NIPPON GOHSEI

SAFETY DATA SHEET Soarnol D2908HB

SECTION 1: Identification of	the substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product name	Soarnol D2908HB	
Product number	D2908HB	
Synonyms; trade names	Soarnol, EVOH, Ethylene Vinyl Alcohol Copolymer, Soarnol Barrier Resin	
CAS number	26221-27-2	
1.2. Relevant identified uses	of the substance or mixture and uses advised against	
Identified uses	Coextrusion	
1.3. Details of the supplier of	the safety data sheet	
Supplier	Nippon Gohsei (UK) Limited Soarnol House Saltend Kingston upon Hull HU12 8DS U.K T: +44 (0)1482 333320 F: +44 (0)1482 309332	
Contact person	info@nippon-gohsei.com	
1.4. Emergency telephone no	1.4. Emergency telephone number	
Emergency telephone	+44 (0)1865 407 333 (CARECHEM 24)	
SECTION 2: Hazards identifi	cation	
2.1. Classification of the subs	stance or mixture	
Classification (EC 1272/2008	<u> </u>	
Physical hazards	Not Classified	
Health hazards	Not Classified	
Environmental hazards	Not Classified	
Human health	The product is considered to be a low hazard under normal conditions of use. Heating may generate vapours which irritate the respiratory system. Dust may irritate the eyes and the respiratory system.	
Environmental	The product is not expected to be hazardous to the environment.	
2.2. Label elements		
Hazard statements	NC Not Classified	
2.3. Other hazards		

As supplied, the material does not present a health hazard. Emits vapours if heated. Dust may form explosive mixture with air.

SECTION 3: Composition/infor	rmation on ingredients
3.1. Substances	
Product name	Soarnol D2908HB
CAS number	26221-27-2
Composition comments	No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.
SECTION 4: First aid measure	95
4.1. Description of first aid mea	asures
Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.
Skin contact	Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues. Promptly rinse with plenty of water if hot material contacts the skin or non-impervious clothing. Get medical attention.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
4.2. Most important symptoms	and effects, both acute and delayed
Inhalation	Dust may cause slight irritation. Vapours may irritate throat/respiratory system.
Ingestion	Due to the physical nature of this product, it is unlikely that ingestion will occur. The product is considered to be a low hazard under normal conditions of use.
Skin contact	Dust may cause slight irritation. The product is considered to be a low hazard under normal conditions of use. Contact with hot product can cause serious thermal burns.
Eye contact	Particles in the eyes may cause irritation and smarting. Dust may cause slight irritation. The product is considered to be a low hazard under normal conditions of use.
4.3. Indication of any immediat	te medical attention and special treatment needed
Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
SECTION 5: Firefighting meas	ures
5.1. Extinguishing media	
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
5.2. Special hazards arising fro	om the substance or mixture
Specific hazards	Dust may form explosive mixture with air.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO2).
5.3. Advice for firefighters	
Protective actions during firefighting	In case of fire: Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Evacuate area. Avoid breathing fire gases or vapours.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
SECTION 6: Accidental releas	e measures

6.1. Personal precautions, protective equipment and emergency procedures	
Personal precautions	Wear protective clothing, gloves, eye and face protection. Contact with hot product can cause serious thermal burns. Avoid inhalation of dust.
6.2. Environmental precautions	
Environmental precautions	Not regarded as dangerous for the environment.
6.3. Methods and material for c	containment and cleaning up
Methods for cleaning up	Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Avoid generation and spreading of dust. Dust may form explosive mixture with air.
6.4. Reference to other section	<u>s</u>
Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.
SECTION 7: Handling and stor	age
7.1. Precautions for safe handl	ing
Usage precautions	For professional users only. Prevent accumulation of dust. Avoid inhalation of dust and vapours. Avoid contact with eyes and prolonged skin contact. Wear protective clothing, gloves, eye and face protection. Contact with hot product can cause serious thermal burns.
Advice on general occupational hygiene	Good personal hygiene procedures should be implemented. Wash hands thoroughly after handling.
7.2. Conditions for safe storage	e, including any incompatibilities
Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Do not store near heat sources or expose to high temperatures. Protect from light. Avoid contact with oxidising agents.
Storage class	Unspecified storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure Control	s/personal protection
8.1. Control parameters	
Ingredient comments	No exposure limits known for ingredient(s).
8.2. Exposure controls	
Protective equipment	
Appropriate engineering controls	Heating may generate vapours which irritate the respiratory system. Provide adequate ventilation.
Eye/face protection	Tight-fitting safety glasses.
Hand protection	Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures	No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. Wash hands thoroughly after handling.
Respiratory protection	No specific recommendations. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3.
Thermal hazards	If there is a risk of contact with hot product, all protective equipment worn should be suitable for use with high temperatures.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic phys	sical and chemical properties
Appearance	Pellets.
Colour	Yellow-white.
Odour	No characteristic odour.
Melting point	150-200°C
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No information available.
Bulk density	0.64-0.80 kg/m³
Solubility(ies)	Insoluble in water.
Auto-ignition temperature	>420°C
9.2. Other information	
Other information	Not available.
SECTION 10: Stability and rea	activity
10.1. Reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	Will not polymerise.
10.4. Conditions to avoid	
Conditions to avoid	Avoid excessive heat for prolonged periods of time.
10.5. Incompatible materials	
Materials to avoid	Strong oxidising agents.
10.6. Hazardous decomposition products	
Hazardous decomposition products	None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO2). Carbon monoxide (CO). Oxides of carbon.
SECTION 11: Toxicological information	

11.1. Information on toxicological effects **Toxicological effects** No information available. Acute toxicity - oral **Species** Rat LD50: >5000 mg/kg Notes (oral LD₅₀) Acute toxicity - dermal Notes (dermal LD₅₀) No information available. Acute toxicity - inhalation Notes (inhalation LC₅₀) No information available. Skin corrosion/irritation Animal data No information available. Serious eye damage/irritation Serious eye damage/irritation No information available. Respiratory sensitisation **Respiratory sensitisation** No information available. Skin sensitisation Skin sensitisation No information available. Germ cell mutagenicity Genotoxicity - in vivo This substance has no evidence of mutagenic properties. Carcinogenicity Carcinogenicity No information available. Reproductive toxicity Reproductive toxicity - fertility No information available. Specific target organ toxicity - single exposure STOT - single exposure No information available. Specific target organ toxicity - repeated exposure No information available. STOT - repeated exposure Inhalation No specific health hazards known. Acute and chronic health No specific health hazards known. Dust may irritate the respiratory system. hazards SECTION 12: Ecological Information Ecotoxicity Not regarded as dangerous for the environment. 12.1. Toxicity Acute toxicity - fish Not determined. 12.2. Persistence and degradability Persistence and degradability No data available. 12.3. Bioaccumulative potential

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Bioaccumulative potential	No data available on bioaccumulation.	
12.4. Mobility in soil		
Mobility	The product has poor water-solubility.	
12.5. Results of PBT and vPv	B assessment	
Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.	
12.6. Other adverse effects		
Other adverse effects	Not determined.	
SECTION 13: Disposal consid	lerations	
13.1. Waste treatment method	<u>ds</u>	
Disposal methods	Dispose of contents/container in accordance with local regulations. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.	
SECTION 14: Transport inform	nation	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).	
Road transport notes	Not classified.	
Rail transport notes	Not classified.	
Sea transport notes	Not classified.	
Air transport notes	Not classified.	
14.1. UN number		
Not applicable.		
14.2. UN proper shipping nam		
Not applicable.		
14.3. Transport hazard class(es)	
No transport warning sign req	uired.	
14.4. Packing group		
Not applicable.		
14.5. Environmental hazards		
Environmentally hazardous substance/marine pollutant No.		
14.6. Special precautions for user		
Not applicable.		
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code		
Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code		

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended). EH40/2005 Workplace exposure limits. Health and Safety at Work etc. Act 1974 (as amended).
EU legislation	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 (as amended). 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) (as amended).
Guidance	Workplace Exposure Limits EH40. Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	16/01/2018
Revision	10
Supersedes date	20/04/2017
SDS number	20319

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