

According to directive 1907/2006/EC, 2020/878
Version 9.0 Revision date: 25-08-2022
Trade name: Epoxy adhesive Duplomix DM90s - NC - B

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

1.1 Product identification:

Product name: Epoxy adhesive Duplomix DM90s - NC - B
UFI: C720-30RS-A00J-V5CG

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

Usage: Glue.
Recommended restrictions on use: For industrial and professional use 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 / www.artsuppliesonweb.com
Email: ao@assyst.org / 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 irritation, Category 2 H315: Causes skin irritation.
Eye irritation, Category 2 H319: Causes severe eye irritation.
Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.
(Chronic) Aquatic long-term hazard, Category 3 H412: Harmful to aquatic life 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:

- Poly[oxy(methyl-1,2-ethanediyl)], α -hydro- ω -hydroxy, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether
- N'-(3-Aminopropyl)-N,N-dimethylpropane-1,3-diamine

Hazard statements:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes severe eye irritation.

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H412 Harmful to aquatic life with long-lasting effects.

Precautions

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.

P337 + P313 In case of persistent eye irritation: consult a doctor.

2.3 Other hazards:

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

Ecological information:

The substance/mixture does not contain any components whose assumed to have endocrine-disrupting properties, according to REACH article 57(f) or the Commission's delegated regulation (EU) 2017/2100 or the regulation of the Commission (EU) 2018/605 at level 0.1% or above.

Toxicological information:

The substance/mixture does not contain any components whose assumed to have endocrine-disrupting properties, according to REACH article 57(f) or the Commission's delegated regulation (EU) 2017/2100 or the regulation of the Commission (EU) 2018/605 at level 0.1% or above.

SECTION 3: Composition and information on ingredients

3.2 Mixtures:

Description:

Chemical description : Amine solution

Chemical Name	CAS No. EC No. Index no. Registration number	Classification (Regulation (EC) No 1272/008)	Concentration (%)
Poly[oxy(methyl-1,2-ethanediyl)], α -hydro- ω -hydroxy, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol(4:1), 2-hydroxy-3-mercaptopropyl ether	72244-98-5 - - 01-2120118957-46	Skin Sens.1B; H317 Aquatic Chronic3; H412	$\geq 50 - \leq 100$
N'-(3-Aminopropyl)-N,N-dimethylpropane-1,3-diamine	10563-29-8 234-148-4 - 01-2119970376-29	Acute Tox.4; H302 Skin Corr.1A; H314 Eye Dam.1; H318 Skin Sens.1B; H317	$\geq 1 - < 3$
1,8-diazabicyclo[5.4.0]undec-7-ene	6674-22-2 229-713-7 - 01-2119977097-24	Acute Tox.3; H301 Skin Corr.1B; H314 Eye Dam.1; H3	$\geq 0,5 - < 1$

For explanation of abbreviations, see section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid measures:

General advice:

Keep warm and put in a quiet environment.
Show this safety data sheet to the doctor on duty.
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 skin contact:

Immediately wash off 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 eye contact:

Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes.
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 (CO₂)
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:

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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.
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).
Contain 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 air ventilation.
Wash hands and face before stopping work and immediately after using the product.

7.2 Conditions for safe storage, including incompatibilities:

Requirements for storage areas and containers:

Store 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:

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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.

Hand protection

Material:

Chemical-resistant gloves made of butyl rubber or nitrile rubber, category III according to EN 374.

Skin and body protection:

Protective clothing

Respiratory protection:

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

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:

Physical state :	liquid
Colour:	light yellow
Odour:	ammoniacal
Odour threshold:	Not performed
Melting/freezing point:	Not applicable
Boiling point/boiling range:	> 150°C
Upper explosion limit / Upper flammability limit:	Not applicable
Lower explosion limit / Lower flammability limit:	Not applicable
Flash point:	100°C
Ignition temperature:	Not applicable
Auto-ignition temperature :	Not applicable

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Decomposition temperature:	No data available
pH:	11
	Concentration: 1 %
<u>Viscosity</u>	
Viscosity, dynamic:	10,000 - 20,000 mPa.s (25°C)
Viscosity, kinematic:	Not performed
<u>Solubility</u>	
Solubility in water:	Not applicable
Solubility in other solvents:	Not performed
Partition coefficient: n- octanol/water :	No data available
Vapour pressure:	Not exported
Density:	1.14 g/cm ³ (25°C)
Bulk specific gravity:	Not exported
Relative vapour density:	Not performed
<u>Particle characteristics</u>	
Particle size:	Not applicable
<u>9.2 Other information</u>	
Explosive substances :	Not applicable
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_x)

Carbon monoxide

Carbon dioxide (CO₂)

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Acute Toxicity

Product:

Acute oral toxicity:

Acute toxicity estimates : > 2,000 mg/kg

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Method: Calculation method

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

Carcinogenicity

Product:

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 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.

Further information

Product:

Remarks : 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:

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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.

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:

Additional ecological information:

Remarks: 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

Not regulated as a hazardous substance

14.2 Proper cargo name according to UN model regulations

Not regulated as a hazardous substance

14.3 Transport hazard class(es)

Not regulated as a hazardous substance

14.4 Packing group

ADR/RID/ADN :

Not regulated as dangerous substance

IMDG :

Not regulated as a hazardous substance

Notes :

IMDG Code segregation group 18 - Alkalis

IATA (Cargo) :

Not regulated as dangerous goods

IATA (Passenger) :

Not regulated as dangerous goods

14.5 Environmental hazards

Not regulated as a hazardous substance

14.6 Special precautions for the user

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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, packaging size and variations in regional or national regulations.

14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code

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, mixtures and articles (Annex XVII):

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):

Not applicable

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:

Not applicable

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

H301 : Toxic if swallowed.
H302 : Harmful if swallowed.
H314 : Causes severe burns and eye damage.
H317 : May cause an allergic skin reaction.

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H318 : Causes serious eye damage.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Chronic : (Chronic) Aquatic long-term hazard
Eye Dam. : Serious eye damage
Skin Corr. : 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 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.

Classification of the mixture:

Skin irritation. 2	H315
Eye irritation. 2	H319
Skin Sens. 1	H317
Aquatic Chronic 3	H412

Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method

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.