

SAFETY DATA SHEET

(acc. to Regulation (EC) No 1907/2006 and (EU) No 453/2010)

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name	EXCELLEN GMH
Use of the substance / preparation	Resin & molding materials
Manufacture	Sumitomo Chemical Co., Ltd. Polyethylene Div. 27-1 Shinkawa 2-chome, Chuo-ku Tokyo 104-8260, Japan TEL +81-3-5543-5445 FAX +81-3-5543-5995
Emergency contact	Europe, Israel & America +44 (0)1235 239 670 Middle East & Africa +44(0)1235 239 671 Asia Pacific +65 3158 1074 China +86 10 5100 3039

2. HAZARDS IDENTIFICATION

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

Physical hazards:

Explosives	Not applicable
Flammable gases	Not applicable
Flammable aerosols	Not applicable
Oxidizing gases	Not applicable
Gases under pressure	Not applicable
Flammable liquids	Not applicable
Flammable solids	Classification not possible
Self-reactive substances and mixtures	Not applicable
Pyrophoric liquids	Not applicable
Pyrophoric solids	Not classified
Self-heating substances and mixtures	Classification not possible
Substances and mixtures which, in contact with water, emit flammable gases	Not applicable
Oxidizing liquids	Not applicable
Oxidizing solids	Not applicable
Organic peroxides	Not applicable
Corrosive to metals	Classification not possible

Health hazards:

Acute toxicity – oral	Not classified
Acute toxicity – dermal	Classification not possible
Acute toxicity – inhalation (gases)	Not applicable
Acute toxicity – inhalation (vapors)	Classification not possible
Acute toxicity – inhalation (dust, mist)	Classification not possible
Skin corrosion/irritation	Classification not possible
Serious eye damage/eye irritation	Classification not possible

Sensitization – respiratory	Classification not possible
Sensitization – skin	Classification not possible
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Not classified
Reproductive toxicity	Classification not possible
Specific target organ toxicity (Single exposure)	Classification not possible
Specific target organ toxicity (Repeated exposure)	Classification not possible
Aspiration hazard	Classification not possible
Environmental hazards:	
Hazardous to the aquatic environment - acute hazard	Classification not possible
Hazardous to the aquatic environment - chronic hazard	Classification not possible
Hazards to the ozone layer	Classification not possible

PICTOGRAM No pictogram that corresponds to the CLP criteria.

SIGNAL WORD No signal word that corresponds to the CLP criteria.

HAZARD STATEMENT

- No hazard statement that corresponds to the CLP criteria.

PRECAUTIONARY STATEMENTS

- No precautionary statement that corresponds to the CLP criteria.

Special Rules for Labelling and Packaging of Certain Substances and Mixtures

Melted polymer may cause burn in contact with skin or membrane.

Classification according to Directives 67/548/EEC and 1999/45/EC

Classification	Not classified.
Hazardous Symbol	No symbol.
Risk phrases	None.
Safety phrases	None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	Ethylene-1-Hexene Co-polymer	Other Additives
CAS No.	25213-02-9	-
wt. %	>99	0 – 1.0

4. FIRST AID MEASURES

First aid procedures
Inhalation

If inhale dusts, blow and gargle. If inhale the gas generated from the heated resin, remove to fresh air. Keep the inhaled person at rest in a position comfortable for breathing and warm by blanket. If not breathing, give

artificial respiration. If breathing is difficult, give oxygen. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Eye contact	Immediately hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. Remove contact lenses if present and easy to do. Do not rub nor tightly close eyes.
Skin contact	Remove contaminated clothing and shoes. Wash skin with cold or tepid water immediately. Get medical attention if irritation develops or persists. If contact with hot melted products, immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. Do not attempt to remove adhered material from skin or clothing.
Ingestion	Rinse mouth immediately with plenty of water and get medical attention. Never give anything by mouth to an unconscious person. If possible, induce vomiting only in conscious persons.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use powder, carbon dioxide, plenty of water spray or foam.
Extinguishing media which shall not be used for safety reasons	No information available.
Hazardous decomposition / combustion products	Thermal decomposition will produce CO.
Special Protective equipment for fire-fighters	Wear self-contained breathing apparatus and full protective clothing. Fight fire from safe distance. Dike area to prevent runoff from entering sewer or water sources. Evacuate personnel to a safe area. Keep personnel removed and upwind of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protection recommended in Section 8. Avoid breathe vapor or dusts generated from hot-melted resin. Evacuate personnel to a safe area. Keep unnecessary and unprotected personnel from entering.
Environmental precautions Methods for clean up of spill	Do not wash residues into drains or other waterways. Shut off leak if safe to do so. Eliminate ignition sources.

and leaks
Dust may cause fire or explosion hazard, if mixed with air or oxygen. Prepare extinguishing media for fire. Vacuum or sweep spilled material without scattering the dust and place in a disposal container. Contaminated area should be cleaned with detergent and water. Collect the contaminated water into the container and tightly closed it.

7. HANDLING AND STORAGE

Handling
Use personal protection recommended in Section 8. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. To avoid dust generation and diffusion, use local exhaust or general ventilation. Avoid contact with clothing, skin and eyes, and breathe dust. Wash hands and face thoroughly after handling. Remove contaminated clothing and wash before reuse. Keep away from all ignition sources. Use explosion-proof electric equipment. Prevent build-up of electrostatic charges. Do not subject to rough handling such as grinding, shock or friction. Dispose of molding remainders after cool well.

Storage
Store in cool place, well-ventilated place. Keep away from fire, heat-source and strong oxidizer. Avoid direct sunlight, outdoor, high temperature or humidity and water splay. Store locked up.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limit values
<ACGIH>
[PNOS] Particles (Insoluble or poorly soluble) Not Otherwise Specified
TLV-TWA: 3 mg/m³ (Respirable Particles)
10 mg/m³ (Inhalable Particles)
<DFG>
[Dust, general threshold limit value]
MAK: 1.5 mg/m³ (Respirable fraction)
4 mg/m³ (Inhalable fraction))

Exposure controls
Occupational exposure controls
Provide adequate ventilation, if generate dusts. Equipped with safety shower and eye-wash facilities near the treatment area.

Respiratory protection
Hand protection
Eye protection
Skin protection
Wear a dust protective mask.
Wear protective gloves.
Wear glasses with sidepieces or face shield.
Wear protective clothing, cap and boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical state	Solid (Pellet)
Color	White or milk-white
Odor	Odorless
Flash point	Not available.
Melting point	90 - 130°C (Depends on grade)
Boiling point	Not available.
Ignition point	349°C
Combustibility	Flammable
Explosive range	Lower limit of dust explosion: 15 g/m ³ (Average particle diameter: 24 μ m) 30 g/m ³ (Average particle diameter : 105 μ m)
Vapor pressure	Not available.
Vapor density	Not available.
Decomposition temperature	Not available.
Specific gravity	910 – 940 kg/cm ³ (Depends on grade)
Solubility in water	Insoluble.
Solubility in organic solvents	Not available.
Octanol Water Partition Coefficient	Not available.

10. STABILITY AND REACTIVITY

Conditions to avoid	Fire, heat source, and accumulation of electro-static charge.
Materials to avoid	Strong oxidizer.
Hazardous decomposition products	Emits toxic fumes of CO under fire conditions.

11. TOXICOLOGICAL INFORMATION

No data is available for this product. The following are the data for polyethylene [Ethylene Homo-polymer].

Acute toxicity	
Oral	LD ₅₀ >3000 mg/kg (rats)
Inhalation (dust, mist)	LC ₅₀ (30min.) 75.5g/m ³ (rats) (Converted in 4hr: 9.44 mg/L)
Skin corrosion/irritation	May cause skin irritation.
Serious eye damage/eye irritation	May cause eye irritation.
Respiratory sensitization	No information available.

Skin sensitization	No information available.
Germ cell mutagenicity	Ames test: Negative.
Carcinogenicity	Carcinogenicity study in rats, mice and hamsters (Observed for 1 - 2years after subcutaneous implantation or intra-peritoneal administration): Observed fibrosarcoma at the site of administration. (Evaluation of carcinogenicity) IARC: Group3.
Reproductive toxicity	No information available.
Specific target organ toxicity (Single exposure)	Not specified the target organ. May cause cough, when inhaled. (human)
Specific target organ toxicity (Repeated exposure)	Not specified the target organ. Ninety-days feeding study in rats (HDPE): No toxic effect was observed. (NOAEL: 50000ppm)
Aspiration hazard	No information available.

12. ECOLOGICAL INFORMATION

No data is available for this product. The following are the data for polyethylene [Ethylene Homo-polymer].

Acute hazard	No information available.
Chronic hazard	No information available.
Mobility	No information available.
Persistence and degradability	Undegradable for a long term in environment.
Bio-accumulative potential	No information available.
Hazards to the ozone layer	No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of wastes and used containers must be in accordance with applicable federal, state and local regulations. Ensure disposal in compliance with government requirements. Do not contaminate surface water or sanitary sewer system.

14. TRANSPORT INFORMATION (not meant to be all-inclusive)

Proper Shipping Name	-
UN Number	Not listed.
Class	Not classified.
Sub risk	-
Packing group	-
IMO Hazardous Material	Not regulated.
IATA Dangerous Goods	Not regulated.
RID/ADR Dangerous Goods	Not regulated.

15. REGULATORY INFORMATION (not meant to be all-inclusive)

EINECS number [Ethylene-1-hexene co-polymer]
Co-polymer of the existing monomers.

This product is followed by the competent regulations in an applicable country or region.

16. OTHER INFORMATION

No information available.

This information only concerns the above-mentioned product and does not need to be valid if used with other(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

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