



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 HD5211EA
	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 psnohreg@ineos.com
	E-Mail (competent person)	
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	Product Name	According to Regulation (EC) No. 1272/2008 (CLP) 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. Rinse mouth. Seek medical treatment.

Ingestion

The molten form can cause thermal burns if in contact with skin.

4.2 Most important symptoms and effects, both acute and delayed

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**
 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/m ³)	STEL (ppm)	STEL (mg/m ³)	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.