Poisons
National regulations
Information about limitation of use:

Employment restrictions concerning young persons must
For use only by technically qualified individuals

Classification according to VbF: Water hazard class:

Other regulations, limitations and prohibitive regulations ELINCS (European List of Notified Chemical

Substances of very high concern (SVHC) according to REACH, Article 57 REACH - Pre-registered substances 15.2 Chemical safety assessment:

Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals. Not applicable

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Substance is not listed.

Substance is not listed. Substance is listed. A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information
Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing data specification sheet:
Abbreviations and acronyms:

Health, Safety and Environmental Department.

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VPF: Verordnung über brennbare Flüssigkeiten, Osterreich (Ordinance on the storage of combustible liquids, Austria)

LC50: Lethal concentration, 50 percent

DE/E