SAFETY DATA SHEET



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

1.1. Product identifier

Trade name or designation

AxSorb A

of the mixture

Registration number

75

Synonyms

None. 22713

Product code Issue date

26-June-2015

Version number

2 1

Revision date

24-January-2019

Supersedes date

10-August-2018

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

Identified uses

ndustrial applications, Adsorbent for gases and liquids (including dessicant), air separation,

catalysts, reaction modification.

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Axens

Headquarters

Axens SA

Address

89. boulevard Franklin Roosevelt

92508 Rueil-Malmaison

France

Telephone

+33 1 47 14 21 00

Fax

+33 1 47 14 25 00

SDS Contact e-mail

sds@axens.net

1.4. Emergency telephone

number

Europe

+1 760 476 3961

Asia Pacific

+1 760 476 3960

Americas

+1 760 476 3962

Middle East / Africa

+1 760 476 3959

Information on operation

24/7/365

hours

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary

Not classified for health hazards. However, occupational exposure to the mixture or substance(s)

may cause adverse health effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms

None.

Signal word

None.

Hazard statements

The mixture does not meet the criteria for classification.

Precautionary statements

Prevention

Observe good industrial hygiene practices.

Response

Wash hands after handling.

Storage

Store away from incompatible materials.

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Disposal

Dispose of waste and residues in accordance with local authority requirements.

Supplemental label information

None.

2.3. Other hazards

Not a PBT or vPvB substance or mixture, none

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name

%

CAS-No. / EC No. REACH Registration No. 1344-28-1

01-2119529248-35

Notes

Index No.

Aluminium Oxide

90 - 100

215-691-6

Classification:

Other components below reportable

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB; very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

Eve contact

Rinse with water, Get medical attention if irritation develops and persists.

Indestion

Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms

and effects, both acute and

delaved

Exposure may cause temporary irritation, redness, or discomfort.

4.3. Indication of any immediate medical attention

Treat symptomatically.

and special treatment needed SECTION 5: Firefighting measures

General fire hazards

No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective

equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting

procedures

Use water spray to cool unopened containers.

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste

disposal, see section 13 of the SDS.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe

Avoid prolonged exposure. Observe good industrial hygiene practices.

handling

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

SDS).

7.3. Specific end use(s)

None known.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components Type Value Form

Aluminium Oxide (CAS TWA 4 mg/m3 Respirable dust. 1344-28-1) 10 mg/m3 Inhalable dust.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Componento

Follow standard monitoring procedures.

Value

Derived no effect levels (DNELs)

General Population

Components	value	Assessment factor	Notes
Aluminium Oxide (CAS 1344-28-1)			
Long-term, Systemic, Oral	6.58 mg/kg bw/day	20	Repeated dose toxicity
Workers			
Components	Value	Assessment factor	Notes
Aluminium Oxide (CAS 1344-28-1)			
Long-term, Local, Inhalation	15.63 mg/m3	3	Repeated dose toxicity
Long-term, Systemic, Inhalation	15.63 mg/m3	3	Repeated dose toxicity
Predicted no effect concentrations (PNECs)			
Components	Value	Assessment factor	Notes
Aluminium Oxide (CAS 1344-28-1)			
Aquatic	74.9 µg/l	1	Hazard assessment conclusion: No data: aquatic toxicity unlikely.
STP	20 mg/l	10	

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Accessment factor Nation

Individual protection measures, such as personal protective equipment

General information

Personal protection equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment.

Eye/face protection

Wear safety glasses with side shields (or goggles).



Skin protection

- Hand protection

Wear appropriate chemical resistant gloves.



- Other

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

Environmental exposure

controls

Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Spheres

Physical state

Solid.

Form

Solid.

Colour

White.

Odour

Not available.

Odour threshold

Not available.

Not available.

Melting point/freezing point

2000 °C (3632 °F)

Initial boiling point and boiling

range

Not available.

Flash point

Not available.

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

(%)

Not available.

Vapour pressure

Not available.

Vapour density Relative density

Not available.

Solubility(ies)

Solubility (water)

Insoluble

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature

Not available.

Decomposition temperature

Not available. Not available.

Viscosity

Not explosive.

Explosive properties Oxidising properties

Not oxidising.

9.2. Other information

< 1.00 Density

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport,

10.2. Chemical stability

Material is stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials. Minimise dust generation and accumulation.

10.5. Incompatible materials

Acids. Bases. Strong oxidising agents. Chlorine.

10.6. Hazardous

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

decomposition products

SECTION 11: Toxicological information

General information

Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

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Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

Ingestion

May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms

Exposure may cause temporary irritation, redness, or discomfort.

11.1. Information on toxicological effects

Acute toxicity

Not known

Skin corrosion/irritation

Due to partial or complete lack of data the classification is not possible.

Serious eye damage/eye

Due to partial or complete lack of data the classification is not possible.

irritation

Respiratory sensitisation Due to partial or complete lack of data the classification is not possible.

Skin sensitisation

Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity

Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible.

Carcinogenicity Reproductive toxicity

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

Aspiration hazard

Due to partial or complete lack of data the classification is not possible.

Mixture versus substance

No information available.

information

Other information

Not available.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met for hazardous to the aquatic environment, long term. Due to partial or complete lack of data the classification for hazardous to the aquatic environment, acute hazard, is not possible.

Product

Species

Test Results

AxSorb A

Aquatic

Crustacea

EC50

Daphnia

100,5025 mg/l, 48 hours estimated

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture. No data available.

12.3. Bioaccumulative potential

Partition coefficient

Not available.

n-octanol/water (log Kow)

Bioconcentration factor (BCF)

Not available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB

assessment

Not a PBT or vPvB substance or mixture. Not available.

12.6. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). The exhausted catalysts may have different risks and properties compared to the original product. This safety data sheet is not applicable to exhausted catalysts.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code

The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

06 03 16

metallic oxides other than those mentioned in 06 03 15

Disposal methods/information

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk

Not applicable.

according to Annex II of MARPOL 73/78 and the IBC

Code

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations

Follow national regulation on the protection of workers from the risks of exposure to carcinogens

and mutagens at work, in accordance with Directive 2004/37/EC.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

Not available.

None,

References

Information on evaluation method leading to the classification of mixture

Not available. The classification for health and environmental hazards is derived by a combination of calculation

Full text of any H-statements not written out in full under Sections 2 to 15

methods and test data, if available.

Revision information

Training information

Disclaimer

SECTION 16: Other information: Disclaimer

Follow training instructions when handling this material.

AXENS cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.

Material name: AxSorb A

