Azo-Purge MP2

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-Purge MP2
UFI	:	2PX2-V0UF-Y00J-H6JG
EC No.	:	906-170-0
REACH registration No	:	01-2119475445-32-XXXX
Product code	:	AzoPurge

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 : Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate
EC No. : 906-170-0

Name	Product identifier	%
Dimethyl Glutarate	CAS-No.: 1119-40-0 EC No.: 214-277-2	55 – 65*
Dimethyl Succinate	CAS-No.: 106-65-0 EC No.: 203-419-9	15 – 25*
dimethyl adipate	CAS-No.: 627-93-0 EC No.: 211-020-6	10 – 25*

Comments : * These substances are present in EC No. 906-170-0

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. If symptoms develop, obtain 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.

Hazardous decomposition products in case of fire : Carbon monoxide. Carbon dioxide.

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)

Azon Mixing Head Flushing Agent.

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

Azo-Purge MP2	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	8.3 mg/m³
DNEL/DMEL (General population)	
Long-term - local effects, inhalation	5 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.018 mg/l
PNEC aqua (marine water)	0.0018 mg/l
PNEC aqua (intermittent, freshwater)	0.16 mg/kg KW
PNEC aqua (intermittent, marine water)	0.016 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.09 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/m³

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. Butyl rubber (IIR): Material thickness: >= 0.5 mm, Breakthrough time: >= 480 minutes. 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

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 pale yellow.
Appearance	:	Liquid.
Odour	:	Sweet.
Odour threshold	:	Not available
Melting point	:	≈ 20 °C
Freezing point	:	Not available
Boiling point	:	195 – 230 °C
Flammability	:	Not flammable,Capable of being set on fire
Explosive properties	:	Not explosive.
Oxidising properties	:	Not oxidising.
Explosive limits	:	0.9 – 8 vol %
Lower explosive limit (LEL)	:	Not available
Upper explosive limit (UEL)	:	Not available
Flash point	:	100 °C
Auto-ignition temperature	:	370 °C
Decomposition temperature	:	Not available
pH	:	Not available
Viscosity, kinematic	:	Not available
Solubility	:	Slightly soluble. Water: 5.3 % @ 20°C
Log Kow	:	Not available
Vapour pressure	:	0.2 mm Hg
Vapour pressure at 50 °C	:	Not available
Density	:	Not available
Relative density	:	1.076 – 1.096 @ 20°C
Relative vapour density at 20 °C	:	Not available
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)	:	< 0.1
VOC content	:	≤ 100 %

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. Avoid ignition sources.

10.5. Incompatible materials

Strong oxidising agents. Strong alkalis. Strong acids.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

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-Purge MP2	
LD50 oral, rat	> 5000 mg/kg (OECD 423 method)
LD50 dermal, rat	> 2000 mg/kg (OECD 402 method)
LC50 inhalation, rat (mg/l)	> 11 mg/l - 4 Hours (OECD 403 method)

Dimethyl Glutarate (1119-40-0)	
LD50 oral, rat	> 5000 mg/kg
LD50 dermal, rat	> 2000 mg/kg
LC50 inhalation, rat (mg/l)	> 11 mg/l

Dimethyl Succinate (106-65-0)	
LD50 oral, rat	6892 mg/kg
LD50 dermal, rat	> 2000 mg/kg
LC50 inhalation, rat (mg/l)	> 5900 mg/l

dimethyl adipate (627-93-0)	
LD50 oral, rat	> 5000 mg/kg
LD50 dermal, rat	> 1000 mg/kg
LC50 inhalation, rat (mg/l)	> 11 mg/l

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
LLNA (The Mouse Local Lymph Node Assessment): Negative (OECD 429 method)
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), S. typhimurium: Negative (with and without metabolic activation)(OECD 471 method)
In vitro: Mammalian chromosome aberration test: Inconclusive
(OECD 473 method)
In vivo: Micronucleus test (mouse): Negative (OECD 474 method)
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
NOAEC, Developmental toxicity, Inhalation, rat: 1 mg/l (OECD 414 method)
NOEC(P0), Effects on fertility, Inhalation, rat: 1 mg/l (OECD 415 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-Purge MP2	
NOEC, Inhalation, rat	50 mg/m³ (90 days, OECD 413 method, respiratory system)
NOEL, Dermal, rat	1000 mg/kg bw/day (14 days, OECD 410 method, systemic effects)

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

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.

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-Purge MP2	
LC50 fish	18 – 24 mg/l - 96 Hours (Pimephales promelas)
EC50 Daphnia	112 – 150 mg/l - 48 Hours (Daphnia magna)
EC50 72h - Algae [1]	> 85 mg/l -72 Hours (Pseudokirchneriella subcapitata)
NOEC chronic algae	36 mg/l -72 Hours (Pseudokirchneriella subcapitata)

Dimethyl Glutarate (1119-40-0)	
LC50 fish	30.9 ppm - 96 Hours (Lepomis macrochirus)
EC50 Daphnia	112 – 150 - 48 Hours (Daphina magna)
EC50 72h - Algae [1]	> 85 mg/l -72 Hours (Psuedokirchnerilella subcapitata)
NOEC (chronic)	36 mg/l -72 Hours (Psuedokirchnerilella subcapitata)

Dimethyl Succinate (106-65-0)	
LC50 fish	50 – 100 - 96 Hours (Danio rerio)
EC50 Daphnia	50 – 100 - 48 Hours (Daphina magna)

dimethyl adipate (627-93-0)	
LC50 fish	27.5 – 37.5 mg/l - 96 Hours (lepomis macrochirus)
EC50 Daphnia	72 mg/l - 48 Hours (Daphina magna)

12.2. Persistence and degradability

Azo-Purge MP2	
Persistence and degradability	Readily biodegradable.

Dimethyl Glutarate (1119-40-0)	
Persistence and degradability	Readily biodegradable.

Dimethyl Succinate (106-65-0)	
Persistence and degradability	Readily biodegradable.

dimethyl adipate (627-93-0)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Azo-Purge MP2	
Bioaccumulative potential	No information available.

Dimethyl Glutarate (1119-40-0)	
Log Pow	0.49 (20°C)

Dimethyl Succinate (106-65-0)	
BCF - Fish [1]	3.16 l/kg
Log Pow	0.33 (40°C)

dimethyl adipate (627-93-0)	
Log Pow	1.4 (22 °C)

12.4. Mobility in soil

Azo-Purge MP2	
Ecology - soil	No information available.

Dimethyl Glutarate (1119-40-0)	
Log Koc	0.7176 – 1.0649

Dimethyl Succinate (106-65-0)	
Log Koc	1.4

12.5. Results of PBT and vPvB assessment

Azo-Purge MP2
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-Purge MP2 is not on the REACH Candidate List
Azo-Purge MP2 is not on the REACH Annex XIV List
Azo-Purge MP2 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-Purge MP2 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
VOC content : ≤ 100 %

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