

SAFETY DATA SHEET

According to EC Regulation 1907/2006 (REACH), Attachment II

Date of issue: 01/01/1999

Last change:16/02/2016

Idro-Pol Pava Idro-Gel Pava - BASE (Part A)

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

1.1 Product identifier

Idro-Pol Pava, Idro-Gel Pava Base (Part A)

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

Use:

Binder for coating materials

For details of the identified uses according to REACH-Regulation (EU) No. 1907/2006 refer to the annex of this safety data sheet.

1.3 Details of the supplier of the safety data sheet

Pava Resine Srl
Via Dolomiti, 6/1
I-35018 S. Martino di L. (PD)

Tel.: +39 049 5953085
e-mail: info@pavaresine.it

1.4 Emergency telephone number

In case of emergency: +39 049 5953085

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

No classification in accordance with the Regulation (EC) No. 1272/2008.

2.2 Label elements

No labeling necessary according to the Regulation (EC) No. 1272/2008.

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

Type of product: Mixture

3.2 Mixtures

Anionic polyacrylate dispersion

ca. 50 % in water / 1-butoxy-2-propanol 46 : 1,1

Hazardous components

1-Butoxy-2-propanol

Concentration [wt.-%]: ca. 1.1

Index-No.: 603-052-00-8

EC-No.: 225-878-4

REACH Registration Number: 01-2119475527-28

CAS-No.: 5131-66-8

Classification (1272/2008/CE): Flam. Liq. 3 H226 Skin Irrit. 2 H315 Eye Irrit. 2 H319

neutralising agent, bound as a salt:

Triethanolamine

Concentration [wt.-%]: ca. 2.9

EC-No.: 203-049-8

CAS-No.: 102-71-6

No classification in accordance with the Regulation (EC) No. 1272/2008.

Candidate List of Substances of Very High Concern for Authorisation

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: Take off all contaminated clothing immediately.

If inhaled: In case of irritation of the respiratory tract seek medical advice.

In case of skin contact: Wash off immediately with soap and plenty of water. Consult a doctor in the event of a skin reaction.

In case of eye contact: Hold the eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes). Contact an ophthalmologist.

If swallowed: DO NOT induce the patient to vomit, medical advice is required.

4.2 Most important symptoms and effects, both acute and delayed

Notes to physician: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Therapeutic measures: No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO₂), Foam, extinguishing powder, in cases of larger fires, water spray should be used.

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

5.3 Advice for fire-fighters

Firemen must wear self-contained breathing apparatus.

Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Put on protective equipment (see section 8). Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away.

6.2 Environment related measures

Do not allow to escape into waterways, wastewater or soil.

6.3 Methods and material for containment and cleaning up

Take up with absorbent for chemicals or, if necessary with dry sand and store in closed containers.

6.4 Reference to other sections

For further disposal measures see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

If an annex according to REACH-Regulation (EU) No. 1907/2006 is attached to this MSDS, the general conditions of use are further specified in the corresponding exposure scenarios.

When handling observe the usual precautionary measures for chemicals. Avoid contact with the skin and the eyes.

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at the end of workday. Keep working clothes separately. Change contaminated or soaked clothing.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Further information on the storage conditions which must be observed to preserve quality can be found in our product information sheet.

Storage class (TRGS 510) : 12: Non Combustible Liquids

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

If an annex according to Regulation (EU) No. 1907/2006 is attached to this MSDS, the general RMMs are further specified in the corresponding exposure scenarios.

8.1 Control parameters

No information on Exposure Limit Values necessary according to EC directive 2006/121/EG

The neutralizing agent is released during processing.

Derived No Effect Level (DNEL) or Derived Minimal Effect Level (DMEL)

1-Butoxy-2-propanol

Value type	Route of exposure	Health Effects	Value	Remarks
Worker (long-term)				
DNEL	Inhalation	- systemic effects	270.5 mg/m ³	
DNEL	Dermal	- systemic effects	44 mg/kg	
General population (long-term)				
DNEL	Inhalation	- systemic effects	33.8 mg/m ³	
DNEL	Oral	- systemic effects	8.75 mg/kg	
DNEL	Dermal	- systemic effects	16 mg/kg	

Predicted No Effect Concentration (PNEC)

1-Butoxy-2-propanol

Compartment	Value	Remarks
Freshwater	0.525 mg/l	
Marine water	0.0525 mg/l	
Intermittent use/release	5.25 mg/l	
STP (sewage-treatment plant)	10 mg/l	
Freshwater sediment	2.36 mg/kg	
Marine sediment	0.236 mg/kg	
Soil	0.16 mg/kg	

8.2 Exposure controls

Respiratory protection

Respiratory protection required in insufficiently ventilated working areas and during spraying.

Further recommendations regarding respiratory protection can be found in the individual exposure scenarios in the appendix.

Hand protection

Suitable materials for safety gloves; EN 374:

Fluorinated rubber - FKM: thickness $\geq 0,4$ mm; breakthrough time ≥ 480 min.

Butyl rubber - IIR: thickness $\geq 0,5$ mm; breakthrough time ≥ 480 min.

Nitrile rubber - NBR: thickness $\geq 0,35$ mm; breakthrough time ≥ 480 min.

Recommendation: contaminated gloves should be disposed of.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	liquid, thixotropic	
Colour:	white	
Odour:	slight inherent odour	
Odour Threshold:	not established	
pH:	ca. 7.3 at 22 °C (Determined in a 10 % aqueous solution)	
Freezing temperature:	ca. 0 °C	ISO 3016
Boiling point/boiling range:	ca. 99 °C at 1,013 hPa	EG A2

Flash point:	No flash point up to initial boiling point.	
Evaporation rate:	not established	
Flammability (solid, gas):	not applicable	
Burning number:	not applicable	
Upper/lower flammability or explosive limits:		
1-Butoxy-2-propanol	upper: 11.4 %(V) / lower: 1.1 %(V)	
Vapour pressure:	ca. 27 hPa at 20 °C	EG A4
	ca. 128 hPa at 50 °C	EG A4
	ca. 161 hPa at 55 °C	EG A4
Vapour density:	not established	
Density:	ca. 1.07 g/cm ³ at 20 °C	DIN 51757
Miscibility with water:	miscible at 15 °C	
Surface tension:	not established	
Partition coefficient (n-octanol/water):	not established	
Auto-ignition temperature:	not applicable	
Ignition temperature:	ca. 430 °C at 997 hPa	DIN 51794
Decomposition temperature:	not established	
Viscosity, dynamic:	1,000 - 3,500 mPa.s at 23 °C	DIN EN ISO 3219/A.3
	Shear gradient D = ca. 40 /s	
Explosive properties:	not established	
Dust explosion class:	not applicable	
Oxidising properties:	not established	

9.2 Other information

The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.

SECTION 10: Stability and reactivity

10.1 Reactivity

This information is not available.

10.2 Chemical stability

No thermal decomposition when stored and handled correctly.

10.3 Possibility of hazardous reactions

This information is not available.

10.4 Conditions to avoid

This information is not available.

10.5 Incompatible materials

This information is not available.

10.6 Hazardous decomposition products

On drying of the coating / hardening release of neutralising agent. (see section 3)

SECTION 11: Toxicological information

Toxicological studies on the product are not yet available.

Please find below the data available to us:

11.1 Information on toxicological effects

Acute toxicity, oral

Polyacrylate dispersion

LD50 rat: > 5,000 mg/kg

Toxicological studies of a comparable product.

1-Butoxy-2-propanol

LD50 rat: ca. 3,300 mg/kg

Method: OECD Test Guideline 423

Acute toxicity, dermal

Polyacrylate dispersion

Assessment: The substance or mixture has no acute dermal toxicity

Studies of a comparable product.

1-Butoxy-2-propanol

LD50 rat: > 2,000 mg/kg

Method: OECD Test Guideline 402

Acute toxicity, inhalation

Polyacrylate dispersion

Assessment: The substance or mixture has no acute inhalation toxicity

Studies of a comparable product.

1-Butoxy-2-propanol

LC50 rat: > 3.4 mg/l, 4 h

Test atmosphere: vapour

Assessment: The substance or mixture has no acute inhalation toxicity

Primary skin irritation

Polyacrylate dispersion

Species: rabbit

Result: non-irritant

Classification: No skin irritation

Toxicological studies of a comparable product.

1-Butoxy-2-propanol

Species: rabbit

Result: irritating

Classification: Causes skin irritation.

Method: OECD Test Guideline 404

Primary mucosae irritation

Polyacrylate dispersion

Species: rabbit

Result: slight irritant

Classification: No eye irritation

Toxicological studies of a comparable product.

1-Butoxy-2-propanol

Species: rabbit

Result: irritating

Classification: Causes serious eye irritation.

Method: OECD Test Guideline 405

Sensitisation

Polyacrylate dispersion
Skin sensitization (local lymph node assay (LLNA)):
Species: Mouse
Result: negative
Classification: Does not cause skin sensitization.
Method: OECD Test Guideline 429
Toxicological studies of a comparable product.

1-Butoxy-2-propanol
Skin sensitisation:
Species: Guinea pig
Result: negative
Classification: Does not cause skin sensitization.
Method: OECD Test Guideline 406

Respiratory sensitization

No data available.

Subacute, subchronic and prolonged toxicity

Polyacrylate dispersion
No data available.

1-Butoxy-2-propanol
NOAEL: 350 mg/kg
Application Route: Oral
Species: rat, male/female
Dose Levels: 100 -350 - 1000 mg/kg bw/day
Method: OECD Test Guideline 408

NOAEL: 700 ppm
Application Route: Inhalative
Species: rat, male/female
Dose Levels: 50 - 200 - 700 ppm
Method: OECD Test Guideline 412

Carcinogenicity

Polyacrylate dispersion
No data available.

1-Butoxy-2-propanol
NOAEL (Toxicity): 3,000 ppm
Species: Mouse, male/female
Application Route: Inhalative
Dose Levels: 300 - 1000 -3000 ppm
Exposure duration: 2 year(s)
Frequency of treatment: 6 hours/day, 5 days/week
Method: OECD Test Guideline 453
Animal testing did not show any carcinogenic effects.
Studies of a comparable product.

Reproductive toxicity/Fertility

Polyacrylate dispersion
No data available.

1-Butoxy-2-propanol
NOAEL (parents, generally toxicity): 100 mg/kg
NOAEL (parents, fertility): 1000 mg/kg
Test type: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test
Species: rat, male/female
Method: OECD Test Guideline 422

Reproductive toxicity/Teratogenicity

Polyacrylate dispersion
No data available.

1-Butoxy-2-propanol
NOAEL (maternal): 880 mg/kg
NOAEL (developmental toxicity): 880
Species: rat
Method: OECD Test Guideline 414

Genotoxicity in vitro

Polyacrylate dispersion
Test type: Salmonella/microsome test (Ames test)
Result: No indication of mutagenic effects.
Method: OECD Test Guideline 471
Toxicological studies of a comparable product.

1-Butoxy-2-propanol
Test type: Ames test
Metabolic activation: with/without
Result: negative
Method: OECD Test Guideline 471

Test type: Chromosome aberration test in vitro
Metabolic activation: with/without
Result: negative
Method: OECD Test Guideline 473

Test type: In vitro mammalian cell gene mutation test
Metabolic activation: with/without
Result: negative
Method: OECD Test Guideline 476

Genotoxicity in vivo

Polyacrylate dispersion
No data available.

1-Butoxy-2-propanol
No data available.

STOT evaluation – one-time exposure

Polyacrylate dispersion
No data available.

1-Butoxy-2-propanol
Based on available data, the classification criteria are not met.

STOT evaluation – repeated exposure

Polyacrylate dispersion
No data available.

1-Butoxy-2-propanol
Based on available data, the classification criteria are not met.

Aspiration toxicity

Polyacrylate dispersion
No data available.

1-Butoxy-2-propanol
Based on available data, the classification criteria are not met.

CMR Assessment

Polyacrylate dispersion
Carcinogenicity: No data available.
Mutagenicity: Based on available data, the classification criteria are not met.
Teratogenicity: No data available.
Reproductive toxicity/Fertility: No data available.

1-Butoxy-2-propanol

Carcinogenicity: Based on available data, the classification criteria are not met.

Mutagenicity: Based on available data, the classification criteria are not met.

Teratogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity/Fertility: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

Ecotoxicological studies of the product are not available.

Do not allow to escape into waterways, wastewater or soil.

Please find below the data available to us:

12.1 Toxicity

Acute Fish toxicity

Polyacrylate dispersion

LC50 > 100 mg/l

Species: Danio rerio (zebra fish)

Exposure duration: 96 h

Method: OECD Test Guideline 203

Ecotoxicological reports on a comparable product

1-Butoxy-2-propanol

LC50 > 100 mg/l

Species: Pimephales promelas (fathead minnow)

Exposure duration: 96 h

Chronic Fish toxicity

Polyacrylate dispersion

No data available.

1-Butoxy-2-propanol

No data available.

Acute toxicity for daphnia

1-Butoxy-2-propanol

EC50 > 1,000 mg/l

Test type: static test

Species: Daphnia magna (Water flea)

Exposure duration: 48 h

Method: OECD Test Guideline 202

Chronic toxicity to daphnia

Polyacrylate dispersion

No data available.

1-Butoxy-2-propanol

No data available.

Acute toxicity for algae

Polyacrylate dispersion

No data available.

1-Butoxy-2-propanol

EC50 > 1,000 mg/l

Test type: static test

endpoint: Growth inhibition

Species: Pseudokirchneriella subcapitata (green algae)

Exposure duration: 96 h

Acute bacterial toxicity

Polyacrylate dispersion

EC50 > 10,000 mg/l

Species: activated sludge
Method: OECD Test Guideline 209
Ecotoxicological reports on a comparable product

1-Butoxy-2-propanol
EC50 > 1,000 mg/l
Species: activated sludge
Exposure duration: 180 min
Method: OECD Test Guideline 209

12.2 Persistence and degradability

Biodegradability

Polyacrylate dispersion
Biodegradation: 5 %, 28 d, i.e. not readily degradable
Method: OECD Test Guideline 301 D
Ecotoxicological reports on a comparable product

1-Butoxy-2-propanol
Test type: aerobic
Inoculum: activated sludge
Biodegradation: 90 %, 28 d, i.e. readily biodegradable
Method: OECD Test Guideline 301 E

12.3 Bioaccumulative potential

Bioaccumulation

1-Butoxy-2-propanol
Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient (n-octanol/water)

1-Butoxy-2-propanol

log Pow: 1.2 at: 20 °C
Method: OECD Test Guideline 117

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Polyacrylate dispersion
No data available.

1-Butoxy-2-propanol
This substance does not meet the criteria for classification as PBT or vPvB.

12.6 Other adverse effects

1-Butoxy-2-propanol
The product contains none organically bound halogens.

SECTION 13: Disposal considerations

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

13.1 Waste treatment methods

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

None disposal into waste water.

SECTION 14: Transport information

ADR/RID

14.1 UN number : Not dangerous goods
14.2 UN proper shipping name : Not dangerous goods
14.3 Transport hazard class(es) : Not dangerous goods
14.4 Packing group : Not dangerous goods
14.5 Environmental hazards : Not dangerous goods

ADN

14.1 UN number : Not dangerous goods
14.2 UN proper shipping name : Not dangerous goods
14.3 Transport hazard class(es) : Not dangerous goods
14.4 Packing group : Not dangerous goods
14.5 Environmental hazards : Not dangerous goods

IATA

14.1 UN number : Not dangerous goods
14.2 UN proper shipping name : Not dangerous goods
14.3 Transport hazard class(es) : Not dangerous goods
14.4 Packing group : Not dangerous goods
14.5 Environmental hazards : Not dangerous goods

IMDG

14.1 UN number : Not dangerous goods
14.2 UN proper shipping name : Not dangerous goods
14.3 Transport hazard class(es) : Not dangerous goods
14.4 Packing group : Not dangerous goods
14.5 Environmental hazards : Not dangerous goods

14.6 Special precautions for user

See section 6 - 8.

Additional information : Not dangerous cargo.
Avoid heat above +35 °C. Avoid temperatures below +5 °C.
Keep away from foodstuffs, acids and alkalis.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances.
not applicable

Water contaminating class (Germany)

1 slightly water endangering
(in accordance with Annex 4 to the Directive on Water-Hazardous Substances)

Any existing national regulations on the handling of solvents must be observed.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for:
1-Butoxy-2-propanol

SECTION 16: Other information

Full text of the hazard statements of the CLP classification (1272/2008/CE) referred to under sections 2, 3 and 10.

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

In accordance with REACH Regulation (EC) No 1907/2006 art. 14, exposure scenarios for registered, hazardous lead substances identified as being present in a mixture classified as non-hazardous are given in the annex of the SDS.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.