

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

BOSTIK MSP 109 TURBO Supercedes date 26-Jun-2024 Revision date 05-Aug-2025 Revision Number 4

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

1.1. Product identifier

Product Name BOSTIK MSP 109 TURBO

Form This substance/ mixture contains nanoforms

Other means of identification

Pure substance/mixture Mixture

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

Recommended use Adhesives

Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik Benelux B.V. Denariusstraat 11 4903 RC Oosterhout The Netherlands Tel: + 31 162 491 000

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

Ireland NPIC - National Poison Information Centre

Members of the Public: +353 (01) 8092166 (8.00 am to 10.00 pm - 7 days a week)

Healthcare Professionals: +353 (01) 8092566 (24 hour service)

United Kingdom Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri)

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

EU Specific Hazard Statements

EUH210 - Safety data sheet available on request

EUH208 - Contains Trimethoxyvinylsilane. May produce an allergic reaction

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2.3. Other hazards

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

PBT & vPvB

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight- %	REACH registration number	EC No. (Index No.)		concentration		M-Factor (long-ter m)	Notes
Trimethoxyvinylsilane 2768-02-7	1 - <3	01-2119513215 -52-XXXX	220-449-8 (014-049-00-0)	Acute Tox. 4 (H332) Skin Sens. 1B (H317) Flam. Liq. 3 (H226)	-	-	-	-
Bis(2,2,6,6-tetrameth yl-4-piperidyl) sebacate 52829-07-9	0.1 - <0.5	01-2119537297 -32-XXXX	258-207-9	Eye Dam. 1 (H318) Repr. 2 (H361f) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	-	1	-	-

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

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	EC No. (Index	CAS No.	Oral LD50	Dermal LD50		Inhalation	Inhalation
	No.)		mg/kg	mg/kg			LC50 - 4 hour -
						vapour - mg/L	gas - ppm
					mg/L		
Trimethoxyvinylsilane	220-449-8	2768-02-7	-	-	-	11	-
	(014-049-00-0)						
Bis(2,2,6,6-tetramethyl-	258-207-9	52829-07-9	-	-	-	-	-
4-piperidyl) sebacate							

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

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4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. If medical advice is needed,

have product container or label at hand.

Inhalation Remove to fresh air. If symptoms persist, call a doctor.

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

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

Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

doctor.

Small amounts of toxic methanol are released by hydrolysis. Call a doctor immediately. Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with

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

None known. **Symptoms**

Effects of Exposure No information available.

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

Note to doctors Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon

curing. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released, when the product is exposed to moisture or water. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Full water jet. Unsuitable extinguishing media

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Thermal decomposition can lead to release of irritating gases and vapours.

Hazardous combustion products Carbon oxides. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Silicon

dioxide. Thermal decomposition can lead to release of irritating and toxic gases and

vapours.

5.3. Advice for firefighters

precautions for fire-fighters

Special protective equipment and Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Ensure adequate ventilation. Do not get

in eyes, on skin, or on clothing.

For emergency responders Use personal protection recommended in Section 8.

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6.2. Environmental precautions

Environmental precautions Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section

12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Do not scatter spilled material with high pressure water streams.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and after

work.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture.

Keep away from food, drink and animal feedingstuffs.

Recommended storage

temperature

Keep at temperatures between 10 and 35 °C.

7.3. Specific end use(s)

Specific use(s)

Adhesives.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon

curing This product contains titanium dioxide in a non-respirable form. Inhalation of

titanium dioxide is unlikely to occur from exposure to this product

Chemical name	European Union	Ireland	United Kingdom
Limestone	-	TWA: 10 mg/m ³ ; respirable	TWA: 10 mg/m ³ ; inhalable
1317-65-3		dust	dust
		TWA: 4 mg/m ³ ;	TWA: 4 mg/m ³ ; respirable
		STEL: 30	dust
		mg/m³ (calculated);	STEL: 30 mg/m ³ ; inhalable
		STEL: 12	dust
		mg/m³ (calculated); total	STEL: 12 mg/m ³ ; respirable
		inhalable dust	dust
Methyl alcohol	TWA: 200 ppm;	TWA: 200 ppm;	TWA: 200 ppm;
67-56-1	TWA: 260 mg/m ³ ;	TWA: 260 mg/m ³ ;	TWA: 266 mg/m ³ ;
	pSk	STEL: 600 ppm (calculated);	STEL: 250 ppm;

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		STEL: 780	STEL: 333 mg/m ³ ;
		mg/m³ (calculated);	pSk
		pSk	
Silica, amorphous	-	TWA: 6 mg/m ³ ; total	TWA: 6 mg/m ³ ; inhalable
7631-86-9		inhalable dust	dust
		TWA: 2.4 mg/m³; respirable	TWA: 2.4 mg/m ³ ; respirable
		dust	dust
		STEL: 18	STEL: 18 mg/m ³ ; inhalable
		mg/m³ (calculated); respira	
		ble dust	STEL: 7.2 mg/m³; respirable
		STEL: 7.2	dust
		mg/m³ (calculated); respira	
		ble dust	

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)					
Trimethoxyvinylsilane (2768-	-02-7)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
worker Systemic health effects Long term	Inhalation	27,6 mg/m³			
worker Systemic health effects Long term	Dermal	3,9 mg/kg bw/d			

Bis(2,2,6,6-tetramethyl-4-pip	eridyl) sebacate (52829-07-	9)	
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Short term Long term Systemic health effects	Inhalation	2.82 mg/m ³	
worker Long term Systemic health effects	Dermal	1.6 mg/kg	

Derived No Effect Level (DN	Derived No Effect Level (DNEL)					
Trimethoxyvinylsilane (2768	-02-7)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor			
Consumer Systemic health effects Long term	Inhalation	18,9 mg/m³				
Consumer Systemic health effects Long term	Dermal	7,8 mg/kg bw/d				
Consumer Systemic health effects Long term	Oral	0,3 mg/kg bw/d				

Bis(2,2,6,6-tetramethyl-4-piperidy) sebacate (52829-07-9)		
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Dermal	0.8 mg/kg	
Consumer Long term Systemic health effects	Oral	0.4 mg/kg	

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Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)	
Trimethoxyvinylsilane (2768-02-7)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.34 mg/l
Marine water	0.034 mg/l
Microorganisms in sewage treatment	110 mg/l

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.018 mg/l
Marine water	0.0018 mg/l
Freshwater sediment	29 mg/kg
Marine sediment	2.9 mg/kg
Soil	5.9 mg/kg

8.2. Exposure controls

Ensure adequate ventilation, especially in confined areas. **Engineering controls**

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Eye protection must conform to

standard EN 166

Wear suitable gloves. Recommended Use:. Neoprene™. Nitrile rubber. Butyl rubber. Hand protection

Glove thickness > 0.7mm. The breakthrough time for the mentioned glove material is in general greater than 480 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific

gloves. Gloves must conform to standard EN 374

Skin and body protection None under normal use conditions.

Respiratory protection In case of inadequate ventilation wear respiratory protection. Wear a respirator

conforming to EN 140 with Type A/P2 filter or better. Ensure adequate ventilation,

especially in confined areas.

Organic gases and vapours filter conforming to EN 14387. White. Brown. Recommended filter type:

Environmental exposure controls Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid Appearance

Colour See section 1 for more information

Odour Characteristic.

Property Values Remarks • Method

Melting point / freezing point No data available None known None known

Initial boiling point and boiling No data available range

Flammability

No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point > 60 °C

Autoignition temperature No data available None known None known

Decomposition temperature pН No data available Not applicable.

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pH (as aqueous solution)No data available
None known

Kinematic viscosity > 21 mm²/s

Dynamic viscosity No data available

Water solubility Reacts with water. Product cures Reacts with water

with moisture

Solubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownVapour pressureNo data availableNone knownRelative densityNo data availableNone known

Bulk density No data available

Liquid Density 1.56

Relative vapour density No data available None known

Particle characteristics

Particle Size No information available Particle Size Distribution No information available

9.2. Other information

Solid content (%) No information available

VOC content 51.8 g/L

9.2.1. Information with regards to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Product cures with moisture.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical None.

impact

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Product cures with moisture. Protect from moisture. Exposure to air or moisture over

prolonged periods. Do not freeze. Keep away from open flames, hot surfaces and

sources of ignition.

10.5. Incompatible materials

Incompatible materialsNone known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon

products curing.

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SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation Based on available data, the classification criteria are not met.

Eye contact Based on available data, the classification criteria are not met.

Skin contactBased on available data, the classification criteria are not met. May cause sensitisation in

susceptible persons.

Ingestion Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral) 101,378.50 mg/kg
ATEmix (dermal) >2000 mg/kg
ATEmix (inhalation-gas) >20000 ppm
ATEmix (inhalation-dust/mist) >5 mg/l
ATEmix (inhalation-vapour) 381.60 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Trimethoxyvinylsilane	LD50 = 7120 -7236 mg/kg	= 3540 mg/kg (Oryctolagus	LC50 (4hr) 16.8 mg/l (Rattus)	
	(Rattus) OECD 401	cuniculus)	OECD TG 403	
Bis(2,2,6,6-tetramethyl-4-piperi	LD50 (Rattus)> 2000 mg/kg	LD50 (Rattus) > 3 170 mg/kg	=500 mg/m³ (Rattus) 4 h	
dyl) sebacate	OECD 423	OECD 402	1	

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)						
Method	Species	Exposure route	Effective dose	Exposure time	Results	
	Rabbit	Dermal	0.5 mL	24 hours	Non-irritant	

Bis(2,2,6,6-tetramethyl-	4-piperidyl) sebacat	e (52829-07-9)			
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404:	Rabbit	Dermal			Non-irritant
Acute Dermal					
Irritation/Corrosion					

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)

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Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	eye		24 hours	Non-irritant
Acute Eye					
Irritation/Corrosion					

Bis(2,2,6,6-tetramethyl-4-p	oiperidyl) sebacate	(52829-07-9)			
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	eye			Eye Damage
Acute Eye					
Irritation/Corrosion					

Respiratory or skin sensitisation

OECD Test No. 406: Skin Sensitisation. No sensitisation responses were observed. No classification is proposed, based on conclusive negative data. May cause sensitisation in susceptible persons.

Product Information						
Method	Species	Exposure route	Results			
OECD Test No. 406: Skin	Guinea pig	Dermal	No sensitisation responses			
Sensitisation			were observed			

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Component Information				
Trimethoxyvinylsilane (2768-02-7)				
Method	Species	Results		
OECD Test No. 471: Bacterial Reverse	in vitro	Not mutagenic		
Mutation Test				

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)				
Method	Species	Results		
OECD Test No. 422: Combined Repeated Dose	Rat	Not Classifiable		
Toxicity Study with the				
Reproduction/Developmental Toxicity Screening				
Test				

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)				
Method	Species	Results		
OECD Test No. 414: Pre-natal Development	Rat, Rabbit	Reproductive toxicant		
Toxicity Study		·		

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposureBased on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 413:	Rat	Inhalation vapour		90 days	0.058 NOAEL

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Sub-chronic Inhalation			
Toxicity: 90-day Study			

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Based on available data, the classification criteria are not met.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Trimethoxyvinylsilane 2768-02-7	EC 50 (72h) > 957 mg/l (Desmodesmus subspicatus) EU Method C.3	mykiss)	-	EC50(48hr) 168.7mg/l (Daphnia magna)		
Bis(2,2,6,6-tetramethyl- 4-piperidyl) sebacate 52829-07-9	0.705 mg/l	LC50 (96h) = 5.29 mg/l (Oryzias latipes)	-	LC50 48Hr 8.58 mg/l (Daphnia magna)	1	

12.2. Persistence and degradability

Persistence and degradability No information available.

Trimethoxyvinylsilane (2768-02-7)					
Method	Exposure time	Value	Results		
OECD Test No. 301F: Ready	28 days	BOD	51 % Not readily		
Biodegradability: Manometric	·		biodegradable		
Respirometry Test (TG 301 F)			-		

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)					
Method	Exposure time	Value	Results		
OECD Test No. 303: Simulation Test	28 days	Total organic carbon (TOC)	24 % Moderate		
- Aerobic Sewage Treatment A:	-				
Activated Sludge Units; B: Biofilms					

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Trimethoxyvinylsilane	1.1

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Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	0.35
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12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessmentBased on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment
Trimethoxyvinylsilane	Not PBT/vPvB
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	Not PBT/vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

12.7. Other adverse effects

Other adverse effects No information available.

PMT or vPvM properties Based on available data, the classification criteria are not met.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of contents/container in accordance with local, regional, national, and

international regulations as applicable.

Contaminated packaging Handle contaminated packages in the same way as the product itself.

European Waste Catalogue 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Other information Waste codes should be assigned by the user based on the application for which the

product was used.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated
 Not regulated
 Not regulated
 Not regulated
 Not regulated
 Not applicable

14.6 Special precautions for user

Special Provisions None

IMDG

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group

Not regulated
Not regulated
Not regulated
Not regulated

14.5 Marine pollutant NP

14.6 Special precautions for user

Special Provisions None

14.7 Maritime transport in bulk according to IMO instruments

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Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not regulated
Not regulated
Not regulated
Not regulated
Not applicable

14.6 Special precautions for user

Special Provisions None

SECTION 15: Regulatory information

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

European Union

Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Export Notification requirements

This product does not contain substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals above the level that triggers a labeling obligation under Regulation (EC) No 1272/2008. Therefore this product is not subject to prior informed consent notification.

Ozone-depleting substances (ODS) regulation (EC) 2024/590

Not applicable

Persistent Organic Pollutants

Not applicable

REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors

Not applicable

Regulations on drug precursors (EC) No 111/2005 (export) and 273/2004 (internal trade)

This product does not contain any substance(s) which are regulated pursuant to the EU regulations on drug precursors [(EC) No. 111/2005 and (EC) No. 273/2004] above levels that can be easily used or extracted by readily applicable or economically viable means.

National regulations

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15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of any hazard and/or precautionary statements referred to under Sections 2-15

H226 - Flammable liquid and vapour

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H361f - Suspected of damaging fertility

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT RE: Specific target organ toxicity - Repeated exposure STOT SE: Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

LOW: List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Dangerous Goods

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

Legend SECTION 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

AGW Occupational exposure limit value **BGW** Biological limit value Maximum limit value Sk* Skin designation Ceiling

Classification procedure		
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used	
Acute oral toxicity	Calculation method	
Acute dermal toxicity	Calculation method	
Acute inhalation toxicity - gas	Calculation method	
Acute inhalation toxicity - vapour	Calculation method	
Acute inhalation toxicity - dust/mist	Calculation method	
Skin corrosion/irritation	Calculation method	
Serious eye damage/eye irritation	Calculation method	
Respiratory sensitisation	Calculation method	
Skin sensitisation	On basis of test data	
Mutagenicity	Calculation method	
Carcinogenicity	Calculation method	
Reproductive toxicity	Calculation method	
STOT - single exposure	Calculation method	
STOT - repeated exposure	Calculation method	
Chronic aquatic toxicity	Calculation method	
Acute aquatic toxicity	Calculation method	
Aspiration hazard	Calculation method	
Ozone	Calculation method	

Key literature references and sources for data used to compile the SDS

European Food Safety Authority (EFSA)

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European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

European Chemicals Agency (ECHA) (ECHA_API)

U.S. Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

International Uniform Chemical Information Database (IUCLID)

Japan National Institute of Technology and Evaluation (NITE)

NIOSH (National Institute for Occupational Safety and Health)

International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set

Prepared By Product Safety & Regulatory Affairs

Revision date 05-Aug-2025

Training Advice No information available

Further information No information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation (EC) No. 1272/2008

Disclaimer

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End of Safety Data Sheet

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