# OTTO CHEMIE PVT LTD

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-----ISO 9001: 2015------

### **MATERIAL SAFETY DATA SHEET**

1.Identification

1.1GHS Product identifier

Product name Azelaic acid, ≥95%

1.20ther means of identification Product number A 2717

### 2. Hazard identification

2.1Classification of the substance or mixture

Skin irritation, Category 2 Eye irritation, Category 2

2.2GHS label elements, including precautionary statements

Pictogram(s)



Signal word

Warning

Hazard statement(s)

H315 Causes skin irritation

H319 Causes serious eye irritation

Precautionary statement(s)

Prevention

P264 Wash ... thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

Response

P302+P352 IF ON SKIN: Wash with plenty of water/...

P321 Specific treatment (see ... on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before

reuse

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Storage none Disposal none

2.3Other hazards which do not result in classification

none

### 3. Composition/information on ingredients

3.1Substances

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Chemical name	Common names and synonyms	CAS number	EC number	Concentration
Azelaic acid	Azelaic acid	123-99-9	none	100%

# 4.First-aid measures

4.1Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2Most important symptoms/effects, acute and delayed

no data available

4.3Indication of immediate medical attention and special treatment needed, if necessary

/SRP:/ Immediate first aid: Ensure that adequate decontamination has been carried out. If patient is not breathing, start artificial respiration, preferably with a demand valve resuscitator, bag-valve-mask device, or pocket mask, as trained. Perform CPR if necessary. Immediately flush contaminated eyes with gently flowing water. Do not induce vomiting. If vomiting occurs, lean patient forward or place on the left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep patient quiet and maintain normal body temperature. Obtain medical attention. /Poisons A and B/

### 5.Fire-fighting measures

5.1Extinguishing media

Suitable extinguishing media

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

5.2Specific hazards arising from the chemical

no data available

5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 6.Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. 6.3Methods and materials for containment and cleaning up

Small spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. Large spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

### 7. Handling and storage

7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2Conditions for safe storage, including any incompatibilities

Precautions: Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents. Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Sensitive to light. Store in light-resistant containers.

### 8.Exposure controls/personal protection

8.1Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3Individual protection measures, such as personal protective equipment (PPE)

Eve/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards

no data available

# 9. Physical and chemical properties

Physical state Solid

Colour White to off white Odour no data available Melting point/ freezing point -115\u00b0C(lit.)

Boiling point or initial boiling 286\u00b0C/100mmHg(lit.)

point and boiling range

Flammability no data available Lower and upper explosion no data available

limit / flammability limit

Flash point 210\u00b0C
Auto-ignition temperature Decomposition temperature pH 210\u00b0C
no data available no data available

Kine matic viscosity no data available

Solubility In water: 2.4 g/L (20 \u00baC)

Partition coefficient n- no data available

octanol/water (log value)

Vapour pressure <1 mm Hg ( 20 \u00b0C)

Density and/or relative 1,029 g/cm3

density

Relative vapour density 6.5 (vs air)
Particle characteristics no data available

# 10. Stability and reactivity

10.1Reactivity no data available 10.2Chemical stability

Stable under recommended storage conditions.

10.3Possibility of hazardous reactions

Slightly flammable to flammable in presence of heat.

10.4Conditions to avoid no data available

10.51ncompatible materials Reactive with oxidizing agents.

10.6Hazardous decomposition products

no data available

### 11.Toxicological information

Acute toxicity

Oral: LD50 Řat oral >5000 mg/kg Inhalation: no data available

Dermal: no data available
Skin corrosion/irritation
no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available Germ cell mutagenicity no data available

Carcinogenicity no data available

Reproductive toxicity no data available

STOT-single exposure

no data available STOT-repeated exposure

no data available Aspiration hazard

no data available

### 12. Ecological information

12.1Toxicity

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

12.2Persistence and degradability

AEROBIC: Biodegradation data for 1,7-heptanecarboxylic acid were not available(SRC, 2008) but straight chain carboxylic acids are expected to readily biodergade(1).

12.3Bioaccumulative potential

An estimated BCF of 3 was calculated in fish for 1,7-heptanecarboxylic acid(SRC), using a log Kow of 1.57(1) and a regression-derived equation(2). According to a classification scheme(3), this BCF suggests the potential for bioconcentration in aquatic organisms is low(SRC).

12.4Mobility in soil

The Koc of 1,7-heptanecarboxylic acid is estimated as 170(SRC), using a log Kow of 1.57(1) and a regression-derived equation(2). According to a classification scheme(3), this estimated Koc value suggests that 1,7-heptanecarboxylic acid is expected to have moderate mobility in soil. The pKa of 1,7-heptanecarboxylic acid is 4.55(4), indicating that this compound will almost entirely exist in

the anion form in the environment and anions generally do not adsorb more strongly to soils containing organic carbon and clay than their neutral counterparts(5).

12.50ther adverse effects

no data available

#### 13.Disposal considerations

13.1Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

# 14.Transport information

14.1UN Number

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.2UN Proper Shipping Name

ADR/RID: unknown IMDG: unknown IATA: unknown

14.3Transport hazard class(es)

ADR/RID: Not dangerous goods.

goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

IATA: no

14.4Packing group, if applicable

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

IMDG: no

14.5Environmental hazards

ADR/RID: no 14.6Special precautions for user

no data available

14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

15. Regulatory information

### 15.1Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
Azelaic acid	Azelaic acid	123-99-9	none
European Inventory	Listed.		
EC Inventory			Listed.
United States Toxic S	Listed.		
China Catalog of Haz	Not Listed.		
New Zealand Invento	Listed.		
Philippines Inventory	Listed.		
Vietnam National Chemical Inventory			Not Listed.
Chinese Chemical In	Listed.		

## Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.