

# EU SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Date of print: 16.09.2009

Revision date: 02.06.2009

Date of first version: 02.06.2009

## LUSTRAN / NOVODUR ABS Pellets

Material number ABS005

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### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or preparation

Name of product: LUSTRAN / NOVODUR ABS Pellets

#### Use of the substance / preparation

for the production of moulded plastic articles

#### Company / undertaking identification

Company name: INEOS (Deutschland) GmbH

Street/POB-No.: Alte Strasse 201

State/city/postal code: D-50769 Koeln

World Wide Web: www.lustran-polymers.com

Email: info@lustran-polymers.com

Telephone: +49 (0) 2133 / 551

Dept. responsible for information:

Telephone: +44 (0) 2380 287295, E-mail infomsds@lustran-polymers.com

Additional information: This safety data sheet pertains to all the products listed in chapter 16.

#### Emergency telephone

National Chemical Emergency Centre (UK),

Telephone: +44 (0) 208 762 8322

### 2. Hazards identification

#### Classification according to directive 67/548/EEC or 1999/45/EC:

This preparation is classified as not hazardous.

#### Critical hazard to man and environment:

Under the recommended processing conditions small amounts of emitted substance (e.g. residual monomers, residual solvents, decomposition products) may be discharged. In succession of overheating during the melting process potentially substances are released, which are considered as harmful and carcinogen.

The melted product can cause severe burns.

### 3. Composition/information on ingredients

Chemical characterization (preparation)

Acrylonitrile-butadiene-styrene copolymer

Dangerous ingredients:

CAS-No.	EINECS / ELINCS	Chemical name	Content	Classification
100-41-4	202-849-4	Ethylbenzene	(in traces)	F, Xn; R 11, 20
100-42-5	202-851-5	Styrene monomer	(in traces)	R10. Xn; R20. Xi; R36/38
107-13-1	203-466-5	Acrylonitrile	(in traces)	F, T, N; Carc.Cat.2; R 45, 11, 23/24/25, 37/38, 41, 43, 51/53
106-99-0	203-450-8	1,3-Butadiene	(in traces)	F+, T; Carc.Cat.1; Muta.Cat.2; R 45, 46, 12
100-40-3	202-848-9	4-Vinylcyclohexene	(in traces)	Carc. Cat. 3; R40. F; R11. R52-53. Repr. Cat. 3; R62. Xi; R38

### 4. First aid measures

Following inhalation:

In case of inhalation of decomposition products, take the affected person into the fresh air and sit him quietly. In case of breathing difficulties administer oxygen. In case of breathing stop use artificial aspiration immediately. Seek medical attention.

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After skin contact: Following contact with the melted product, quickly cool affected skin area with water. Do not try to remove product crusts from affected parts of the skin by force or by using solvents. Cover with sterile dressing material to protect against infection. Seek medical attention.

After swallowing: Consult physician.

### 5. Fire fighting measures

Suitable extinguishing media:

Water fog, foam, dry extinguishing powder, carbon dioxide.

Special exposure hazards arising from the preparation itself, combustion products, resulting gases:

Can be released in case of fire: Nitrogen oxides (NO<sub>x</sub>), carbon monoxide and carbon dioxide.

Special protective equipment for fire-fighters:

Wear self-contained breathing apparatus. Suitable protective clothing.

Additional information:

Seal off endangered area. Guide people to safety.

Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

### 6. Accidental release measures

Personal precautions:

Keep the molten mass away from the eyes and the skin.

Where there is a risk of exothermal decomposition as a result of overheating (rise in temperature, formation of fumes or smoke) cool the melt in a water bath. Do not inhale vapours. Provide adequate ventilation. Provide a conveniently located respiratory protective device.

Environmental precautions: Avoid release to the environment.

Methods for cleaning up:

Collect mechanically.

Additional information:

Granulate: High slip hazard because of leaking or spilled product.

### 7. Handling and storage

#### Handling

Information for safe handling:

In case of melting: To avoid thermal decomposition, do not overheat.

Make sure there is sufficient air exchange and / or that working rooms are air suctioned.

Avoid exceeding WEL threshold levels. Do not inhale vapours.

After work, wash hands and face.

For mechanical processing:

Do not breathe dust. Vent dust from the work area.

Avoid dust formation during reggranulation.

#### Storage

Requirements for storerooms and containers:

Keep container dry. Store only in original container.

Storage class:

11

### 8. Exposure controls / Personal protection equipment

#### Exposure limit values

CAS-No.	Chemical name	Type	Value
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CAS-No.	Chemical name	Type	Value
100-41-4	Ethylbenzene	Great Britain: WEL-TWA	100 ppm
		Great Britain: WEL-TWA	441 mg/m <sup>3</sup>
		Great Britain: WEL-STEL	125 ppm
		Great Britain: WEL-STEL	552 mg/m <sup>3</sup>
		Europe, IOELV: TWA	Skin 100 ppm
		Europe, IOELV: TWA	Skin 442 mg/m <sup>3</sup>
		Europe, IOELV: STEL	Skin 200 ppm
		Europe, IOELV: STEL	Skin 884 mg/m <sup>3</sup>
100-42-5	Styrene monomer	Great Britain: WEL-TWA	100 ppm
		Great Britain: WEL-TWA	430 mg/m <sup>3</sup>
		Great Britain: WEL-STEL	250 ppm
		Great Britain: WEL-STEL	1080 mg/m <sup>3</sup>
107-13-1	Acrylonitrile	Great Britain: WEL-TWA	2 ppm
		Great Britain: WEL-TWA	4,4 mg/m <sup>3</sup>
106-99-0	1,3-Butadiene	Great Britain: WEL-TWA	10 ppm
		Great Britain: WEL-TWA	22 mg/m <sup>3</sup>

Additional information:

Information about acrylonitrile and butadiene: carcinogenic effect.

Additional protective measures:

- Measurements for the early detection of increased exposure as a result of an unforeseen incident;
- Dangerous areas must be delimited and marked with appropriate warning and safety signs. Smoking is forbidden.
- The air, filtered by suction, must only be let back into the working environment following sufficient cleaning with approved equipment.

### Exposure controls

In case of melting:

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

See also information in chapter 7, section storage.

### Occupational exposure controls

Respiratory protection:

In case of dust: particulates filter P1 according to EN 143.

Respiratory protection must be worn whenever the WEL levels have been exceeded.

Use filter apparatus type A (= against vapours of organic substances) according to EN 141.

Hand protection:

Chemically resistant gloves according to EN 374 or

Protective gloves against thermic risks according to EN 407.

Glove material: Leather.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

In case of melting:

Protective gloves against thermic risks.

Eye protection:

Tightly sealed safety glasses according to EN 166.

Skin protection:

Wear suitable protective clothing.

In case of dust: Overall

General protection and hygiene measures:

Change contaminated clothing.

Wash contaminated clothing prior to re-use.

When using do not eat, drink or smoke.

Wash hands before breaks and at the end of work.

Safety shower and eye wash station should be easily accessible to the work area.

### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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### 9. Physical and chemical properties

#### Appearance

Physical state: solid, granulate  
Colour: varying, depends on colouring  
Odour: characteristic

#### Important health, safety and environmental information

Melting point / melting range (Softening temperature) 95 - 105 °C  
Ignition temperature > 300 °C  
Package density: 500-700 kg/m<sup>3</sup>  
Solubility in water: insoluble  
Thermal decomposition: > 300 °C

### 10. Stability and reactivity

Hazardous decomposition products:

Can be released in case of fire: Nitrogen oxides (NO<sub>x</sub>), carbon monoxide and carbon dioxide.

Thermal decomposition: > 300 °C

Additional information: product is stable.

### 11. Toxicological information

#### General remarks

There are no known health risks.

Under the recommended processing conditions small amounts of emitted substance (e.g. residual monomers, residual solvents, decomposition products) may be discharged. In succession of overheating during the melting process potentially substances are released, which are considered as harmful and carcinogen.

The melted product can cause severe burns.

### 12. Ecological information

#### Ecotoxicity

Water Hazard Class: nwg = not a water pollutant (WGK catalog number 766) (plastic granulate)

#### Details of elimination

Further details: Product is not easily biodegradable.  
Due to the consistency along with the low water solubility of the product, bioavailability is unlikely.

#### Additional ecological information

General information: Dumping into the environment must be prevented.

### 13. Disposal considerations

#### Product

Waste key number 070213 = Waste plastic

Recommendation: Recycling or special waste incineration.

After appropriate treatment the product can be remelted and reprocessed into new moulded articles. Mechanical recycling is only possible if the material has been selectively retrieved and carefully segregated according to type.

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### Contaminated packaging

Recommendation: Cleaned containers may be recycled. If recycling is not practicable, dispose of in compliance with local regulations.

## 14. Transport information

### Overland transport (ADR/RID)

Product designation: Not restricted

### Transport by sea (IMDG)

Proper shipping name: Not restricted

### Air transport (IATA)

Proper shipping name: Not restricted

### Additional information

Not a hazardous material with respect to transportation regulations.

## 15. Regulatory information

### Classification

Code letter and hazard symbol:

not applicable

R phrase(s): not applicable

S phrase(s): not applicable

### National regulations

#### National regulations - Germany

Storage class: 11

Water Hazard Class: nwg = not a water pollutant (WGK catalog number 766) (plastic granulate)

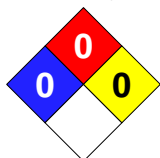
Informations on working limitations:

Observe employment restrictions concerning young persons.

Observe employment restrictions for expectant or nursing mothers.

#### National regulations - USA

Hazard rating systems



NFPA Hazard Rating:

Health: 0 (Minimal)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 0 (Minimal)

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
	X

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### 16. Other information

#### Further remarks

This safety data sheet pertains to the following products:

ABS PRECO BMGV-P 41, BMGV-P 50, BMGV-P 67

ABS PRECO EXP

ABS PRECO P-60-P37, P-60-P50

ABS PRECO P60P50 DN50 000000

BAYMOD A 80

LUSTRAN ABS 248 FC, ABS 250, ABS 348, ABS 450, ABS 595CP, ABS 650

LUSTRAN ABS C110, ABS C112

LUSTRAN ABS DIN 611

LUSTRAN ABS DP C111

LUSTRAN ABS DP E114, E309, E511

LUSTRAN ABS DP M202AS, M204PG

LUSTRAN ABS E112LG 000000

LUSTRAN ABS E401

LUSTRAN ABS H604, H604LS, H605, H606LS, H607AS

LUSTRAN ABS M201, M201AS, M202AS, M203, M203FC, M205FC, M210 TF

LUSTRAN ABS M301AS, M301FC, M302, M304, M305, M306, M307

LUSTRAN ABS PG 298

LUSTRAN ABS QE 525, QE 535

LUSTRAN LGE

NOVODUR DP P4LG

NOVODUR P2H-AT, P2HE, P2K, P2L-AT

NOVODUR P2M, P2M-AT, P2MC, P2M-V

NOVODUR P2X, P2X/L

NOVODUR P3H-AT, P3M, P3M-AT

R phrase(s):

R 45 = May cause cancer.

R 46 = May cause heritable genetic damage.

R 10 = Flammable.

R 11 = Highly flammable.

R 12 = Extremely flammable.

R 20 = Harmful by inhalation.

R 23/24/25 = Toxic by inhalation, in contact with skin and if swallowed.

R 36/38 = Irritating to eyes and skin.

R 37/38 = Irritating to respiratory system and skin.

R 38 = Irritating to skin.

R 40 = Limited evidence of a carcinogenic effect.

R 41 = Risk of serious damage to eyes.

R 43 = May cause sensitization by skin contact.

R 51/53 = Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 52/53 = Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 62 = Possible risk of impaired fertility.

#### Group that issues data sheet

Contact person: see chapter 1, department responsible for information.

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.