E-mail: gcat@matthey.com www.alfa-chemcat.com

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

Printing date 09.02.2008 Revision: 09.02.2008

1 Identification of substance

**Product details** 

Ammonium iodide Trade name

Stock number:

L09610

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG Zeppelinstrasse 7 D-76185 Karlsruhe / Germany

Product safety department. Product Safety Department Informing department:

Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240 **Emergency information:** 

2 Hazards identification

Hazard designation:

Xi Irritant

Information pertaining to particular dangers for man and environment

R 36/37/38 Irritating to eyes, respiratory system and skin.

3 Composition/information on ingredients

Chemical characterization: Designation: (CAS#) Identification number(s): EINECS Number:

Ammonium iodide (CAS# 12027-06-4), 100%

234-717-7

4 First aid measures

After skin contact

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 eye contact After swallowing Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment.

5 Fire fighting measures

Suitable extinguishing agents Special hazards caused by the material, its products of combustion or flue gases:

CO2, extinguishing powder or water jet. Fight larger fires with water jet.

Can be released in case of fire:

Hydrogen iodide (HJ)

Nyturger house (NOx)
Ammonia
Nitrogen oxides (NOx)
Wear self-contained breathing apparatus.
Wear full protective suit. Protective equipment:

6 Accidental release measures

Person-related safety precautions:

Measures for environmental protection: Measures for cleaning/collecting:

Additional information:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Do not allow material to be released to the environment without proper governmental permits. Collect mechanically.
See Section 7 for information on safe handling

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

7 Handling and storage

Handling Information for safe handling:

Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. No special precautions necessary if used correctly.

Information about protection against explosions and fires:

Storage

No special measures required.

Requirements to be met by storerooms and

containers: Information about storage in one common

storage facility:

No special requirements.

Store away from water. Do not store together with acids. Do not store together with alkalis (caustic solutions).

Further information about storage conditions:

This product is hygroscopic.
Protect from humidity and keep away from water.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.

8 Exposure controls and 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.

Components with critical values that require monitoring at the workplace:

Additional information: No data

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. Use breathing protection with high concentrations. Safety glasses Protective work clothing.

Breathing equipment: Eye protection:

Body protection:

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9 Physical and chemical properties:		
General Information		
Form: Colour: Smell:	Granulate White Odourless	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	551℃ ((sub)) Not determined Not determined	
Flash point:	Not applicable	
Inflammability (solid, gaseous)	Product is not inflammable.	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Danger of explosion:	Product is not explosive.	
Critical values for explosion: Lower: Upper:	Not determined Not determined	
Steam pressure at 210℃:	1.3 hPa	
Density at 20℃	2.514 g/cm <sup>3</sup>	<u> </u>
Solubility in / Miscibility with Water at 100℃:	1542 g/l	

10 Stability and reactivity

Thermal decomposition / conditions to be

avoided: Materials to be avoided:

No decomposition if used and stored according to specifications. Water/moisture

Acids Bases

Light Interhalogens Reacts violently with interhalogens.

**Dangerous reactions:** 

Dangerous products of decomposition:

Ammonia Hydrogen iodide (HI) Nitrogen oxides (NOx)

11 Toxicological information

Acute toxicity: Primary irritant effect: on the skin:

on the eye: Sensitization: Irritant effect.

Irritant for skin and mucous membranes.

Additional toxicological information:

No sensitizing effect known.

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

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

or ACGIH.

12 Ecological information:

**General notes:** 

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

13 Disposal considerations

Product:

Recommendation

Consult state, local or national regulations for proper disposal.

Hand over to disposers of hazardous waste.

Must be specially treated under adherence to official regulations.

Uncleaned packagings: Recommendation:

Disposal must be made according to official regulations.

14 Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)
ADR/RID-GGVS/E Class:
None

Maritime transport IMDG/GGVSea: IMDG/GGVSea Class:

Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:

None

None

Transport/Additional information:

Not dangerous according to the above specifications.

15 Regulatory information

Designation according to EC guidelines:

Observe the normal safety regulations when handling chemicals

product:

Code letter and hazard designation of

Xi Irritant

Risk phrases:

36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 37 Wear suitable gloves.

National regulations

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

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

Water hazard class:

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:
Contact:

Health, Safety and Environmental Department. Paul V. Connolly GB