

SAFETY DATA SHEET

according to Regulation (EC) No.1907/2006

Nippon Gohsei (UK) Limited

GOHSENOL™ N-type

Revision Date 30.08.2016

Version 3.2

GB / EN

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : GOHSENOL™ N-type

Chemical Name : Polyvinyl alcohol

Registration number : no data available

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

Use of the substance/Mixture : Binding agents, Adhesives, Dispersing agent, Coatings

1.3 Details of the supplier of the safety data sheet

Company : Nippon Gohsei(UK) Limited

Soanol House, Saletend
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 407 333
(CARECHEM 24)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

It may cause dust explosion.
Dust can form an explosive mixture in air.

3. Composition/information on ingredients

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3.1 Substances

Chemical Name	CAS-No.	EC-No. Regulation number	Index-No.	Content
Polyvinyl alcohol	9002-89-5	209-183-3	-	>= 93.5%
Methanol	67-56-1	200-659-6	603-001-00-X	< 3.0%

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

- General advice : If you feel unwell, seek medical advice (show the label where possible).
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.
- In case of skin contact : Immediately flush skin with large amount of water.
- In case of eye contact : 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, DO NOT induce vomiting. If symptoms persist, call a physician. 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

5. Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing media : Water spray jet, Dry chemical

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 to firefighters : Wear self-contained breathing apparatus for fire fighting if necessary. Use personal protective equipment.

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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. Avoid dust formation. Avoid breathing dust. 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

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

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.

Advice on protection against fire and explosion : Normal measures for preventive fire protection. Take precautionary measures against static discharge. 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 : Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage : Keep away from food, drink and animal feeding stuffs. Keep away from oxidizing agents and strongly acid or alkaline materials. Never allow product to get in contact with water during storage.

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

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7.3 Specific end uses

no data available

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

Components	CAS-No.	Control parameter	Basis	Update
Methanol	67-56-1	STEL:333 mg/m ³ , 250ppm Sk TWA:266 mg/m ³ , 200ppm Sk	GB EH40	2005-04-06
Methyl acetate	79-20-9	STEL:770 mg/m ³ , 250ppm TWA:616 mg/m ³ , 200ppm	GB EH40	2005-04-06
Components	CAS-No.	Control parameter	Basis	Update
Methanol	67-56-1	TWA: 260 mg/m ³ , 200 ppm skin,	2006/15/EC	2006-02-09

Other information on limit values: see chapter 16

8.2 Exposure controls**Engineering measures**

Provide adequate ventilation.

Personal protective equipment

Respiratory protection : Respirator must be worn if exposed to dust.
Half mask with a particle filter P2 (EN 143).

Hand protection

Material : Rubber gloves

Remarks : 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 : Safety glasses

Skin and body protection : 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.

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Wash hands before breaks and at the end of workday.
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	: white, light yellow
Odour	: slight vinegar-like
Odour Threshold	: no data available
Flash point	: ≥ 70 deg C Method: closed cup
Ignition temperature	: no data available
Lower explosion limit	: 35 g/m^3
Upper explosion limit	: no data available
Explosive properties	: no data available
Flammability(solid, gas)	: no data available
Oxidizing properties	: no data available
Autoignition temperature	: 440 deg C
Burning number	: no data available
Molecular weight	: no data available
pH	: $5.0 - 7.0$
Melting point/range	: $150 - 230 \text{ }^\circ\text{C}$
Boiling point/boiling range	: no data available
Vapour pressure	: no data available
Density	: $1.19 - 1.31 \text{ g/cm}^3$
Bulk density	: $300 - 750 \text{ kg/m}^3$
Water solubility	: completely soluble
Partition coefficient: n-octanol/ water	: no data available
Solubility in other solvents	: insoluble
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

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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**

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. Exposure to moisture.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents, Strong acids and strong bases

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 : $\geq 200\text{ }^{\circ}\text{C}$
110 KJ/mol

11. Toxicological information**11.1 Information on toxicological effects****Acute toxicity**Acute oral toxicity : LD50 rat: > 2,000 mg/kgAcute inhalation toxicity

no data available

Acute dermal toxicity : LD50 rat: > 2,000 mg/kg

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Acute toxicity (other routes of administration):

no data available

Skin corrosion/irritation

Skin irritation : Species: rabbit
No skin irritation

Serious eye damage/eye irritation

Eye irritation : Species: rabbit
Slightly irritation

Respiratory or skin sensitization

Sensitisation:

no data available

Germ cell mutagenicity

Genotoxicity in vitro:

no data available

Carcinogenicity

Remarks : Carcinogenicity:
Did not show carcinogenic effects in animal experiments.

Mutagenicity:
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

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

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Neurological effects

no data available

Toxicology Assessment

Toxicology, Metabolism, Distribution

no data available

Acute effects

no data available

Further information

None known.

12. Ecological information

12.1 Toxicity

Toxicity to fish : LC50(Oryzias latipes(Orange-red killifish)): > 1,000 mg/l
Exposure time: 48 h

12.2 Persistence and degradability

Biodegradability : Result: Biodegradable

12.3 Bioaccumulative potential

no data available

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. 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

15.2 Chemical Safety Assessment

no data available

16. Other information**Other information**

Sk

skin

Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. Identifies the possibility of significant uptake through the skin

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.