

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

# Hydrazine hydrate solution 25% in water

Creation date 26th September 2019

Revision date 24th November 2025

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

**Product identifier** Hydrazine hydrate solution 25% in water

Substance / mixture

0T1Y-S2KU-M00A-P1CU

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

#### Mixture's intended use

 $Chemical\ production,\ analytical\ chemistry,\ laboratory\ synthesis,\ industrial\ applications.$ 

# Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

#### 1.3. Details of the supplier of the safety data sheet

Name or trade name Ing. Petr Švec - PENTA s.r.o. Address

Radiová 1122/1, Praha 10, 102 00

Czech Republic

Identification number (CRN) 02096013 VAT number CZ02096013 Phone +420 226 060 681 Email info@pentachemicals.eu Web address www.pentachemicals.eu

Competent person responsible for the safety data sheet

Ing. Petr Švec - PENTA s.r.o. Name **Email** info@pentachemicals.eu

1.4. **Emergency telephone number** 

European emergency number: 112 112

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture 2.1.

### Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Acute Tox. 4, H302+H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Acute Tox. 3, H331 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

# Most serious adverse effects on human health and the environment

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause cancer. Toxic if inhaled. Harmful if swallowed or in contact with skin. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

#### 2.2. **Label elements**

### Hazard pictogram









Signal word

Danger

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**Hazard statements** 

H302+H312 Harmful if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

H331 Toxic if inhaled. H350 May cause cancer.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements** 

P201 Obtain special instructions before use.
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a doctor.

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

| in the working chan officert  |                |                        |   |      |
|---|----------------|------------------------|---|------|
| Identification numbers  | Substance name | Content in<br>% weight | Classification according to<br>Regulation (EC) No 1272/2008   | Note |
| Index: 007-008-00-3<br>CAS: 10217-52-4<br>EC: 206-114-9<br>Registration number:<br>01-2119492624-31 | hydrazine      | 25                     | Flam. Liq. 3, H226<br>Acute Tox. 3, H301+H311<br>Skin Corr. 1B, H314<br>Skin Sens. 1, H317<br>Eye Dam. 1, H318<br>Acute Tox. 2, H330<br>Carc. 1B, H350<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)<br>Specific concentration limit:<br>Skin Irrit. 2, H315: $3\% \le C < 10\%$<br>Skin Corr. 1B, H314: $C \ge 10\%$<br>Eye Irrit. 2, H319: $3\% \le C < 10\%$ | 1, 2 |

#### Notes

- 1 Substance of very high concern SVHC.
- 2 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

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#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

#### If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water or shower. Rinse cautiously with water for several minutes.

#### If in eves

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

#### If swallowed

Vomiting should be induced in the person only if conscious, within 1 hour from ingestion. If in doubt whether vomiting should be induced, contact the Toxicological Information Centre and give information about the substances or composition of the product as provided on the original packaging or in the safety data sheet of the product. Provide medical treatment.

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

#### If inhaled

Inhaling vapours can cause corrosion of the breathing system.

#### If on skin

Causes severe skin burns. May cause an allergic skin reaction.

# If in eyes

Causes serious eye damage.

#### If swallowed

Corrosion of the digestion system can occur.

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

Symptomatic treatment.

### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

#### Unsuitable extinguishing media

Water - full jet.

## 5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

## 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

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#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

#### 6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

### 6.4. Reference to other sections

See the Section 7, 8 and 13.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Wash hands and exposed parts of the body thoroughly after handling. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up. Keep container tightly closed.

## 7.3. Specific end use(s)

not available

### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

The mixture contains no substances for which occupational exposure limits are set.

#### 8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

### Eye/face protection





Protective goggles or face shield (based on the nature of the work performed).

# Skin protection





Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. When selecting gloves, consider the properties of the product and the duration of exposure. Replace gloves at the first signs of wear or damage. Other protection: protective workwear. Contaminated skin should be washed thoroughly.



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| Glove material | Thickness | Breakthrough time | Class | Exposure time       |
|----------------|-----------|-------------------|-------|---------------------|
| Nitrile (NBR)  | ≥ 0.3 mm  | >30 min           | 2     | Short-term          |
| Nitrile (NBR)  | ≥ 0.7 mm  | >480 min          | 6     | Repeated, Long-term |

# **Respiratory protection**



Use insulating breathing apparatus when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

#### Thermal hazard

Not available.

#### **Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

#### **SECTION 9: Physical and chemical properties**

# Information on basic physical and chemical properties

Physical state liquid Colour colourless Odour characteristic Melting point/freezing point data not available Boiling point or initial boiling point and boiling range data not available Flammability data not available Lower and upper explosion limit data not available Flash point data not available Auto-ignition temperature data not available Decomposition temperature data not available data not available Kinematic viscosity data not available Solubility in water soluble Partition coefficient n-octanol/water (log value) data not available data not available Density and/or relative density

Vapour pressure

Density 1.01 g/cm3 at 20 °C Relative vapour density data not available Particle characteristics data not available

#### 9.2. Other information

not available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

not available

#### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Unknown.



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#### 10.4. Conditions to avoid

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The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

#### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

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#### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

# **SECTION 11: Toxicological information**

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

No toxicological data is available for the mixture.

#### **Acute toxicity**

Toxic if inhaled. Harmful if swallowed or in contact with skin. Data for the components of the mixture are not available.

#### Skin corrosion/irritation

Causes severe skin burns and eye damage. Data for the components of the mixture are not available.

### Serious eye damage/irritation

Causes severe skin burns and eye damage. Causes serious eye damage. Data for the components of the mixture are not available.

# Respiratory or skin sensitisation

May cause an allergic skin reaction. Data for the components of the mixture are not available.

## Germ cell mutagenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

# Carcinogenicity

May cause cancer. Data for the components of the mixture are not available.

#### Reproductive toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

## Toxicity for specific target organ - single exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

# Toxicity for specific target organ - repeated exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

#### **Aspiration hazard**

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.



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#### 11.2. Information on other hazards

#### **Endocrine disrupting properties**

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

#### Other information

not available

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Data for the components of the mixture are not available.

## 12.2. Persistence and degradability

No data are available for either the mixture or the components.

#### 12.3. Bioaccumulative potential

No data are available for either the mixture or the components.

#### 12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

#### 12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components. Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

# 12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

#### 12.7. Other adverse effects

Not available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

## Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### **SECTION 14: Transport information**

### 14.1. UN number or ID number

UN 3293

# 14.2. UN proper shipping name

HYDRAZINE, AQUEOUS SOLUTION

# 14.3. Transport hazard class(es)

6.1 Toxic substances

# 14.4. Packing group

III

## 14.5. Environmental hazards

not relevant



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#### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

#### 14.7. Maritime transport in bulk according to IMO instruments

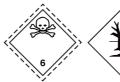
not relevant

## **Additional information**

Hazard identification No. UN number

Classification code

6.1+hazardous for the environment Safety signs



Tunnel restriction code (E)

Marine transport - IMDG

EmS (emergency plan) F-E, S-D

### **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).



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### Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

#### hvdrazine

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| hydrazine   |  |
|-------------|--|
| Restriction | Conditions of restriction  |
| 28          | <ol> <li>Shall not be placed on the market, or used,         <ul> <li>as substances,</li> <li>as constituents of other substances, or,</li> <li>in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:</li></ul></li></ol>   |
|             | Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:  "Restricted to professional users".   |
|             | 2. By way of derogation, paragraph 1 shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC; (c) the following fuels and oil products: — motor fuels which are covered by Directive 98/70/EC, — mineral oil products intended for use as fuel in mobile or fixed combustion plants, — fuels sold in closed systems (e.g. liquid gas bottles); (d) artists' paints covered by Regulation (EC) No 1272/2008; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.  (f) devices covered by Regulation (EU) 2017/745. |

# 15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out.

# **SECTION 16: Other information**

### A list of standard risk phrases used in the safety data sheet

| H226                         | Flammable liquid and vapour.                          |
|------------------------------|---|
| H301+H311                    | Toxic if swallowed or in contact with skin.           |
| H302+H312                    | Harmful if swallowed or 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.                            |
| H319                         | Causes serious eye irritation.                        |
| H330                         | Fatal if inhaled.                                     |
| H331                         | Toxic if inhaled.                                     |
| H350                         | May cause cancer.                                     |
| H400                         | Very toxic to aquatic life.                           |
| H410                         | Very toxic to aquatic life with long lasting effects. |
| Cuidalinas far safa handlina | used in the safety data sheet                         |

# Guidelines for safe handling used in the safety data sheet

| P201 | Obtain special instructions before use. |
|------|---|
| P273 | Avoid release to the environment.       |

P280 Wear protective gloves/protective clothing/eye protection/face protection.



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P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a doctor.

#### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

# Key to abbreviations and acronyms used in the safety data sheet

Acute Tox. Acute toxicity

ADR Agreement concerning the international carriage of dangerous goods by road

Aquatic Acute Hazardous to the aquatic environment

Aquatic Chronic Hazardous to the aquatic environment (chronic)

BCF Bioconcentration Factor

Carc. Carcinogenicity

CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substance and mixtures

EC Identification code for each substance listed in EINECS

EINECS European Inventory of Existing Commercial Chemical Substances
EmS Emergency Response Procedures for Ships Carrying Dangerous Goods

EU European Union

EuPCS European Product Categorisation System

Eye Dam. Serious eye damage
Eye Irrit. Eye irritation
Flam. Liq. Flammable liquid

IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying

**Dangerous Chemicals** 

ICAOInternational Civil Aviation OrganizationIMDGInternational Maritime Dangerous GoodsIMOInternational Maritime Organization

INCIInternational Nomenclature of Cosmetic IngredientsISOInternational Organization for StandardizationIUPACInternational Union of Pure and Applied Chemistry

log KowOctanol-water partition coefficientOELOccupational Exposure LimitsPBTPersistent, bioaccumulative and toxic

PMT Persistent, mobile and toxic

ppm Parts per million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Regulation concerning the International Carriage of Dangerous Goods by Rail

Skin Corr. Skin corrosion
Skin Irrit. Skin irritation
Skin Sens. Skin sensitization

UN number Four-figure identification number of the substance or article taken from the UN

Model Regulations

UVCB Substances of unknown or variable composition, complex reaction products or

biological materials

VOC Volatile organic compounds

vPvB Very persistent and very bioaccumulative



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Very persistent and very mobile

#### **Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

#### **Recommended restrictions of use**

not available

## Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

#### The changes (which information has been added, deleted or modified)

The version 7.0 replaces the SDS version from Monday, 3 February 2025. Changes were made in sections 2, 15 and

#### More information

Classification procedure - calculation method.

#### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.