

H-polymer MS

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 01/08/2017

Revision date: 12/09/2022

Supersedes version of: 01/08/2017

Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Product name : H-polymer MS

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only
Use of the substance/mixture : Hybrid adhesive for use on heavy load in building and industry.
Function or use category : Adhesives, binding agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor

Hranipex Czech Republic k.s.
J. Rýznerové 97, Komorovice
CZ- 396 01 Humpolec
Czech Republic
T 565 501 210

hranipex@hranipex.cz - www.hranipex.cz

E-mail address of competent person responsible for the SDS :

sds@regartis.com

Supplier

Hranipex Ltd.
Unit 2 Radial Park, Birmingham Business Park
Birmingham, B37 7YN
United Kingdom
T 0121 767 9180 - F 0121 782 6250

hranipex@hranipex.co.uk - www.hranipex.co.uk

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX Llandough	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB Newcastle	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

H-polymer MS

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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Supersedes version of: 01/08/2017

Version: 2.0

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

EUH-statements : EUH208 - Contains Trimethoxyvinylsilan, N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.
 EUH210 - Safety data sheet available on request.
 EUH212 - Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

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

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 is 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

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2 REACH-no: 01-2119489379-17	< 2	Carc. 2, H351

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 : Call a poison center or a doctor if you feel unwell.
 First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest. If you feel unwell, seek medical advice.
 First-aid measures after skin contact : After contact with skin, first remove product with a dry cloth and then wash the skin with plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
 First-aid measures after eye contact : Rinse eyes with plenty of cool water for at least 10 minutes while pulling eyelides up. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical advice.
 First-aid measures after ingestion : Do not induce vomiting. Drink plenty of water. If unconscious, place in the recovery position. Never give anything by mouth to an unconscious person. Call a physician immediately.

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

Symptoms/effects after skin contact : Exposure may produce an allergic reaction.

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

Treat symptomatically.

H-polymer MS

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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Revision date: 12/09/2022

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Version: 2.0

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Alcohol resistant foam. Carbon dioxide. Dry powder.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Thermal decomposition generates : Methanol. carbon oxides. Nitrogen oxides. Formaldehyde. Other toxic gases. Do not breathe fumes from fires or vapours from decomposition.

5.3. Advice for firefighters

- Firefighting instructions : Evacuate area. Use water to cool tanks/containers close to the heat source of fire. Move containers away from the fire area if this can be done without risk. Prevent fire fighting water from entering the environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Stop leak if safe to do so. Ensure adequate ventilation, especially in confined areas. No open flames. No smoking. Avoid contact with skin, eyes and clothing. Do not breathe fumes.

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel. Spilled material may present a slipping hazard.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Collect all waste in suitable and labelled containers and dispose according to local legislation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin, eyes and clothing. Do not breathe vapours. Keep container tight closed. Wear personal protective equipment. Keep away from food and drink.
Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke in areas where product is used. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ensure adequate ventilation. Keep in properly labelled containers. . Take precautionary measures against static discharge.

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Issue date: 01/08/2017

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Storage conditions	: Store in a dry, cool and well-ventilated place. Keep only in the original container. Keep container tightly closed. Store away from direct sunlight or other heat sources. Keep cool. Protect from moisture.
Incompatible products	: Keep away from strong acids, strong bases and oxidizing agents.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)

United Kingdom - Occupational Exposure Limits

Local name	Titanium dioxide
WEL TWA (OEL TWA) [1]	4 mg/m ³ respirable 10 mg/m ³ total inhalable
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)

DNEL/DMEL (Workers)

Long-term - local effects, inhalation	10 mg/m ³
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DNEL/DMEL (General population)

Long-term - systemic effects, oral	700 mg/kg bodyweight/day
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PNEC (Water)

PNEC aqua (freshwater)	0.184 mg/l
PNEC aqua (marine water)	0.0184 mg/l
PNEC aqua (intermittent, freshwater)	0.193 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	1000 mg/l
PNEC sediment (marine water)	100 mg/l

PNEC (Soil)

PNEC soil	100 mg/l
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PNEC (Oral)

PNEC oral (secondary poisoning)	1667 kg/kg food
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PNEC (STP)

PNEC sewage treatment plant	100 mg/l
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Issue date: 01/08/2017

Revision date: 12/09/2022

Supersedes version of: 01/08/2017

Version: 2.0

Calcium carbonate (471-34-1)

DNEL/DMEL (Workers)

Long-term - systemic effects, inhalation	10 mg/m ³
Long-term - local effects, inhalation	4.26 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	6.1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	10 mg/m ³
Long-term - local effects, inhalation	1.06 mg/m ³

PNEC (STP)

PNEC sewage treatment plant	100 mg/l
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8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Keep away from open flames, hot surfaces and sources of ignition. Do not breathe vapour.

8.2.2. Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment. Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

Tightly closed goggles (EN 166).

8.2.2.2. Skin protection

Skin and body protection:

Long sleeved protective clothing. Safety footwear. EN ISO 20344

Hand protection:

Follow the glove manufacturer's specific recommendations when selecting the appropriate thickness, material, and permeability.

Hand protection

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemical resistant gloves	natural rubber gloves	6 (> 480 minutes)	> 0,5 mm	x	EN 374

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Wash protective equipment and clothing before reuse. Do not eat, drink or smoke during use. Wash hands and other exposed areas with soap and water before leaving work.

H-polymer MS

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 01/08/2017

Revision date: 12/09/2022

Supersedes version of: 01/08/2017

Version: 2.0

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Several colours, depending on product specification.
Appearance	: Paste.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive properties	: Not explosive.
It does not have oxidising properties	: It does not have oxidising properties.
Explosion limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1.53 g/cm ³ 25°C
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reaction with water and alcohol results in the excretion of methanol.

10.4. Conditions to avoid

High temperature. Moisture. Water, humidity.

10.5. Incompatible materials

Strong acids, strong bases and strong oxidants.

10.6. Hazardous decomposition products

Thermal decomposition may produce : Formaldehyde. Methanol. Other toxic gases.

H-polymer MS

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Issue date: 01/08/2017

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Version: 2.0

SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified. (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified. (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)

LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	> 6.8 mg/l/4h

Calcium carbonate (471-34-1)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 3 mg/m ³

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified. (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)

Calcium carbonate (471-34-1)

NOAEL (animal/male, F0/P)	1000 mg/kg OECD 422
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STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)

NOAEL (oral, rat, 90 days)	3500 mg/kg bodyweight/day
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	10 mg/l

Calcium carbonate (471-34-1)

NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight/day
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.212 mg/l

Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: 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 is 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 %
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11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
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H-polymer MS

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 01/08/2017

Revision date: 12/09/2022

Supersedes version of: 01/08/2017

Version: 2.0

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)

LC50 - Fish [1]	> 100 mg/l <i>Oncorhynchus mykiss</i> , OECD 203
EC50 - Crustacea [1]	> 100 mg/l OECD 202
EC50 72h - Algae [1]	16 mg/l <i>Pseudokirchneriella subcapitata</i>
NOEC (chronic)	> 1000 mg/kg <i>Eisenia foetida</i>

Calcium carbonate (471-34-1)

EC50 72h - Algae [1]	> 14 mg/l <i>Desmodesmus subspicatus</i>
NOEC chronic algae	14 mg/l <i>Desmodesmus subspicatus</i>

12.2. Persistence and degradability

H-polymer ms

Persistence and degradability	Not established.
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12.3. Bioaccumulative potential

H-polymer ms

Bioaccumulative potential	Not established.
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12.4. Mobility in soil

H-polymer ms

Ecology - soil	Not established.
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12.5. Results of PBT and vPvB assessment

H-polymer ms

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

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : 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 is 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 %

12.7. Other adverse effects

Other adverse effects : Not stated.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.
 Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
 Sewage disposal recommendations : Do not dispose of waste into sewer.
 Product/Packaging disposal recommendations : Empty containers can be used in energy incinerator or stored in a landfill in accordance with the relevant legislation. Recycle following cleaning.
 Ecology - waste materials : Avoid release to the environment.

H-polymer MS

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Issue date: 01/08/2017

Revision date: 12/09/2022

Supersedes version of: 01/08/2017

Version: 2.0

European List of Waste (LoW) code : 08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

H-polymer MS

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Issue date: 01/08/2017

Revision date: 12/09/2022

Supersedes version of: 01/08/2017

Version: 2.0

PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

15.1.2. National regulations

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP)

United Kingdom

British National Regulations

: Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives, in the valid wording.
Regulation (EC) No 1013/2006 of the European Parliament and of the Council on shipments of waste, in the valid wording.
UK Waste Regulations.
UK REACH.
GB CLP.

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes

Section	Changed item	Change	Comments
	Supersedes	Added	
	Revision date	Added	
	Adverse health effects caused by endocrine disrupting properties	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	EUH-statements	Modified	
3	Composition/information on ingredients	Modified	
4.2	Symptoms/effects after skin contact	Added	
4.3	Other medical advice or treatment	Modified	
5.1	Suitable extinguishing media	Modified	
5.2	Hazardous decomposition products in case of fire	Modified	
6.1	Emergency procedures	Modified	

H-polymer MS

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 01/08/2017

Revision date: 12/09/2022

Supersedes version of: 01/08/2017

Version: 2.0

Indication of changes			
Section	Changed item	Change	Comments
6.3	Methods for cleaning up	Modified	
7.1	Precautions for safe handling	Modified	
7.2	Incompatible products	Modified	
7.2	Storage conditions	Modified	
9.1	It does not have oxidising properties	Added	
9.1	Explosive properties	Added	
9.1	Solubility	Added	
9.1	Colour	Modified	
9.1	Density	Modified	
9.1	Odour	Modified	
10.5	Incompatible materials	Modified	
11.1	Reason for no classification	Added	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	
13.1	Waste treatment methods	Modified	
13.1	Product/Packaging disposal recommendations	Modified	
13.1	European List of Waste (LoW) code	Modified	
15.1	British National Regulations	Added	
16	Data sources	Modified	

Abbreviations and acronyms:	
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
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

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Abbreviations and acronyms:

SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Data sources : ECHA Guidance on the compilation of safety data sheets
ECHA C&L Inventory database.
Supplier's safety documents.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-statements:

Carc. 2	Carcinogenicity, Category 2
EUH208	Contains . May produce an allergic reaction.
EUH210	Safety data sheet available on request.
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
H351	Suspected of causing cancer.

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.