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

1.1 Product identifier

Trade name Methylmercury(II) iodide

Stock number: A18340 CAS Number:

EC number: 205-600-8 Index number: 080-004-00-7

1.2 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development

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

Alfa Aesar Avocado Research Chemicals, Ltd. Avocado Research Chemicals, L'Shore Road
Port of Heysham Industrial Park
Heysham Lancashire LA3 2XY
United Kingdom
Office Tel: +44 (0) 1524 850506
Office Fax: +44 (0) 1524 850608
Email: uktech@alfa.com

www.alfa.com

Informing department: Product safety department.

1.4 Emergency telephone number: Call Carechem 24 at +44 (0) 1865 407333 (English only); +44 (0) 1235 239670 (Multi-language)

SECTION 2: Hazards identification

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



GHS06 skull and crossbones

Acute Tox. 2 H300 Fatal if swallowed. Acute Tox. 1 H310 Fatal in contact with skin. H330 Fatal if inhaled. Acute Tox. 2



GHS08 health hazard

H373 May cause damage to the central nervous system, the kidneys, the reproductive system and the brain through prolonged or repeated exposure. Route of exposure: Oral, Inhalative. STOT RF 2



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

Other hazards that do not result in classification No information known.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. Hazard pictograms







GHS06 GHS08 GHS09

Signal word Danger

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Hazard statements
H300 Fatal if swallowed.
H310 Fatal in contact with skin.
H330 Fatal if inhaled.
H373 May cause damage to the central nervous system, the kidneys, the reproductive system and the brain through prolonged or repeated exposure. Route of exposure: Oral, Inhalative.
H410 Very toxic to aquatic life with long lasting effects.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/...
P320 Specific treatment is urgent (see on this label).
P361 Take off immediately all contaminated clothing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances CAS# Designation: 143-36-2 Methylmercury(II) iodide Identification number(s): EC number: 205-600-8

Index number: 080-004-00-7

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Instantly remove any clothing soiled by the product.
Remove breathing apparatus only after soiled clothing has been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

Safety Data Sheet according to 1907/2006/EC, Article 31

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Trade name Methylmercury(II) iodide

After inhalation

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

After skin contact

Instantly wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

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

After swallowing Do not induce vomiting; instantly call for medical help.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture
If this product is involved in a fire, the following can be released:

Carbon monoxide and carbon dioxide

Mercury and organic compounds containing mercury Hydrogen iodide (HJ)

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

6.2 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. **6.3 Methods and material for containment and cleaning up:**Dispose of contaminated material as waste according to section 13.

Prepose of containing the section 13.

Prevention of secondary hazards: No special measures required.
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.

Open and handle container with care

Information about protection against explosions and fires: No information known.

7.2 Conditions for safe storage, including any incompatibilities

Storage
Requirements to be met by storerooms and containers: No special requirements.

Information about storage in one common storage facility: Store away from oxidising agents. Further information about storage conditions:

Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Store in a locked cabinet or with access restricted to technical experts or their assistants.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems:
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:

methyl mercury, as Hg

0.01; 0.03-STEL (skin) 0.05 0.01 (skin)

mg/m3 ACGIH TLV (Austria MAK 0

Belgium TWA

Denmark TWA Finland TWA

France VME

Germany MAK

Japan OEL Korea TLV

0.01 (skin) 0.05 (skin) 0.05 (skin) 0.05 (skin) 0.01 0.05 0.01; 0.03-STEL (skin) -TGG 0.05 0.05

Netherlands MAC-TGG 0.05 Norway TWA 0.05 Sweden NGV 0.05 (vapor) United Kingdom TWA 0.025 USA PEL 0.01 (skin) Additional information: No data

8.2 Exposure controls

Personal protective equipment

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.
Store protective clothing separately.
Avoid contact with the eyes and skin.
Maintain an ergonomically appropriate working environment.
Breathing equipment: Use self-contained respiratory protective device in emergency situations.
Protection of hands:
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.
Material of gloves Impervious gloves
Eye protection: Safety glasses

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Trade name Methylmercury(II) iodide

Body protection: Protective work clothing.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance: orm: Crystalline Colour: Light yellow Not determined Smell: Odour threshold: Not determined

pH-value:

Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 143 °C Not determined Not determined Not applicable Flash point

Inflammability (solid, gaseous)
Ignition temperature:
Decomposition temperature:
Self-inflammability: Not determined Not determined Not determined Not determined Product is not explosive.

Danger of explosion: Critical values for explosion:

Not determined Lower: Upper: Not determined Not applicable. Not determined Steam pressure: Density Relative density
Vapour density
Evaporation rate
Solubility in / Miscibility with
Water: Not determined. Not applicable. Not applicable.

Insoluble Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: Not applicable.

kinematic: 9.2 Other information Not applicable.
No further relevant information available.

Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity No information known.
 10.2 Chemical stability Stable under recommended storage conditions.
 Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known 10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: Oxidising agents
10.6 Incompatible materials: Oxidising agents
10.6 Incompatible materials: Oxidising agents
Carbon monoxide and carbon dioxide
Hydrogen iodide (HI)
Mercury and organic compounds containing mercury

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Fatal if inhaled.

Fatal in contact with skin. Fatal if swallowed.

Danger by skin resorption.

LD/LC50 values that are relevant for classification: No data

Skin irritation or corrosion: Irritant for skin and mucous membranes.

Eye irritation or corrosion: Irritant effect. Sensitization: No sensitizing effect known. Germ cell mutagenicity: No effects known.

Carcinogenicity:

EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available.

IARC-3: Not classifiable as to carcinogenicity to humans.

ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals. Reproductive toxicity: No effects known.

Specific target organ system toxicity - repeated exposure:

May cause damage to the central nervous system, the kidneys, the reproductive system and the brain through prolonged or repeated exposure. Route of exposure: Oral, Inhalative.

exposure: Oral, Inflatative.

Specific target organ system toxicity - single exposure: No effects known.

Aspiration hazard: No effects known.

Subacute to chronic toxicity: No effects known.

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

SECTION 12: Ecological information

12.1 Toxicity

12.1 Toxicity: No further relevant information available.
12.2 Persistence and degradability No further relevant information available.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.
Ecotoxical effects:

Remark: Very toxic for fish
Additional ecological information:

General notes:
Do not allow material to be released to the environment without proper governmental permits.

Water danger class 3 (Self-assessment): extremely hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into soil.

Also poisonous for fish and plankton in water bodies.

May cause long lasting harmful effects to aquatic life.

Avoid transfer into the environment.
Very toxic for aquatic organisms
12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

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Trade name Methylmercury(II) iodide

vPvB: Not applicable.
12.6 Other adverse effects No further relevant information available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

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.

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

	SECTION 14:	Transport	information
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UN-Number ADR, IMDG, IATA	UN2025
14.2 UN proper shipping name ADR IMDG. IATA	2025 MERCURY COMPOUND, SOLID, N.O.S. (Methylmercury (II) iodide) MERCURY COMPOUND, SOLID, N.O.S. (Methylmercury (II) iodide)

14.3 Transport hazard class(es)

ADR



Class IMDG, IATA 6.1 (T5) Toxic substances.



Label Packing group ADR, IMDG, IATA

Not applicable.

6.1 Toxic substances.

14.5 Environmental hazards: 14.6 Special precautions for user Kemler Number:

Warning: Toxic substances.

Environmentally hazardous substance, solid

Segregation groups

Heavy metals and their salts (including their organometallic compounds), mercury and mercury compounds

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport/Additional information:

Excepted quantities (EQ): Limited quantities (LQ) Transport category Tunnel restriction code

UN "Model Regulation":

E5 0 Ċ/E UN2025, MERCURY COMPOUND, SOLID, N.O.S. (Methylmercury (II) iodide),

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Australian Inventory of Chemical Substances Substance is not listed.

Standard for the Uniform Scheduling of Drugs and Poisons Substance is not listed.

National regulations

Information about limitation of use:
For use only by technically qualified individuals.
Employment restrictions concerning young persons must be observed.

Water hazard class: Water danger class 3 (Self-assessment): extremely hazardous for water.

Other regulations, limitations and prohibitive regulations

ELINCS (European List of Notified Chemical Substances) Substance is not listed.

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the manufacturing of the restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the manufacturing of the restrictions according to Article 67 and Annex XVIII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the manufacturing of the restrictions according to Article 67 and Annex XVIII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing of the manufacturing of the restrictions according to Article 67 and Annex XVIII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing of the Regulation (EC) No 1907/2006 (REACH) for the Regulation (EC) No 1907/2006 (REACH) for the REACH (REGULATION (the market and use must be observed.

Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

15.2 Chemical safety assessment: 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 SDS: Global Marketing Department

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Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods IMDG: International Maritime Code for 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)

LC50: Lethal concentration, 50 percent

VPVB: very Persistent and very Bioaccumulative

ACGIH: American Conference of Governmental Industrial Hygienists (USA)

OSHA: Occupational Safety and Health Administration (USA)

IAPC: International Agency for Research on Cancer

EPA: Environmental Protection Agency (USA)