

Azo-Solv

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Date of issue: 15/09/2021 Version: 1.0

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

1.1. Product identifier

Product form : Substance
Trade name : Azo-Solv
UFI : YSX2-D0HV-9001-6J4J
EC No. : 500-038-2
CAS-No. : 25322-68-3
Product code : AzoSolv

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Azon Mixing Head Flushing Agent

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Azon UK Ltd
Bock C-Unit C14-15, Duffryn Park
1 Alder Avenue, Dyffryn Business Park
Hengoed
CF82 7TW
United Kingdom
Telephone: + 44 (0) 01443 814657
E-mail: info@azonuk.com

1.4. Emergency telephone number

Emergency number : +44 1443 814657 (Office hours only, English language only)

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated	CAS-No.: 25322-68-3 EC No.: 500-038-2	100

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove to fresh air, keep the patient warm and at rest. If symptoms develop, obtain medical attention.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Ensure that folded skin of eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Give 100 - 200 ml of water to drink. Obtain immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact	: May cause slight irritation to the skin.
Symptoms/effects after eye contact	: May cause slight irritation to eyes.
Symptoms/effects after ingestion	: Ingestion may cause discomfort.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Dry chemical. Alcohol-resistant foam. For large fire: Water spray.
Unsuitable extinguishing media	: Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not flammable. Will burn if heated.
Explosion hazard	: Prolonged exposure to fire may cause containers to rupture/explode.
Hazardous decomposition products in case of fire	: Carbon monoxide. Carbon dioxide. Aldehydes. Alcohols. Ethers.

5.3. Advice for firefighters

Firefighting instructions	: Cool closed containers exposed to fire with water spray. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: As in any fire, wear self-contained breathing apparatus and full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate area. Avoid inhalation of vapours. Avoid contact with eyes, skin and clothing. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required. See Section 8.

Emergency procedures : Ventilate area. Avoid inhalation of vapours. Avoid contact with eyes, skin and clothing.

6.2. Environmental precautions

Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak, if possible without risk. Dam up the liquid spill.

Methods for cleaning up : Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wash contaminated area with large amounts of water.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store tightly closed in a dry, cool and well-ventilated place. Special Sensitivity - Opened containers should be protected with a dry air or nitrogen padding. A drierrite or silica gel drying system on the vents can also be used.

Incompatible materials : Strong oxidising agents. Strong alkalis. Strong acids.

Storage temperature : 18 – 30 °C Do not exceed 49°C

7.3. Specific end use(s)

Thermal Efficient PU For Aluminium Fenestration Products.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide good ventilation in process area to prevent formation of vapour.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

Wear goggles or safety glasses with side shields if contact with the eyes is possible. Standard EN 166 - Personal eye-protection.

8.2.2.2. Skin protection

Skin and body protection:

Long-sleeved protective clothing

Hand protection:

Wear protective gloves if skin contact is possible. Standard EN 374 - Protective gloves against chemicals. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

8.2.2.3. Respiratory protection

Respiratory protection:

Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment. It is recommended to use respiratory equipment with combination filter, type A2/P2.

8.2.2.4. Thermal hazards

Thermal hazard protection:

Not required for normal conditions of use.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless to white/off-white.
Appearance	: Viscous. Liquid.
Odour	: Mild.
Odour threshold	: Not available
Melting point	: 53 – 57 °C
Freezing point	: Not available
Boiling point	: > 200 °C
Flammability	: Not flammable, Capable of being set on fire
Explosive properties	: Not explosive.
Oxidising properties	: Not oxidising.
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: 227 – 279 °C (closed cup)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
pH solution	: 4.5 – 7.5 (5 % Aqueous solution)
Viscosity, kinematic	: Not available
Solubility	: Miscible with water.
Log Kow	: Not available
Log Pow	: -0.698
Vapour pressure	: < 1 mbar (20°C)

Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 1.1 – 1.2 (25°C)
Relative vapour density at 20 °C	: > 10
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : 0.01

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

High temperature.

10.5. Incompatible materials

Strong oxidising agents. Strong alkalis. Strong acids.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Aldehydes. Alcohols. Ethers.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Additional information	: Based on available data, the classification criteria are not met

Azo-Solv (25322-68-3)

LD50 oral, rat	> 2000 mg/kg (OECD 423 method)
LD50 dermal, rat	> 2000 mg/kg (OECD 402 method)
LC50 inhalation, rat (mg/l)	11 mg/l - 4 Hours

Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met Not irritating to rabbits on cutaneous application (OECD 404 method)
Serious eye damage/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met

	Not irritating to rabbits on cutaneous application (OECD 405 method)
Respiratory or skin sensitisation	: Not classified

Additional information	: Based on available data, the classification criteria are not met Maximisation test (guinea pig): Not sensitising
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met In vitro: Bacterial reverse mutation test (Ames test), <i>S. typhimurium</i> : Negative (with and without metabolic activation)(OECD 471 method) In vitro: Mammalian chromosome aberration test: Inconclusive In vitro: Mammalian cell gene mutation test: Negative (OECD 476 method) (with and without metabolic activation)
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met NOAEL(P0), Fertility, Oral, rat: < 5699 mg/kg bw/day (OECD 421 method)
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met

Azo-Solv (25322-68-3)

NOAEL (oral, rat, 90 days)	8000 mg/kg bodyweight/day
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Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: No additional information available
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11.2.2. Other information

Potential adverse human health effects and symptoms	: May cause slight irritation to the skin, May cause slight irritation to eyes, Ingestion may cause discomfort.
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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Azo-Solv (25322-68-3)

LC50 fish	> 100 mg/l - 96 Hours (<i>Poecilia reticulata</i>)
EC50 Daphnia	112 – 150 mg/l - 48 Hours (<i>Daphnia magna</i>)

12.2. Persistence and degradability

Azo-Solv (25322-68-3)

Persistence and degradability	Readily biodegradable.
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12.3. Bioaccumulative potential

Azo-Solv (25322-68-3)

BCF - Fish [1]	3.162 l/kg (calculated value)
Log Pow	-0.698
Bioaccumulative potential	Not expected to bioaccumulate.

12.4. Mobility in soil

Azo-Solv (25322-68-3)

Log Koc	1.8568
Ecology - soil	Low potential for absorption in soil.

12.5. Results of PBT and vPvB assessment

Azo-Solv (25322-68-3)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. The correct waste code must be determined by the producer of the waste, based on how the waste has been produced.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

14.1. UN number or ID number

UN-No. (ADR)	: Not regulated
UN-No. (IMDG)	: Not regulated
UN-No. (IATA)	: Not regulated

14.2. UN proper shipping name

Proper Shipping Name	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) : Not regulated

IMDG
Transport hazard class(es) (IMDG) : Not regulated

IATA
Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Azo-Solv is not on the REACH Candidate List

Azo-Solv is not on the REACH Annex XIV List

Azo-Solv is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Azo-Solv is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms

ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route)
BCF (Bioconcentration factor)
CAS (Chemical Abstracts Service) number
CLP (Classification, Labeling and Packaging)
DNEL (Derived No Effect Level)
EC (European Community)
EC50 (Effective Concentration 50%)
EN (European Norm)
IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IBC (Intermediate Bulk Container)
IMDG (International Maritime Dangerous Goods Code)
IOELV (Indicative Occupational Exposure Limit)
Koc (Soil adsorption coefficient)
LC50 (Lethal Concentration 50%)
LD50 (Lethal Dose 50%)
OECD (Organisation for Economic Co-operation and Development)
OEL (Occupational exposure limit)
NOEC (No Observed Effect Concentration)
PBT (Persistent, Bioaccumulative and Toxic)
PNEC (Predicted No Effect Concentration)
QSAR (Quantitative Structure-Activity Relationship)
REACH (Registration, Evaluation and Authorisation of CHemicals)
SCOEL (Scientific Committee on Occupational Exposure Limits)
STEL (Short Term Exposure Limit)
STP (Sewage treatment plant)
TWA (Time Weighted Average)

UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
UVCB (Unknown or Variable composition, Complex reaction products or Biological materials)
vPvB (very Persistent and very Bioaccumulative)
WAF (Water Accommodated Fraction)

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : Classification procedure according to Regulation (EC) No. 1272/2008 [CLP]: Physical hazards: On basis of test data. Health hazards: Calculation method. Environmental hazards: Calculation method.

SDS EU - AZON

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