



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

ACO DRAIN® Polyester Glue

Material number DK001

Revision date: 17/1/2018
Version: 9
Language: en-GB,IE
Date of print: 13/2/2018

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

1.1 Product identifier

Trade name: ACO DRAIN® Polyester Glue
This safety data sheet pertains to the following product:
ACO DRAIN Polyesterklebemasse

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

General use: Adhesive-paste

1.3 Details of the supplier of the safety data sheet

Company name: ACO Severin Ahlmann GmbH & Co. KG
Street/POB-No.: Am Ahlmannkai
Postal Code, city: 24782 Büdelsdorf
Germany
WWW: www.aco.com
E-mail: info@aco.com
Telephone: +49 (0) 4331 / 354-0
Telefax: +49 (0) 4331 / 354-130
Dept. responsible for information:
Telephone: +49 (0) 4331 / 354-0, E-mail: info@aco.com

1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany,
Telephone: +49 551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Flam. Sol. 2; H228 Flammable solid.
Skin Irrit. 2; H315 Causes skin irritation.
Eye Irrit. 2; H319 Causes serious eye irritation.
Repr. 2; H361d Suspected of damaging the unborn child.
STOT RE 1; H372 Causes damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling (CLP)



Signal word:

Danger

Hazard statements:

H228	Flammable solid.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.



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Precautionary statements: P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours.
P280	Wear protective gloves and eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling: Contains Styrene.

2.3 Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may lead to a narcotic effect.

Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Contains sand (26%, 0,1 - 0,5mm), Calcium carbonate (10% - 20%), polyester resin and fillers.

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119457861-32-xxxx EC No. 202-851-5 CAS 100-42-5	Styrene	10 - 20 %	Flam. Liq. 3; H226. Acute Tox. 4; H332. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Repr. 2; H361d. STOT RE 1; H372.
EC No. 204-493-5 CAS 121-69-7	N,N-dimethylaniline	< 0.5 %	Acute Tox. 3; H301. Acute Tox. 3; H311. Acute Tox. 3; H331. Carc. 2; H351. Aquatic Chronic 2; H411.

Full text of H- and EUH-statements: see section 16.



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SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	Immediately remove all contaminated clothing. Seek medical assistance when anyone has symptoms apparently due to inhalation, swallowing or contact with skin or eyes. Never give anything by mouth to an unconscious person. Position and transport victim on their side. In case of respiratory distress, bring into semi-upright, seated position. First aider: Pay attention to self-protection!
In case of inhalation:	Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Consult physician.
Following skin contact:	Clean with plenty of water. If possible, also wash with polyethylene glycol 400. Do not use solvents or thinners. Seek medical treatment in case of troubles.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.
After swallowing:	Rinse mouth with water. Never give anything by mouth to an unconscious person. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure.
Other symptoms: Shortage of breath, nausea, drowsiness, Sweating Mucous membrane irritation, cough, headache, vomiting, dizziness, fatigue, unconsciousness.
Reaction time and coordination may be impaired.
If higher concentrations occur: Pulmonary edema is possible.
Symptoms may occur with delay.

4.3 Indication of any immediate medical attention and special treatment needed

Symptoms of poisoning can only emerge after several hours; medical supervision is therefore essential for at least 48 hours.
In case of swallowing, gastric irrigation with activated carbon as an additive.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
Water fog, alcohol resistant foam, extinguishing powder, carbon dioxide.
Extinguishing media which must not be used for safety reasons:
strong water jet

5.2 Special hazards arising from the substance or mixture

Flammable solid. In case of fire may be liberated:
carbon monoxide and carbon dioxide. Toxic gases may form.

5.3 Advice for firefighters

Special protective equipment for firefighters:
Wear a self-contained breathing apparatus and chemical protective clothing.



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Additional information: Hazchem-Code: 1Z
Heating will lead to pressure increase: Danger of bursting and explosion. Keep containers cool with water spray.
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Do not allow fire water to penetrate into surface or ground water.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Obtain special instructions before use. Remove all sources of ignition. Avoid breathing vapours. Avoid contact with the substance.
Eliminate all ignition sources if safe to do so. If possible, eliminate leakage. Provide adequate ventilation.
Wear appropriate protective equipment. Keep unprotected people away.
Cordon off downwind area at risk and warn inhabitants.

6.2 Environmental precautions

Do not allow to enter drains, surface waters, basements or pits. Danger of explosion!

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Provide adequate ventilation. Beware of reignition. Thoroughly clean surrounding area.

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Obtain special instructions before use.
Provide adequate ventilation, and local exhaust as needed. Do not breathe vapours. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharge.
Use only explosion-protected equipment/instruments. Do not weld.
In partially filled containers explosive mixtures may form.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.
Keep container dry. Keep only in the original container.
Keep away from heat. Protect from direct sunlight.
Provide room air exhaust at ground level.

Hints on joint storage:

Do not store together with organic peroxides.
Keep away from radical former, oxidizing agents and acids.
Keep away from food, drink and animal feedingstuffs.



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7.3 Specific end use(s)

Adhesive-paste

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
100-42-5	Styrene	Great Britain: WEL-STEL	1080 mg/m ³ ; 250 ppm
		Great Britain: WEL-TWA	430 mg/m ³ ; 100 ppm
		Ireland: 15 minutes	170 mg/m ³ ; 40 ppm
		Ireland: 8 hours	85 mg/m ³ ; 20 ppm
471-34-1	Calcium carbonate	Great Britain: WEL-TWA	10 mg/m ³ (inhalable fraction)
		Great Britain: WEL-TWA	4 mg/m ³ (respirable fraction)
121-69-7	N,N-dimethylaniline	Great Britain: WEL-STEL	50 mg/m ³ ; 10 ppm
		Great Britain: WEL-TWA	25 mg/m ³ ; 5 ppm
		Ireland: 15 minutes	50 mg/m ³ ; 10 ppm
			(may be absorbed through the skin)
		Ireland: 8 hours	25 mg/m ³ ; 5 ppm
			(may be absorbed through the skin)

Additional information: Calcium carbonate is embedded in the product and not available as respirable dusts.

DNEL/DMEL: Information about styrene:
Systemic:
DNEL workers, short-term, inhalative: 289 mg/m³
DNEL workers, long-term, dermal: 406 mg/kg bw/d
DNEL workers, long-term, inhalative: 85 mg/m³
DNEL consumers, short-term, inhalative: 174.25 mg/m³
DNEL consumers, long-term, dermal: 343 mg/kg bw/d
DNEL consumers, long-term, inhalative: 10.2 mg/m³
DNEL consumers, long-term, oral: 2.1 mg/kg bw/d
local:
DNEL workers, short-term, inhalative: 306 mg/m³
DNEL consumers, short-term, inhalative: 182.75 mg/m³

PNEC: Information about styrene:
PNEC Water (freshwater): 0.028 mg/L
PNEC Water (marine water): 0.0028mg/L
PNEC Sediment (freshwater): 0.641 mg/kg dw
PNEC Sediment (marine water): 0.0641 mg/kg dw
PNEC Soil: 0.2 mg/kg dw
PNEC Sewage treatment plant: 5 mg/L

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type A (= against vapours of organic substances) according to EN 14387.



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- Hand protection: Protective gloves according to EN 374.
Glove material: fluoro rubber - Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Eye protection: Tightly sealed goggles according to EN 166.
- Body protection: Wear suitable protective clothing.
- General protection and hygiene measures:
Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Avoid breathing vapours. Do not get in eyes, on skin, or on clothing.
Contaminated work clothing should not be allowed out of the workplace.
When using do not eat or drink.
Wash hands thoroughly after handling.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Form: pasty
Colour: whitish
- Odour: characteristic
- Odour threshold: No data available
- pH value: No data available
- Melting point/freezing point: No data available
- Initial boiling point and boiling range: (Styrene) 145 °C
- Flash point/flash point range: approx. 32 °C
- Evaporation rate: No data available
- Flammability: No data available
- Explosion limits: LEL (Lower Explosion Limit): (Styrene) 1.20 Vol-%
UEL (Upper Explosive Limit): (Styrene) 8.90 Vol-%
- Vapour pressure: at 20 °C: (Styrene) 6 hPa
- Vapour density: No data available
- Density: at 20 °C: 1.60 - 1.80 g/mL
- Water solubility: insoluble
- Partition coefficient: n-octanol/water: (Styrene) 3.16 log P(o/w)
Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
- Auto-ignition temperature: not self-igniting
- Decomposition temperature: No data available
- Viscosity, dynamic: at 23 °C: 110000 - 150000 mPas (Brookfield)
- Explosive properties: Product is not explosive. Potentially explosive vapour/air mixtures may form.
- Oxidizing characteristics: No data available

9.2 Other information

- Ignition temperature: approx. 480 °C
- Additional information: Relative vapour density at 20 °C (air=1): 3,6 (Styrene)

SECTION 10: Stability and reactivity

10.1 Reactivity

Flammable solid. Vapours can form explosive mixtures with air.



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10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Polymerization along with heat production. Heating will lead to pressure increase:
Danger of bursting and explosion.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Take precautionary measures against static discharges.
Ground/bond container and receiving equipment.
Protect from direct sunlight.

10.5 Incompatible materials

Watch for exothermic reactions with peroxides.
keep away from oxidizing agents, radical former and acids.

10.6 Hazardous decomposition products

Thermal decomposition: No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Repr. 2; H361d = Suspected of damaging the unborn child.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): STOT RE 1; H372 = Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard: Lack of data.



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Other information:

Information about styrene:

LD50, Rat, oral: >2000 mg/kg

LC50, Rat, inhalative: 11,8 mg/L/4h

LC50, Mouse, inhalative: 9,5 mg/L/4h

Affects the central nervous system, possible disturbances from: 50 ml/m³.

DFG 2010 (Germany): Substance with a carcinogenic and genotoxic effect from which there is not to be expected an important contribution to the risk of cancer for persons as far as the AGW-value (German WEL) is observed. Classified according to IARC: 2B (possible for humans).

Harmful: danger of serious damage to health by prolonged exposure through inhalation. Chronic uptake results in damage of: nervous system, lung.

N,N-dimethylaniline:

LD50, Rat, oral: 1120 mg/kg

LD50, Rabbit, dermal: 1770 mg/kg

Symptoms

In case of inhalation:

Shortage of breath, nausea, drowsiness, Sweating Mucous membrane irritation, cough, headache, vomiting, dizziness, fatigue, unconsciousness.

Reaction time and coordination may be impaired.

If higher concentrations occur: Pulmonary edema is possible.

Symptoms may occur with delay.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Information about styrene:

Algae toxicity:

EC50 Selenastrum capricarnotum: 1,4 mg/L/72h.

Daphnia toxicity:

EC50 Daphnia magna: 4,7 mg/L/48h (OECD 202).

Fish toxicity:

LC50 Lepomis macrochirus (bluegill): 25 mg/L/96h.

LC50 Pimephales promelas: 29 - 59 mg/L/96h.

LC50 Poecilia reticulata: 75 mg/L/96h.

Source: IUCLID.

N,N-dimethylaniline:

Daphnia toxicity:

EC50 Daphnia magna: 5 mg/L/48h

Fish toxicity:

LC50 Pimephales promelas: 65,6 mg/L/96h.

12.2 Persistence and degradability

Further details:

Information about styrene:

Biodegradation: 71 %/ 28 d.

Product is readily biodegradable.

Does not dissolve in water. Floats on water surface.

Effects in sewage plants:

Information about styrene:

Bacteria toxicity:

EC50 Pseudomonas putida: >72 mg/L/16h

EC50 activated sludge : 500 mg/L/0,5h (ISO 8192-1986 E)



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12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

Information about styrene:

Bioconcentration factor (BCF): 13,5 - 64 (Literature)

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Other adverse effects

General information: Do not allow to penetrate into soil, waterbodies or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 08 04 09* = Waste adhesives and sealants containing organic solvents or other dangerous substances.

MFSU = manufacture, formulation, supply and use

* = Evidence for disposal must be provided.

Recommendation: Do not dispose of with household waste.
Incinerate as hazardous waste according to applicable local, state, and federal regulations.

Contaminated packaging

Waste key number: 15 01 04 = Metallic packaging.

Recommendation: Dispose of waste according to applicable legislation.
Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:

UN 3175

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 3175, SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Styrene)

14.3 Transport hazard class(es)

ADR/RID: Class 4.1, Code: F1

IMDG: Class 4.1, Subrisk -

IATA-DGR: Class 4.1

14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

II

14.5 Environmental hazards

Marine pollutant: no





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14.6 Special precautions for user

Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 40, UN number UN 3175
Hazard label: 4.1
Special provisions: 216 274 601
Limited quantities: 1 kg
EQ: E2
Contaminated packaging - Instructions: P002 IBC06 R001
Contaminated packaging - Special provisions: PP9
Special provisions for packing together: MP11
Portable tanks - Instructions: T3 - BK1 - BK2
Portable tanks - Special provisions: TP33
Tunnel restriction code: E

Sea transport (IMDG)

EmS: F-A, S-I
Special provisions: 216, 274
Limited quantities: 1 kg
Excepted quantities: E2
Contaminated packaging - Instructions: P002
Contaminated packaging - Provisions: PP9
IBC - Instructions: IBC06
IBC - Provisions: B21
Tank instructions - IMO: -
Tank instructions - UN: T3, BK2
Tank instructions - Provisions: TP33
Stowage and handling: Category B.
Properties and observations: Mixtures of non-dangerous solids (such as soil, sand, production materials etc.) and flammable liquids.
Segregation group: none

Air transport (IATA)

Hazard label: Flamm. solid
Excepted Quantity Code: E2
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y441 - Max. Net Qty/Pkg. 5 kg
Passenger and Cargo Aircraft: Pack.Instr. 445 - Max. Net Qty/Pkg. 15 kg
Cargo Aircraft only: Pack.Instr. 448 - Max. Net Qty/Pkg. 50 kg
Special provisions: A46
Emergency Response Guide-Code (ERG): 3L

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: 1Z
No data available

National regulations - EC member states

Volatile organic compounds (VOC):
14.7 % by weight = 250 g/L



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Labelling of packaging with <= 125mL content



Signal word:

Danger

Hazard statements:

H361d

Suspected of damaging the unborn child.

H372

Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P201

Obtain special instructions before use.

P260

Do not breathe vapours.

P308+P313

IF exposed or concerned: Get medical advice/attention.

P405

Store locked up.

P501

Dispose of contents/container to hazardous or special waste collection point.

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

H226 = Flammable liquid and vapour.

H228 = Flammable solid.

H301 = Toxic if swallowed.

H311 = Toxic in contact with skin.

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H331 = Toxic if inhaled.

H332 = Harmful if inhaled.

H351 = Suspected of causing cancer.

H361d = Suspected of damaging the unborn child.

H372 = Causes damage to organs through prolonged or repeated exposure.

H411 = Toxic to aquatic life with long lasting effects.

Reason of change: Changes in section 2: Labelling (P-phrases: EU, ATP 8)

Date of first version: 23/3/2012

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.