

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 10/28/2016 Revision date: 7/11/2025 Supersedes version of: 4/8/2025 Version: 3.6

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Trade name : DSI Inject PUR 1C ADD FAST; DSI Inject PUR 1C ADD CURE FAST
Product group : Catalyst

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

Main use category : Professional use
Use of the substance/mixture : Catalyst

1.3. Details of the supplier of the safety data sheet

DSI Schaum Chemie sp. z o.o.
Podleska 76
43-190 Mikołów
Poland
T +48 32 355 90 81, 252 88 89, 252 88 99
info-schaumchemie@sandvik.com
E-mail address of competent person responsible for the SDS : lab.resin@sandvik.com

1.4. Emergency telephone number

Emergency number : Emergency Contact (24-Hour-Number):GBK GmbH +49 (0)6132-84463
Emergency phone number 112 (EU)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Serious eye damage/eye irritation, Category 2 H319
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H319 - Causes serious eye irritation.

Precautionary statements (CLP) :

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

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2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	2,2'-dimorpholinylidethyl ether (6425-39-4)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	2,2'-dimorpholinylidethyl ether (6425-39-4)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,2'-dimorpholinylidethyl ether	CAS-No.: 6425-39-4 EC-No.: 229-194-7	70 – 90	Eye Irrit. 2, H319

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact

: Rinse with water. Do not apply (chemical) neutralizing agents without medical advice. Take victim to a doctor if irritation persists.

First-aid measures after eye contact

: Remove contact lenses, if present and easy to do. Continue rinsing. Immediately rinse with water for a prolonged period while holding the eyelids wide open. Consult an eye specialist if necessary.

First-aid measures after ingestion

: Rinse mouth with water. Never give anything by mouth to an unconscious person. If necessary seek medical advice.

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

Symptoms/effects after inhalation

: No effects known.

Symptoms/effects after skin contact

: No effects known.

Symptoms/effects after eye contact

: Irritation of the eye tissue.

Symptoms/effects after ingestion

: No effects known.

Chronic symptoms

: No effects 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 extinguishing media	: Quick-acting ABC powder extinguisher. Quick-acting BC powder extinguisher. Quick-acting class B foam extinguisher. Quick-acting CO ₂ extinguisher. Class B foam (alcohol-resistant). Water spray if puddle cannot expand. Suitable extinguishing media.
Unsuitable extinguishing media	: Strong water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: DIRECT FIRE HAZARD: Combustible. INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard.
Explosion hazard	: DIRECT EXPLOSION HAZARD: No direct explosion hazard.
Hazardous decomposition products in case of fire	: On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide).

5.3. Advice for firefighters

Protection during firefighting	: Use self-contained breathing apparatus.
Other information	: No action shall be taken without appropriate training or involving any personal risk.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Use personal protective equipment as required.
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6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

For containment	: Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply.
Methods for cleaning up	: Take up liquid spill into inert absorbent material. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

For further information see section 1. See Section 8 for information on personal protection equipment. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with skin and eyes. See Section 8 for information on personal protection equipment. Do not drink, eat or smoke in the workplace.
Hygiene measures	: Observe normal hygiene standards.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep container tightly closed. Store in a well-ventilated place.
Incompatible products	: Hazardous reactions may occur on contact with certain chemicals. (Refer to the list of incompatible materials section 10: "Stability-Reactivity").
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources.
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: (strong) acids.
Storage area	: Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing, correctly labelled, meet the legal requirements. Secure fragile packagings in solid containers.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL and PNEC

2,2'-dimorpholinydiethyl ether (6425-39-4)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	1 mg/kg bw/day
Long-term - systemic effects, inhalation	7.28 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	0.5 mg/kg bw/day
Long-term - systemic effects, inhalation	1.8 mg/m ³
Long-term - systemic effects, dermal	0.5 mg/kg bw/day

PNEC (Water)

PNEC aqua (freshwater)	0.1 mg/l
PNEC aqua (marine water)	0.01 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	8.2 mg/kg dwt
PNEC sediment (marine water)	0.82 mg/kg dwt

PNEC (Soil)

PNEC soil	1.58 mg/kg dwt
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PNEC (Oral)

PNEC oral (secondary poisoning)	10 mg/kg food
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PNEC (STP)

PNEC sewage treatment plant	100 mg/l
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8.2. Exposure controls

Personal protection equipment

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Emergency eye showers should be available nearby. Wear tight fitting safety glasses or facial screen

Eye protection

Type	Field of application	Characteristics	Standard

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Skin protection

Skin and body protection:

Use chemically protective clothing

Hand protection:

Wear suitable gloves

Respiratory protection

Respiratory protection:

Respiratory protection not required in normal conditions. Ensure good ventilation of the work station

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Appearance	: Liquid.
Molecular mass	: 244.33 g/mol
Odour	: Amine-like odour.
Odour threshold	: Not available
Melting point	: < -20 °C (EU Method A.1: Melting/freezing point)
Freezing point	: Not available
Boiling point	: 309 °C
Flammability	: Not available
Explosive properties	: Not classified.
Oxidising properties	: Not classified.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 157 °C (1027 hPa, EU Method A.9: Flash-Point)
Auto-ignition temperature	: 209 °C (1016 hPa, EU Method A.15: Auto-ignition Temperature (liquids and gases), T3)
Decomposition temperature	: 200 °C (EU Method A.2: Boiling point)
pH	: 10.3
Viscosity, kinematic	: 97.087 – 145.631 mm ² /s
Viscosity, dynamic	: 100 – 150 mPa·s
Solubility	: Miscible with water. Water: miscible, EU Method A.6: Water solubility
Partition coefficient n-octanol/water (Log K _{ow})	: Not available
Vapour pressure	: 0.66 hPa (20 °C, EU Method A.4: Vapour Pressure)
Vapour pressure at 50°C	: Not available
Density	: 1.03 g/cm ³
Relative density	: 1.06 (20 °C, EU Method A.3: Relative Density)
Relative vapour density at 20°C	: > 1
Particle characteristics	: Not applicable

2,2'-dimorpholinyldiethyl ether

Boiling point	309 °C
Flash point	157 °C (1027 hPa, EU Method A.9: Flash-Point)
Auto-ignition temperature	209 °C (1016 hPa, EU Method A.15: Auto-ignition Temperature (liquids and gases), T3)

9.2. Other information

Other safety characteristics

VOC content	: 100 %
Other properties	: Slightly volatile, Basic reaction

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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

2,2'-dimorpholinyldiethyl ether (6425-39-4)

LD50 oral rat	2025 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	3038 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
Skin corrosion/irritation	: Not classified pH: 10.3

2,2'-dimorpholinyldiethyl ether (6425-39-4)

pH	10.3
Skin corrosion/irritation, rabbit	Not irritating to rabbits on cutaneous application (OECD 404 method)
Serious eye damage/irritation	: Causes serious eye irritation. pH: 10.3

2,2'-dimorpholinyldiethyl ether (6425-39-4)

pH	10.3
Serious eye damage/irritation, rabbit	Eye irritation (OECD 405 method)
Respiratory or skin sensitisation	: Not classified

2,2'-dimorpholinyldiethyl ether (6425-39-4)

Skin sensitization, Guinea pig	Does not cause cutaneous sensitisation for guinea-pigs (OECD 406 method)
Germ cell mutagenicity	: Not classified

2,2'-dimorpholinyldiethyl ether (6425-39-4)

Genotoxicity, In vitro	Negative (OECD 476 method)
GenotoxicityIn vitro	0 - 5000 ug/plate Negative (OECD 471 method)

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2,2'-dimorpholinyldiethyl ether (6425-39-4)

Genotoxicity	In vivo, oral, mouse, female, male, 2000 mg/kg	Negative (OECD 474 method)
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Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified

2,2'-dimorpholinyldiethyl ether (6425-39-4)

NOAEL (animal/male, F1)	300 mg/kg (OECD 422 method)
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NOAEL (animal/female, F1)	300 mg/kg (OECD 422 method)
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STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified

2,2'-dimorpholinyldiethyl ether (6425-39-4)

NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
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Aspiration hazard	:	Not classified
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Viscosity, kinematic	97.087 – 145.631 mm ² /s
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2,2'-dimorpholinyldiethyl ether (6425-39-4)

Viscosity, kinematic	216.6 mm ² /s (20 °C)
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11.2. Information on other hazards

Other information

Potential adverse human health effects and symptoms	:	Practically non-toxic if swallowed (LD50 oral, rat > 2000 mg/kg), Not irritant to skin, Practically non-toxic in contact with skin (LD50 skin > 2000 mg/kg), Slightly harmful by inhalation, Causes serious eye irritation.
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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	:	Not classified
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Hazardous to the aquatic environment, long-term (chronic)	:	Not classified
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2,2'-dimorpholinyldiethyl ether (6425-39-4)

LC50 - Fish [1]	> 2150 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)

12.2. Persistence and degradability

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Persistence and degradability	Not rapidly degradable
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2,2'-dimorpholinyldiethyl ether (6425-39-4)

Persistence and degradability	Not readily biodegradable in water.
Biodegradation	4 % 28 d; OECD 301 C
Half life pH: 7	1 yr (55 °C) Freshwater

12.3. Bioaccumulative potential

2,2'-dimorpholinyldiethyl ether (6425-39-4)

BCF - Fish [1]	2.9 – 3.1 l/kg (Equivalent or similar to OECD 305, 8 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, GLP)
Partition coefficient n-octanol/water (Log Pow)	0.5 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

2,2'-dimorpholinyldiethyl ether (6425-39-4)

Surface tension	67.7 mN/m (20 °C, 1 g/l, EU Method A.5: Surface tension)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.89 (log Koc, Calculated value, pH = 7)
Ecology - soil	Low potential for adsorption in soil.

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	2,2'-dimorpholinyldiethyl ether (6425-39-4)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	2,2'-dimorpholinyldiethyl ether (6425-39-4)

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: (Do not empty into drains). Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of via an authorised person/ licensed waste disposal contractor or by other suitable waste treatment techniques.
Product/Packaging disposal recommendations	: Empty the packaging completely prior to disposal. Do not re-use empty containers.
HP Code	: HP4 - "Irritant – skin irritation and eye damage." waste which on application can cause skin irritation or damage to the eye.

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SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
3(b)	DSI Inject PUR 1C ADD FAST; DSI Inject PUR 1C ADD CURE FAST ; 2,2'-dimorpholinylethyl ether	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

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REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

VOC Directive (2004/42)

VOC content : 100 %

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

France

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H319	Causes serious eye irritation.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Eye Irrit. 2	H319	Calculation method
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The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.