

**SAFETY DATA SHEET**

Nippon Gohsei (UK) Limited

according to Regulation (EC) No. 1907/2006

**GOHSENX Z-type**

Revision Date 01.04.2013

Version 1.1

IE / EN

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

Trade name : GOHSENX Z-type  
Chemical Name : Modified polyvinyl alcohol  
CAS-No. : -  
Registration number : no data available

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

Use of the Sub- : Binder, Adhesives, Dispersing agent, Coatings  
stance/Mixture

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

Company : Nippon Gohsei (UK) Limited  
Soarnol House, Saltend  
Kingston upon Hull, HU12 8DS  
United Kingdom  
Telephone : +44 (0)1482 333320  
E-mail address : info@nippon-gohsei.com

**1.4 Emergency telephone number**

+44 (0)1865 407333  
(CARECHEM 24)

**2. Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Acute toxicity, Category 4	H312: Harmful in contact with skin.
Specific target organ toxicity - single exposure, Category 2	H371: May cause damage to organs.

**Classification (67/548/EEC, 1999/45/EC)**

Harmful	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.  R68/20/21/22: Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
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**2.2 Label elements**

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### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

: Warning

Hazard statements

: H302  
H312  
H332  
H371

Harmful if swallowed.  
Harmful in contact with skin.  
Harmful if inhaled.  
May cause damage to organs.

Precautionary statements

: **Prevention:**

P260

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264

Wash skin thoroughly after handling.

P271

Use only outdoors or in a well-ventilated area.

P280

Wear protective gloves/ protective clothing.

**Response:**

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P309 + P311

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician.

### Labelling according to EC Directives: 67/548/EEC

Hazard symbols



Harmful

R-phrases)

: R20/21/22

Harmful by inhalation, in contact with skin and if swallowed.

R68/20/21/22

Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

S-phrases(s)

: S22  
S36/37

Do not breathe dust.

Wear suitable protective clothing and gloves.

S60

This material and its container must be disposed of as hazardous waste.

### 2.3 Other hazards

Dust can form an explosive mixture in air.

## 3. Composition/information on ingredients

### 3.1 Substances

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The product is a chemical substance within the meaning of the REACH Regulation (1907/2006/EC). The following table contains the main constituent at the top. Further dangerous ingredients are mentioned when it is necessary in accordance with Appendix II No. 3.1 of the REACH Regulation.

Chemical Name	CAS-No.	EC-No.	Index-No.
		Registration number	
Modified polyvinyl alcohol	-		
methanol	67-56-1	200-659-6	603-001-00-X

**4. First aid measures****4.1 Description of first aid measures**

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- If inhaled : If breathed in, move person into fresh air. Call a physician immediately. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- In case of skin contact : Call a physician immediately. In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners.
- In case of eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

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

no data available

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

no data available

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**5. Fire-fighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Water, Alcohol-resistant foam, Carbon dioxide (CO<sub>2</sub>), Dry chemical

Unsuitable extinguishing media : High volume water jet

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during fire fighting : Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health.

**5.3 Advice for firefighters**

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**6. Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Sweep up to prevent slipping hazard. Remove all sources of ignition.

**6.2 Environmental precautions**

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Use mechanical handling equipment. Keep in suitable, closed containers for disposal. Clean contaminated surface thoroughly.

**6.4 Reference to other sections**

see chapter: 7, 8, 11, 12 and 13

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**7. Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : For personal protection see section 8. Avoid creating dust. Do not breathe dust. Avoid contact with skin and eyes. Handle with care.

Advice on protection against fire and explosion : Normal measures for preventive fire protection. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment.

Dust explosion class : no data available

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage : Incompatible with oxidizing agents.

Keep away from food, drink and animal feedingstuffs.

Other data : No decomposition if stored and applied as directed.

**7.3 Specific end uses**

no data available

**8. Exposure controls/personal protection****8.1 Control parameters**

Components	CAS-No.	Control parameters	Basis	Update
methanol	67-56-1	OELV - 8 hrs (TWA): 260 mg/m3, 200 ppm Sk, IOELV,	IE OEL	2010-04-30
Components	CAS-No.	Control parameters	Basis	Update
methanol	67-56-1	TWA: 260 mg/m3, 200 ppm skin,	2006/15/EC	2006-02-09

Other information on limit values: see chapter 16

**8.2 Exposure controls****Engineering measures**

Provide sufficient air exchange and/or exhaust in work rooms.

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### **Personal protective equipment**

**Respiratory protection** : Wear respiratory protection.  
Half mask with a particle filter P2 (EN 143).

### **Hand protection**

**Remarks** : Wear suitable gloves. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

**Eye protection** : Tightly fitting safety goggles

**Skin and body protection** : Wear suitable protective clothing.  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice.  
General industrial hygiene practice.  
Do not breathe dust.  
Avoid contact with skin, eyes and clothing.  
When using do not eat, drink or smoke.  
Wash hands before breaks and at the end of workday.  
Follow the skin protection plan.  
Wash contaminated clothing before re-use.

### **Environmental exposure controls**

**General advice** : Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.

## **9. Physical and chemical properties**

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

Appearance : powder, granular  
Colour : off-white, light yellow  
Odour : vinegar-like  
Odour Threshold : no data available  
Flash point : > 70 °C  
  
Ignition temperature : 440 °C

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Lower explosion limit : no data available  
Upper explosion limit : no data available  
Explosive properties : Not explosive

Flammability (solid, gas) : no data available  
Oxidizing properties : no data available  
Autoignition temperature : no data available  
Burning number : no data available  
Molecular Weight : no data available  
pH : no data available  
Melting point/range : 150 - 230 °C

Boiling point/boiling range : no data available  
Vapour pressure : no data available  
Density : 1,1 - 1,4 g/cm<sup>3</sup>

Bulk density : 300 - 800 kg/m<sup>3</sup>

Water solubility : completely soluble

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

Solubility in other solvents : insoluble  
Medium: ethyl acetate

insoluble  
Medium: Benzene

insoluble  
Medium: toluene

insoluble  
Medium: isobutyl methyl ketone

Viscosity, dynamic : no data available  
Viscosity, kinematic : no data available  
Flow time : no data available  
Impact Sensitivity : no data available  
Relative vapour density : no data available  
Surface tension : no data available  
Evaporation rate : no data available  
Minimum ignition energy : no data available  
Acid number : no data available  
Refraction index : no data available  
Miscibility in water : no data available  
Solvent separation test : no data available

**9.2 Other information**

None known.

**10. Stability and reactivity****10.1 Reactivity**

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no data available

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Stability: No decomposition if stored and applied as directed.  
Dust can form an explosive mixture in air.

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

Thermal decomposition : > 300 °C  
1.100 KJ/mol

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Acute oral toxicity : LD50 mouse: > 2.000 mg/kg

#### Acute inhalation toxicity:

methanol : LC50 (rat): 85 mg/l, 64000 ppm  
Exposure time: 4 h

#### Acute dermal toxicity:

no data available

#### Acute toxicity (other routes of administration):

no data available

#### Skin corrosion/irritation

Skin irritation : No skin irritation



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### Serious eye damage/eye irritation

#### Eye irritation

: slight irritation

Dust contact with the eyes can lead to mechanical irritation.

### Respiratory or skin sensitization

#### Sensitisation:

no data available

### Germ cell mutagenicity

#### Genotoxicity in vitro:

no data available

### Carcinogenicity

no data available

### Reproductive toxicity

no data available

### Teratogenicity

no data available

### STOT - single exposure

no data available

### STOT - repeated exposure

no data available

### Aspiration hazard

#### Aspiration toxicity

no data available

### Neurological effects

no data available

### Toxicology Assessment

#### Toxicology, Metabolism, Distribution

no data available

#### Acute effects

no data available

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**Further information**

methanol

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**12. Ecological information****12.1 Toxicity**Toxicity to daphnia and other aquatic invertebrates.

methanol

: EC50 (Daphnia magna (Water flea)): > 10.000 mg/l  
Exposure time: 48 h**12.2 Persistence and degradability**Biodegradability

methanol

: Result: Readily biodegradable.

**12.3 Bioaccumulative potential**Bioaccumulation

methanol

: Remarks:  
Bioaccumulation is unlikely.**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**Additional ecological information

: The product should not be allowed to enter drains, water courses or the soil.

**13. Disposal considerations****13.1 Waste treatment methods**

Advice on disposal and packaging

: Disposal:  
In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must be disposed of as hazardous waste. Do not dispose of together with household waste.  
Waste codes should be assigned by the user based on the application for which the product was used.

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**14. Transport information****ADR**

Not dangerous goods

**RID**

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

**Special precautions for user**

see chapter: 6, 7 and 8

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

Directive 96/82/EC : Update: 2003  
Directive 96/82/EC does not apply

Further information : Reserved for industrial and professional use.

**15.2 Chemical Safety Assessment**

no data available

**16. Other information****Full text of R-phrases referred to under sections 2 and 3**

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

**Full text of H-Statements referred to under sections 2 and 3.**

H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.  
H371 May cause damage to organs.

**Other information**

IOELV Indicative Occupational Exposure Limit Value  
Sk Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body  
skin Identifies the possibility of significant uptake through the skin

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