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Safety Data Sheet

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade Name	Rigidex HD5218EA
Product Name	Ethylene Butene 1 Copolymer
CAS No.	25087-34-7
EINECS No.	None assigned.
REACH Registration No.	None assigned (Polymer).

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

Identified use(s)	Industrial use.
Uses advised against	None known.

1.3 Details of the supplier of the Safety Data Sheet

Company Identification	INEOS Olefins & Polymers Europe Clayhill House Beechen Lane Lyndhurst Hampshire S043 7DD United Kingdom
E-Mail (competent person)	psnohreg@ineos.com

1.4 Emergency telephone number

Carechem 24	+44 1235 23 96 70

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Not classified as dangerous for supply/use.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name	Ethylene Butene 1 Copolymer
Hazard pictogram(s)	None.
Signal word(s)	None.
Hazard statement(s)	None.
Precautionary statement(s)	None.

2.3 Other hazards

The molten form can cause thermal burns if in contact with skin.
Eye Contact: Dust may cause irritation.

2.4 Additional Information

None.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

EC Classification No. 1272/2008

Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Ethylene Butene 1 Copolymer	>99	25087-34-7	None assigned	None assigned (Polymer)	None

3.2 Additional Information

None.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation — If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, obtain medical attention.

Skin Contact — Molten material can cause severe burns. Do NOT try to peel molten material from the skin. Cool rapidly with water.

Eye Contact — Flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, obtain medical attention.

Ingestion — Rinse mouth. Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed — The molten form can cause thermal burns if in contact with skin.

Eye Contact: Dust may cause irritation.

4.3 Indication of any immediate medical attention and special treatment needed — Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media — Extinguish with carbon dioxide, dry chemical, foam or waterspray.

Unsuitable Extinguishing Media — Do not use water jet.

5.2 Special hazards arising from the substance or mixture — Decomposition products: Carbon monoxide, Carbon dioxide.

5.3 Advice for firefighters — Do not breathe fumes/vapour from heated product. Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions, protective equipment and emergency procedures**	Ensure adequate ventilation. Caution - spillages may be slippery. Wear protective gloves/protective clothing/eye protection/face protection.
6.2	**Environmental precautions**	Do not allow to enter drains, sewers or watercourses.
6.3	**Methods and material for containment and cleaning up**	Sweep up spilled substance. Collect spillage. Use vacuum equipment for collecting spilt materials, where practicable. Transfer to a container for disposal.
6.4	**Reference to other sections**	See Section: 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1	**Precautions for safe handling**	Ensure adequate ventilation. Take precautionary measures against static discharge. Avoid accumulation of dust. Avoid contact with heated or molten product. Wear protective gloves/protective clothing/eye protection/face protection. See Section: 8. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
7.2	**Conditions for safe storage, including any incompatibilities**	Store in a cool/low-temperature, well-ventilated (dry) place. It is recommended not to double stack octabins.
	Storage Temperature	Ambient.
	Storage Life	Stable under normal conditions.
	Incompatible materials	Strong oxidising agents.
7.3	**Specific end use(s)**	Industrial use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Ethylene Butene 1 Copolymer	25087-34-7	-	10	-	-	Inhalable Dust: UK WEL
		-	10	-	-	Inhalable Dust: US ACGIH
		-	4	-	-	Respirable Dust: UK WEL
		-	3	-	-	Respirable Dust: US ACGIH

WEL: Workplace Exposure Limit (UK HSE EH40)
ACGIH: American Conference of Industrial Hygienists

8.1.2 Biological limit value — Not established.

8.1.3 PNECs and DNELs — Not established.

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8.2	**Exposure controls**	
8.2.1	**Appropriate engineering controls**	Local exhaust recommended.
8.2.2	**Individual protection measures, such as personal protective equipment**	
	Eye/face protection	Wear suitable eye/face protection. Wear eye protection with side protection (EN166).
	Skin protection (Hand protection/ Other)	Wear impervious gloves (EN374).
	Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. A suitable dust mask or dust respirator with filter type P (EN143 or EN405) may be appropriate.
	Thermal hazards	When dealing with heated material: Wear insulating gloves EN407 (heat).
8.2.3	**Environmental exposure controls**	No special measures are required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	**Information on basic physical and chemical properties**	
	Appearance	Crystalline powder/ Granules.
	Colour	Off-white.
	Odour	Odourless.
	Odour Threshold	Not established.
	pH	Not applicable.
	Melting Point/Freezing Point	105 - 125°C
	Initial boiling point and boiling range	Not available.
	Flash point	>300°C
	Evaporation rate	Not applicable.
	Flammability (solid, gas)	Non-flammable.
	Upper/lower flammability or explosive limits	Not applicable.
	Vapour pressure	Not applicable.
	Vapour density	Not applicable.
	Density	<1
	Solubility(ies)	Insoluble.
	Partition coefficient: n-octanol/water	Not applicable.
	Auto-ignition temperature	>350°C
	Decomposition Temperature	Not available.
	Viscosity	Not applicable.
	Explosive properties	Not explosive.
	Oxidising properties	Not oxidising.
9.2	**Other information**	None.

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SECTION 10: STABILITY AND REACTIVITY

10.1	**Reactivity**	Upon prolonged heating above 300 °C decomposition products may be released. High concentrations of vapour may be irritant to the respiratory tract.
10.2	**Chemical stability**	Stable under normal conditions.
10.3	**Possibility of hazardous reactions**	Dust may form explosive mixtures with air.
10.4	**Conditions to avoid**	None anticipated.
10.5	**Incompatible materials**	Strong oxidising agents.
10.6	**Hazardous Decomposition Product(s)**	Carbon monoxide, Carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	**Information on toxicological effects**	
	Acute toxicity	Low acute toxicity.
	Skin corrosion/irritation	Non-irritant. The molten form can cause thermal burns if in contact with skin.
	Serious eye damage/irritation	Dust may cause irritation.
	Respiratory or skin sensitization	It is not a skin sensitiser.
	Germ cell mutagenicity	There is no evidence of mutagenic potential.
	Carcinogenicity	No evidence of carcinogenicity.
	Reproductive toxicity	Not classified.
	STOT - single exposure	None anticipated.
	STOT - repeated exposure	None anticipated.
	Aspiration hazard	Not classified.
11.2	**Other information**	None.

SECTION 12: ECOLOGICAL INFORMATION

12.1	**Toxicity**	Low toxicity to aquatic organisms.
12.2	**Persistence and degradability**	The product is not biodegradable.
12.3	**Bioaccumulative potential**	The product has no potential for bioaccumulation.
12.4	**Mobility in soil**	Insoluble in water. The product is predicted to have low mobility in soil.
12.5	**Results of PBT and VPVB assessment**	Not classified as PBT or vPvB.
12.6	**Other adverse effects**	None.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	Recover or recycle if possible. Bury on an authorised landfill site or incinerate under approved controlled conditions.
13.2	**Additional Information**	Disposal should be in accordance with local, state or national legislation.

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SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

14.1	**UN number**	Not applicable.
14.2	**UN Proper Shipping Name**	Not applicable.
14.3	**Transport hazard class(es)**	Not applicable.
14.4	**Packing Group**	Not applicable.
14.5	**Environmental hazards**	Not applicable.
14.6	**Special precautions for user**	Not applicable.
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code**	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**	
	Authorisations and/or restrictions on use	
	Candidate List of Substances of Very High Concern for Authorisation	Not listed.
	REACH: ANNEX XIV list of substances subject to authorisation	Not listed.
	REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not listed.
	Community Rolling Action Plan (CoRAP)	Not listed.
15.1.2	**National regulations**	Not available.
15.2	**Chemical Safety Assessment**	Not available.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative

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Prepared by	Product Stewardship NOH

Safety Data Sheet

Disclaimer

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfil his obligations regarding the use of hazardous products. This information is not exhaustive. This does not exonerate the user from ensuring that legal obligations, other than those mentioned, relating to the use and storage of the product, do not exist.This is solely his responsibility.

Annex to the extended Safety Data Sheet (eSDS)
Not necessary/provided because the substance is not classified hazardous.