## SAFETY DATA SHEET



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

1.1. Product identifier

Trade name or designation

of the mixture

Registration number

Synonyms None. **Product code** 22600

**Issue date** 04-December-2017

Version number 2.0

Revision date 25-February-2019
Supersedes date 02-May-2018

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

AxSorb D

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 No.

**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. Index No.NotesAluminium Oxide90 - 1001344-28-101-2119529248-35-

215-691-6

Classification: -

Other components below reportable levels

< 1

#### 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.

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms

and effects, both acute and

delayed

Exposure may cause temporary irritation, redness, or discomfort.

**4.3. Indication of any**Treat symptomatically.

immediate medical attention and special treatment needed

## **SECTION 5: Firefighting measures**

**General fire hazards**No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

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

media

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.

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

## **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.

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

sections

## SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any

incompatibilities

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 1344-28-1)	TWA	4 mg/m3	Respirable dust.	
,		10 mg/m3	Inhalable dust.	

**Biological limit values** 

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

Recommended monitoring

procedures

Follow standard monitoring procedures.

#### 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
<u>Workers</u>			
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
dicted 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: aquatio toxicity unlikely.
STP	20 mg/l	10	,
<b>-</b>			

### 8.2. Exposure controls

Appropriate engineering

controls

Ρ

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.

### 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.

Material name: AxSorb D SDS UK **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** 

Initial boiling point and boiling

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.
pH Not available.
Melting point/freezing point 2000 °C (3632 °F)

range

Flash point not applicable
Evaporation rate Not available.
Flammability (solid, gas) Not available.
Vapour pressure Not available.
Vapour density Not available.
Relative density Not available.

Solubility(ies)

Solubility (water) Insoluble

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Explosive properties Not explosive.

Oxidising properties Not oxidising.

**9.2. Other information** No relevant additional information available.

Not available.

## 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

decomposition products

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

### 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.

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.

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**Skin corrosion/irritation**Due to partial or complete lack of data the classification is not possible. No adverse effects due to

skin contact are expected.

Serious eye damage/eye

irritation

May be irritating to eyes. Due to partial or complete lack of data the classification is not possible.

**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.

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

**Reproductive toxicity**Due to partial or complete lack of data the classification is not possible. This product is not

expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible. No information available.

Specific target organ toxicity -

repeated exposure

No information available. Due to partial or complete lack of data the classification is not possible.

Aspiration hazard No information available. Due to partial or complete lack of data the classification is not possible.

Mixture versus substance

information

No information available

No information available.

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 D

**Aquatic** 

Crustacea EC50 Daphnia 100.5025 mg/l, 48 hours estimated

12.2. Persistence and

degradability

Not inherently biodegradable.

**12.3. Bioaccumulative potential** No data available.

Partition coefficient n-octanol/water (log Kow)

Not available.

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

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.

**Special precautions**Dispose in accordance with all applicable regulations.

### SECTION 14: Transport information

**ADR** 

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

RID

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

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**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

Not listed

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 Not listed.

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

Not listed

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 Not listed.

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.

References Not available.

Material name: AxSorb D sps uk

Information on evaluation method leading to the classification of mixture

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

Revision information Training information Disclaimer The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

None.

This document has undergone significant changes and should be reviewed in its entirety. 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.

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