

# SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878

Version 5.0

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Trade name: K 12

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

### **1.1 Product identification:**

Product name: K 12  
UFI: 2WY1-80AQ-P00N-038M

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

Usage: Epoxy hardener.  
Recommended restrictions on use: For commercial application only.

### **1.3 Details of the supplier of the safety data sheet:**

Responsible distributor : ASSYST bvba / A.S.O.W. bvba  
Hellegatstraat 13a  
2590 Berlaar  
Belgium  
Tel: +32 495 50 61 14 / +32 496 83 70 27  
Website: [www.assyst.org](http://www.assyst.org) / [www.artsuppliesonweb.com](http://www.artsuppliesonweb.com)  
Email: [ao@assyst.org](mailto:ao@assyst.org) / [vera.opsommer@assyst.org](mailto:vera.opsommer@assyst.org)

### **1.4 Emergency phone number:**

For Belgium:

Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.

NHS 24 Direct

For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

## **SECTION 2: Hazard identification**

### **2.1 Classification of the substance or mixture:**

**Classification according to directive (EC) No 1272/2008 and its amendments.**

The product is classified according to current legislation.

**Classification in accordance with Regulation (EC) No 1272/2008 as amended.**

#### **Health hazards**

Skin corrosion/irritation, Category 2 - H315: Causes skin irritation.

Eye irritation, Category 2 - H319: Causes severe eye irritation.

Skin sensitisation, Subcategory 1B - H317: May cause an allergic skin reaction.

(Chronic) Aquatic long-term hazard, Category 2 - H411: Toxic to aquatic organisms with long-lasting effects.

### **2.2 Labelling elements:**

**Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]:**



**Hazard pictograms:**

**Signal word**

Warning.

**Hazardous ingredients to be declared on the label:**

- ✓ Reaction mass of trientine, mono- and di-propoxylated

**Hazard statements:**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes severe eye irritation.

H411 Toxic to aquatic organisms with long-lasting effects.

**Precautions**

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## Prevention:

P261 Avoid inhalation of dust/fume/gas/mist/vapour/spray.

P264 After handling this product, wash skin thoroughly.

P273 Avoid discharge into the environment.

P280 Wear protective gloves/eye protection/face protection.

## Action:

P333 + P313 In case of skin irritation or rash: consult a doctor.

P391 Clean up any leaks/spills.

## 2.3 Other hazards:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## Ecological information:

The substance/mixture does not contain any components believed 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 level 0.1% or higher.

## Toxicological information:

The substance/mixture does not contain any components believed 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 level 0.1% or higher.

## SECTION 3: Composition and information on ingredients

### 3.2 Mixtures:

Chemical description: Aliphatic amine

Chemical Name	CAS No. EC No. Index no. Registration number	Classification	Concentration (%)
Reaction mass of trientine, mono- and di-propoxylated	Not allocated - - 01-2120098765-38	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 50 - <= 100

For explanation of abbreviations, see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures:

#### General advice:

Show this safety data sheet to the doctor on duty.

Keep warm and put in a quiet environment.

Remove contaminated clothing immediately.

#### By inhalation:

Getting into the fresh air.

Keep victim warm and calm.

If unconscious, apply stable side position and seek medical attention.

If symptoms persist, consult a doctor.

In case of irregular breathing or respiratory arrest, apply artificial respiration.

#### On contact with skin:

Immediately wash with soap and plenty of water.

DO NOT use solvents or paint thinner.

In case of spillage on clothing, remove clothing.

Burns should be attended to by a doctor.

#### On contact with eyes:

Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes.

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If eye irritation persists, consult a specialist.  
As far as easy to do, remove any contact lenses.

**If swallowed:**

DO NOT induce vomiting.  
Placing someone lying on their back and vomiting in a stable side position.  
Call a doctor immediately.  
Water small amounts.

4.2 Main acute and delayed symptoms and effects:

**Symptoms:**

Burn  
Superficial burning sensation  
Redness  
Strong irritation

4.3 Indication of immediate medical attention and special treatment required:

**Treatment:**

The procedure for first aid should be drawn up together with the company doctor.

**SECTION 5: Fire-fighting measures**

5.1 Extinguishing media:

**Suitable extinguishing agents:**

Carbon dioxide (CO<sub>2</sub>)  
Foam  
Dry powder  
Water mist

**Unsuitable extinguishing media:**

Nothing known.

5.2 Special hazards arising from the substance or mixture:

**Specific hazards in firefighting:**

Heat can increase pressure in sealed containers.  
Cool closed containers near the fire with water spray.  
In case of fire, hazardous decomposition products are formed.

5.3 Advice for firefighters:

**Special protective equipment for firefighters:**

In case of fire, wear a compressed air mask.  
Use personal protective equipment.

**Further information:**

In case of fire and/or explosion, avoid breathing fumes.  
Use extinguishing agents suitable for the local conditions and environment.  
Immediately evacuate personnel to a safe area.  
Prevent extinguishing water from contaminating surface water or groundwater systems.

**SECTION 6: Measures in case of accidental release of the substance or mixture**

6.1 Personal precautions, protective equipment and emergency procedures:

**Personal precautions:**

See protective measures in sections 7 and 8.  
Evacuate personnel to a safe area.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Inform the competent authority in case of gas leaks, or runoff into waterways, soil or sewers.

6.2 Environmental precautions:

**Environmental precautions:**

Avoid uncontrolled discharge of product into the environment.

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Try to prevent the material from draining into sewers or watercourses.

In case of significant leaks that cannot be contained, the local government should be notified.

#### 6.3 Methods and materials for containment and cleaning:

##### **Cleaning methods:**

Absorb in inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Limit spill and collect with non-combustible absorbent materials, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

Incorporate and transfer into properly labelled containers.

#### 6.4 Reference to other sections:

For personal protection, see section 8.

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

#### 7.1 Precautions for safe handling of the substance or mixture:

##### **Safe handling advice:**

Ensure adequate ventilation and/or extraction in the workplace.

Do not inhale vapours or spray mist.

Avoid inhalation, ingestion and contact with skin and eyes.

Wear personal protective clothing.

Persons suffering from skin sensitisation problems, asthma, allergies, chronic or recurrent respiratory diseases should not perform work involving the use of this mixture.

##### **Advice on protection against fire and explosion:**

Keep away from open flames, hot surfaces and ignition sources.

##### **Hygiene measures:**

Ensure adequate ventilation. Wash hands and face before stopping work and immediately after using product.

#### 7.2 Conditions for safe storage, including incompatibilities:

##### **Requirements for storage areas and containers:**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in correctly labelled containers. To maintain product quality, do not expose to heat or direct sunlight.

##### **Details of storage conditions:**

Protect against moisture.

##### **Advice for mixed storage:**

Keep away from isocyanates

Do not store near acids.

Keep away from oxidising agents.

##### **Other details:**

Stable at normal room temperature and pressure.

#### 7.3 Specific end use:

##### **Specific use:**

Before using this substance/mixture, refer to the technical guidelines.

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

#### 8.1 Control parameters:

The product contains no ingredients for which exposure values have been established.

#### 8.2 Exposure control measures:

##### **Technical controls:**

Effective extraction ventilation system.

Effective ventilation at all workplaces.

##### **Personal protection devices:**

##### **Eye protection:**

Do not wear contact lenses.

Safety glasses with side shields according to EN 166.

Provide eyewash facilities and safety showers close to the workplace.

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## Hand protection

### Material:

Protective gloves according to EN 374.

Notes:

Nitrile rubber

### Skin and body protection:

Protective clothing.

Recommended preventive skin protection.

### Respiratory protection:

When handling the substance, respiratory protection should be worn if there is a risk of exposure to the vapour of the substance.

The filter class of the respiratory protection must be suitable for the maximum pollution concentration (gas/vapour/aerosol/particles) that can be generated when handling the product.

Compressed air masks should be used if this concentration is exceeded.

### Recommended filter type:

ABEK filter

The equipment must comply with EN 14387.

### Protective measures:

Avoid contact with skin.

Wear suitable personal protective equipment.

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

### **9.1 Information on basic physical and chemical properties:**

Occurrence:	liquid
Colour:	light yellow
Odour:	ammoniacal
Odour threshold:	Not performed
Melting/freezing point:	Not applicable
Initial boiling point and boiling range:	> 130°C
Upper explosion limit / Upper flammability limit:	Not applicable
Lower explosion limit / Lower flammability limit:	Not applicable
Flash point:	> 155°C
Ignition temperature:	Not applicable
Self-ignition temperature:	Not applicable
Decomposition temperature:	No data available
pH:	11
	Concentration: 1%

### **Viscosity**

Viscosity, dynamic: 150-250 mPas (25°C)

Viscosity, kinematic: Not performed

### **Solubility**

Solubility in water: Not performed

Solubility in other solvents: Not performed

Partition coefficient: n-octanol/water: No data available

Vapour pressure: Not performed

Density: 1 g/cm<sup>3</sup> (25°C)

Bulk specific gravity: Not exported

Relative vapour density: Not performed

### **Particle characteristics**

Particle size: Not applicable

### **9.2 Other information**

Explosives: Not applicable

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Oxidising properties:	Not applicable
Self-ignition:	Not applicable
Evaporation rate:	Not performed
Surface tension:	Not performed
Sublimation point:	Not applicable

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity:**

Stable under recommended storage conditions.

### **10.2 Chemical Stability:**

No decomposition if stored and applied as indicated.

### **10.3 Potential Hazardous Reactions:**

#### **Dangerous reactions:**

Reacts with the following substances:

Acids

Strong oxidising agents

### **10.4 Conditions to avoid:**

No decomposition if directions are followed.

### **10.5 Chemically interacting Materials:**

#### **Materials to avoid:**

Strong acids

Strong oxidising agents

### **10.6 Hazardous Decomposition Products:**

**The following substances may be released from this product:**

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects:**

#### **Acute Toxicity**

Product:

#### **Acute oral toxicity:**

Comments: No data available

#### **Acute toxicity by inhalation:**

Comments: No data available

#### **Acute dermal toxicity:**

Comments: No data available

#### **Acute toxicity (other route of administration):**

Comments: No data available

#### **Skin corrosion/irritation**

Product:

Comments: No data available

#### **Serious eye damage/eye irritation**

Product:

Comments: No data available

#### **Respiratory/skin sensitisation**

Product:

Comments: No data available

#### **Mutagenicity in gametes**

#### **Carcinogenicity**

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Comments: No data available

## **Reproductive toxicity**

Product:

Effects on fertility:

Comments: No data available

Effects on foetal development:

Comments: No data available

## **STOT from single exposure**

Product:

Comments: No data available

## **STOT on repeated exposure**

Product:

Comments: No data available

## **Repeated-dose toxicity**

Product:

Comments: No data available

## 11.2 Information on other hazards

### **Endocrine-disrupting properties**

Product:

Assessment:

The substance/mixture does not contain components believed 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 level 0.1% or higher.

### **Further information**

Product:

Notes:

No data available

## **SECTION 12: Ecological information**

### 12.1 Toxicity:

Product:

#### **Toxicity to fish:**

Comments: No data available

#### **Toxicity to daphnia and other aquatic invertebrates:**

Comments: No data available

### 12.2 Persistence and Degradability:

Product:

#### **Biodegradability:**

Comments: No data available

#### **Physicochemical removability:**

Comments: No data available

### 12.3 Bioaccumulation:

Product:

#### **Bioaccumulation:**

Comments: No data available

### 12.4 Mobility in soil:

No data available

### 12.5 Results of PBT and vPvB assessment:

Product:

Assessment:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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## 12.6 Endocrine disrupting properties

Product:

Assessment:

The substance/mixture does not contain any components believed 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 level 0.1% or higher.

## 12.7 Other Harmful Effects:

Product:

### **Further information:**

The substance/mixture does not contain any components believed 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 level 0.1% or higher.

### **Additional ecological information:**

Notes: There is a risk of environmental damage if this substance is handled or disposed of improperly.

## **SECTION 13: Disposal instructions**

### 13.1 Waste treatment methods:

**Product:**

According to local and national regulations.

Container dangerous when empty.

Do not dispose together with household waste.

Do not mix streams during waste collection.

### **Contaminated packaging:**

Empty containers should be disposed of at an authorised waste treatment facility for reuse or disposal.

## **SECTION 14: Information relating to transport**

### 14.1 UN number

ADR/RID/ADN: UN 3082

IMDG: UN 3082

IATA: UN 3082

### 14.2 Proper cargo name according to UN model regulations

ADR/RID/ADN: ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S.

()

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

()

IATA: Environmentally hazardous substance, liquid, n.o.s.

()

### 14.3 Transport hazard class(es)

ADR/RID/ADN: 9

IMDG: 9

IATA: 9

### 14.4 Packing group

#### **ADR/RID/ADN**

Packing group: III

Classification code: M6

Hazard identification no.: 90

Labels: 9

Tunnel restriction code: -

Notes:

ADR: These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR

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provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

## IMDG

Packing group:

III

Labels:

9

EmS Code:

F-A, S-F

Notes:

IMDG Code segregation group 18 - Alkalis

IMDG: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of this Code relevant to any additional hazards continue to apply.

## IATA (cargo)

Packing requirement (cargo aircraft): 964

Packing group:

III

Labels:

Miscellaneous

Notes:

IATA: These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

## IATA (passenger)

Packing requirement (passenger aircraft): 964

Packaging requirement (LQ):

Y964

Packing group:

III

Labels:

Miscellaneous

### 14.5 Environmental hazards

#### **ADR/RID/AND**

Environmental hazard:

yes

#### **IMDG**

Marine pollution:

yes

#### **IATA**

Environmentally hazardous:

yes

### 14.6 Special precautions for the user

Notes:

The transport of dangerous goods, including loading and unloading, must be carried out in accordance with regulations by personnel who have received the necessary training;

The transport classification(s) given herein are for information only, and based solely on the properties of the unpackaged material as described in this safety data sheet. Transport classifications may vary in terms of mode of transport, size of packaging and variations in regional or national regulations.

### 14.7 Sea transport in bulk in accordance with IMO instruments

Not applicable for product, as delivered.

## **SECTION 15: Statutory information**

### 15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:

**REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII):**

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Restriction conditions for the following dates should be considered:

Number on the list: 3

**REACH - Candidate list of substances of very high concern for authorisation (Article 59)...**

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

**Regulation (EC) No 1005/2009 on ozone-depleting substances:**

Not applicable

**Regulation (EE) 2019/1021 on persistent organic pollutants (recast):**

Not applicable

**Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals:**

Not applicable

**REACH - List of substances subject to authorisation (Annex XIV):**

Not applicable

**REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors:**

Not applicable

**Overviews of toxic chemicals and precursor (intermediate) compounds of the International Convention on Chemical Weapons ("International Chemical Weapons Convention (CWC)"):**

Not applicable

**Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors:**

Not applicable

**Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances:**

E2

**ENVIRONMENT**

**Other regulations:**

As for the composition of the product, we deliberately do not add any of the substances indicated in European Directive 2011/65/EU (RoHS 2, RoHS3 and China RoHS).

The product therefore complies with the said guidelines.

Also, no conflict minerals are deliberately added to the product.

15.2 Chemical safety assessment:

Not applicable.

**SECTION 16: Other information**

**Full text of the H statements**

H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H319: Causes severe eye irritation.  
H411: Toxic to aquatic organisms with long-lasting effects.

**Full text of other abbreviations**

Aquatic Chronic: (Chronic) Aquatic long-term hazard  
Eye Irrit: Eye irritation  
Skin Irrit: Skin corrosion/irritation  
Skin Sens: Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;  
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Agreement); AICS - Australian Inventory of Chemical Substances; ASTM - American Association for the Testing of Materials; bw - Body Weight; CLP - Regulation on Classification, Labelling and Packaging; Regulation (EC) No 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for

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Standardisation; DSL - List of substances used indoors (Canada); ECHA - European Chemicals Agency; EC-Number - EINECS number; ECx - Concentration associated with x% response; ELx - Charge capacity associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half-Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organisation; IECSC - Inventory List of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korean Inventory of Existing Chemicals; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (lethal dose median); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not otherwise specified; NO(A)EC - No discernible (negative) effect on concentration; NO(A)EL - No discernible (negative) effect on Level; NOELR - No discernible effect on loading capacity; NZIoC - New Zealand inventory of chemicals; OECD - Organisation for Economic Co-operation and Development OECD; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Philippine inventory of chemicals and chemical substances; (Q)SAR - (Quantitative) structure-activity relationships; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); RID - Regulations concerning the International Carriage of Dangerous Goods by Rail (RID); SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwanese Chemicals Inventory List; TRGS - Technical Regulation on Hazardous Substances; TSCA - Toxic Substances Control Act (USA); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

Training advice:

Provide proper information, instruction and training for users.

The information in this safety data sheet is correct to the best of our knowledge at the date of issue indicated. This information is intended only as guidance for safe handling, use, processing, storage, transportation, disposal, and release, and should not be considered a guarantee or indication of quality.