



Safety Data Sheet

D1 PVA

Issue date: 22.03.2023

Version 1.1

This Safety Data Sheet has been compiled in accordance with directive EU 1907/2006 & EU 2105/830

SECTION 1: IDENTIFICATION OF PRODUCT AND COMPANY

1.1 PRODUCT IDENTIFIER

Product form:	Mixture
Product name:	D1 PVA
Type of product:	Adhesives, sealants
Product type:	Trade product

1.2 RELEVANT IDENTIFIED USES

Main use category: Binding agent, adhesive

1.3 DETAILS OF SUPPLIER OF SDS

Address: National Abrasives Ltd
54 Albert Road North
Reigate, Surrey
RH2 9EL

Telephone: 01737 242593
Fax: 01737 911310
Email: sales@national-abrasives.co.uk

1.4 EMERGENCY TELEPHONE

01737 242593

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification (REGULATION (EC) No. 1272/2008)
Not a hazardous substance or mixture.

2.2 LABEL ELEMENTS

Labelling (REGULATION (EC) No. 1272/2008)
Not a hazardous substance or mixture.

Additional Labelling

EUH210: Safety Data Sheet available on request.

EUH208: Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

2.3 OTHER HAZARDS

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 MIXTURES

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	≥ 0.025 - < 0.05
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9 613-167-00-5 01-2120764691-48	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	≥ 0.0002 - < 0.0015

For explanation of abbreviations, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

- General advice:** Do not leave the victim unattended.
- After inhalation:** If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
- After skin contact:** Immediately flush skin with soap and plenty of water. Call a physician if irritation develops or persists.
- After eye contact:** Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a physician.
- After ingestion:** Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE & DELAYED

None known.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.



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SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable: Carbon dioxide (CO₂), Dry powder, Water spray jet. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 SPECIAL HAZARDS ARISING FROM THE PRODUCT

No hazardous combustion products are known.

5.3 ADVICE FOR FIREFIGHTERS

Special protective equipment for fire fighters: Wear self-contained breathing apparatus for fire fighting if necessary.

Other information: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protective equipment.

6.2 ENVIRONMENTAL PRECAUTIONS

If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

6.4 REFERENCE TO OTHER SECTIONS

See sections; 7, 8, 11, 12 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Hygiene measures: General industrial hygiene practice. Wash hands before breaks and at the end of the workday.

Advice on safe handling: For personal protection, see section 8. Smoking eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Requirements for storage and containers: Electrical installations/working materials must comply with the areas technological safety standards.

Advice on common storage: No materials to be especially mentioned.

Further information on storage stability: No decomposition if stored and applied as directed.



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7.3 SPECIFIC END USE(S)

None known

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Contains no substances with occupational exposure limit values.

8.2 EXPOSURE CONTROLS

Personal protective equipment

General advice:	Avoid contact with skin and eyes.
Eye protection:	Wear safety glasses.
Hand protection:	Wear protective gloves.
Skin and body protection:	Wear protective suit.
Respiratory protection:	No personal respiratory protective equipment normally required.
Protective measures:	Personal protective equipment comprising; suitable protective gloves, safety goggles and protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form:	Liquid
Colour:	White
Odour:	None
pH:	3.0 - 5.0
Melting point/range:	ca. 0°C
Boiling point/range:	ca. 100°C
Flash point:	Does not flash
Upper explosion limit/ Upper flammability limit:	Not determined
Lower explosion limit/ Lower flammability limit:	Not determined
Vapour pressure:	23 hPa (20°C)
Relative vapour density:	Not determined
Density:	1.0 - 1.06 g/cm ³ (20°C) Method: ISO 2811-1
Water solubility:	Completely miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	Not determined
Viscosity:	15000 cps 6/20 @20°C



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9.2 OTHER INFORMATION

Solid content (%): Approx 26%
Flammability (liquids): Does not sustain combustion

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

No decomposition if stored and applied as directed.

10.2 CHEMICAL STABILITY

No decomposition if stored and applied as directed.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Stable under recommended storage conditions. No hazards to be specifically mentioned.

10.4 CONDITIONS TO AVOID

No data available.

10.5 INCOMPATIBLE MATERIALS

Not applicable.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute Toxicity

Not classified based on available information.

Components

1,2-benzisothiazol-3(2H)-one:

Acute oral toxicity: LD50 Oral (Rat): 490mg/kg
Acute inhalation toxicity: No data available
Acute dermal toxicity: LD50 Dermal (Rat): > 2000 mg/kg

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Acute oral toxicity: LD50 Oral (Rat): 64mg/kg
Acute inhalation toxicity: LC50 (Rat): 0.17 mg/L
Exposure time: 4hrs
Test atmosphere: Dust/mist
Acute dermal toxicity: LD50 Dermal (Rat): 87 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.



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Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

Components

1,2-benzisothiazol-3(2H)-one:

Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): 2.18 mg/L Exposure time: 96hrs
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (water flea)): 2.94 mg/L Exposure time: 48hrs
Toxicity to algae/aquatic plants:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.11 mg/L Exposure time: 72hrs
M-Factor (Acute aquatic toxicity):	1

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.22 mg/L Exposure time: 96hrs
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (water flea)): 0.1 mg/L Exposure time: 48hrs
Toxicity to algae/aquatic plants:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.048 mg/L Exposure time: 72hrs NOEC (Pseudokirchneriella subcapitata (green algae)): 0.0012 mg/L Exposure time: 72hrs Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity):	100



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Toxicity to microorganisms:	EC10: 7.92 mg/L Exposure time: 3hrs Method: OECD Test Guideline 209
Toxicity to fish (Chronic toxicity):	NOEC: 0.098 mg/L Exposure time: 28 days Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):	NOEC: 0.004 mg/L Species: Daphnia magna (water flea) Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity):	100

12.2 PERSISTENCE AND DEGRADABILITY

Components

1,2-benzisothiazol-3(2H)-one:
Biodegradability: Readily biodegradable

12.3 BIOACCUMULATIVE POTENTIAL

Components

1,2-benzisothiazol-3(2H)-one:
Partition coefficient: log Pow: 0.7 (20°C)
n-octanol/water:

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):
Partition coefficient: log Pow: -0.71 - 0.75
n-octanol/water: Method: OECD Test Guideline 107

12.4 MOBILITY IN SOIL

No data available.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent.

12.6 OTHER ADVERSE EFFECTS

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Product:	Do not dispose of with domestic refuse. Dispose of in accordance with local regulations.
Contaminated packaging:	Packaging that is not properly emptied must be disposed of as the unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.



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SECTION 14: TRANSPORT INFORMATION

14.1 UN NUMBER

Not regulated as a dangerous good.

14.2 UN PROPER SHIPPING NAME

Not regulated as a dangerous good.

14.3 TRANSPORT HAZARD CLASS(ES)

Not regulated as a dangerous good.

14.4 PACKING GROUP

Not regulated as a dangerous good.

14.5 ENVIRONMENTAL HAZARDS

Not regulated as a dangerous good.

14.6 SPECIAL PRECAUTIONS FOR USER

Not applicable.

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE

Not applicable for product as supplied.

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE PRODUCT

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles: Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

REACH - List of substances subject to authorisation (Annex XIV): Not applicable

Regulation (EU) No 1005/2009 on substances that deplete the ozone layer: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast): Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards: Not applicable

15.2 CHEMICAL SAFETY ASSESSMENT

Not applicable



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SECTION 16: OTHER INFORMATION

Full text of H-Statements

H301:	Toxic if swallowed
H302:	Harmful if swallowed
H310:	Fatal in contact with skin
H314:	Causes severe skin burns and eye damage
H315:	Causes skin irritation
H317:	May cause an allergic skin reaction
H318:	Causes serious eye damage
H330:	Fatal if inhaled
H400:	Very toxic to aquatic life
H410:	Very toxic to aquatic life with long lasting effects
H411:	Toxic to aquatic life with long lasting effects

Full text of other abbreviations

Acut Tox.:	Acute toxicity
Aquatic Acute:	Short-term (acute) aquatic hazard
Aquatic Chronic:	Long-term (chronic) aquatic hazard
Eye. Dam.:	Serious eye damage
Skin Corr.:	Skin corrosion
Skin Irrit.:	Skin irritation
Skin Sens.:	Skin sensitisation

This information must be passed onto any employees, customers, agents or contractors involved with the handling of this product. The information is based on current knowledge and is intended to describe the safety requirements of this product. It is not a guarantee of specific properties.

The data only applies if the product is used as intended. The product should not be used for purposes other than intended without seeking advice from the manufacturer.

CUSTOMER SERVICE

ADDRESS : 54 Albert Road North, Albert Road North Industrial Estate, Reigate, Surrey, RH2 9EL
PHONE : 01737 242 593 FAX : 01737 911 310 E-MAIL : sales@national-abrasives.co.uk