SAFETY DATA SHEET

LUSTRAN / NOVODUR ABS Pellets

INEOS ABS

00000005

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

Identification of the substance or preparation

Product name	:	LUSTRAN / NOVODUR ABS Pellets
Use of the substance/preparation	:	Production of moulded plastic articles
Supplier/Manufacturer	:	INEOS ABS (Spain), S.L. Polígono Industrial, Ctra. de Vilaseca - La Pineda. 43006 Tarragona, Spain Telephone: +49 214 30 65109, E-Mail: infosds@lanxess.com
Emergency telephone number	:	0870 190 6777. National Chemical Emergency Centre

2. HAZARDS IDENTIFICATION

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product definition (REACH) : Preparation

acrylonitrile-butadiene-styrene copolymer

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU or national regulations.

4. FIRST AID MEASURES

First-aid measures

Inhalation	:	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Skin contact	:	CONTACT WITH THE HOT MELT: Cooling immediately with plenty of water. Do not remove product crusts which may have formed neither forcibly nor by applying any solvents to the skin involved. In order to obtain medical care for possible burns and for a smooth cleansing of the skin, seek medical advice immediately.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable : In case of fire, use water spray (fog), foam, dry chemical or CO_2.

Not suitable : None known.

Special exposure hazards : No specific fire or explosion hazard.

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Hazardous combustion products : Decomposition products may include the following materials:
carbon oxides
nitrogen oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Granular solid. Hazard of slipping on spilt product. Melt: 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

Environmental precautions : No special measures required.

Large spill : Take up mechanically.

Small spill : Take up mechanically.

7. HANDLING AND STORAGE

Handling : Provided good ventilation and/or local exhaust systems are used, the Occupational Exposure Limit(s) stated in Chapter 8 should not be exceeded. Dust must be removed by effective extraction. During regranulation avoid formation of dust.

Avoid inhaling vapours. Avoid inhaling dust. Grease skin. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. When using do not eat, drink or smoke.

Storage : Store in a dry place.

Packaging materials

Recommended : Use original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The regulations for the substances listed below must be observed when processing this product, particularly if processing takes place at elevated temperatures. In our experience the provision of effective fresh-air and exhaust ventilation equipment at the points where vapors may be generated will ensure compliance with the tolerance limits quoted below.

Ingredient name	Occupational exposure limits

Ingredient name	Occupational exposure limits
ethylbenzene	**EH40-WEL (United Kingdom (UK), 8/2007). Skin** WEL 15 min limit: 552 mg/m³ 15 minute(s). WEL 8 hrs limit: 441 mg/m³ 8 hour(s).
styrene	**EH40-WEL (United Kingdom (UK), 8/2007).** WEL 15 min limit: 1080 mg/m³ 15 minute(s). WEL 8 hrs limit: 430 mg/m³ 8 hour(s).
acrylonitrile	**EH40-WEL (United Kingdom (UK), 8/2007). Skin** WEL 8 hrs limit: 4.4 mg/m³ 8 hour(s).
1,3-butadiene	**EH40-WEL (United Kingdom (UK), 8/2007).** WEL 8 hrs limit: 22 mg/m³ 8 hour(s).

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Risk management measures

Occupational exposure controls

Technical measures : Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protection measures

Respiratory protection : In case of dust formation use respiratory equipment with filter type particle filter P1 according to DIN EN 143.

Hand protection : Protective gloves of leather, contaminated or damaged gloves should be replaced.

Eye protection : Protective goggles with side shield or tightly fitting protective goggles

Skin protection : Skin covering working clothes; wear dust-proof overalls if large quantities of dust are generated.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Environmental exposure controls

Technical measures : 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

Physical state : Solid. [Granular solid.]

Colour : colourless, or as pigmented

Odour : Characteristic.

Important health, safety and environmental information

Melting point : 95 to 105°C (203 to 221°F)(Softening point)

Bulk density: : 500 to 700 kg/m^3

Solubility : Insoluble in the following materials: cold water

Ignition temperature: : >300°C

10. STABILITY AND REACTIVITY

Stability : The product is stable.

Decomposition temperature : >300°C

Hazardous decomposition products : Caused by smouldering and incomplete combustion toxic fumes mainly consisting of CO and CO_2 may be developed. Degradation products of the polymers and their additives may also be formed.

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Under the recommended processing conditions small amounts of emitted substance (e.g. residual monomers, residual solvents, decomposition products) may be discharged. According to our experience and information the product has no harmful effects on health if properly handled.

12. ECOLOGICAL INFORMATION

The product is practically insoluble in water. In view of its consistency and insolubility in water, no ecological problems are to be expected if the product is properly handled. This product is not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Methods of disposal : The product is suitable for mechanical recycling. After appropriate treatment it 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. May only be transported to suitable incinerator with reduced non-air emis- sions observing local official regulations. May be disposed of together with household refuse if local official regulations are observed.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

14. TRANSPORT INFORMATION

Regulation	UN number	Proper shipping name	Class	PG	Label	Additional information
ADR/RID	-	-	-	-	-	Not regulated.
GGVSE	-	-	-	-	-	Not regulated.
ADNR	-	-	-	-	-	Not regulated.
IMDG	-	-	-	-	-	Not regulated.
IATA	-	-	-	-	-	Not regulated.

PG: Packing group

Not dangerous cargo.
Keep dry.

15. REGULATORY INFORMATION

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Industrial applications.

Risk phrases : This product is not classified according to EU legislation.

16. OTHER INFORMATION

Remarks : The Safety Data Sheet is valid for:
ABS PRECO BMGV-P 41
ABS PRECO BMGV-P 50
ABS PRECO BMGV-P 67
ABS PRECO EXP
ABS PRECO P-60-P37
ABS PRECO P-60-P50
ABS PRECO P60P50 DN50 000000
BAYMOD A 80
LUSTRAN ABS 248 FC
LUSTRAN ABS 250
LUSTRAN ABS 348
LUSTRAN ABS 450
LUSTRAN ABS 595CP
LUSTRAN ABS 650
LUSTRAN ABS C110
LUSTRAN ABS C112
LUSTRAN ABS DIN 611
LUSTRAN ABS DP C111
LUSTRAN ABS DP E114
LUSTRAN ABS DP E309
LUSTRAN ABS DP E511

LUSTRAN ABS DP M202AS
LUSTRAN ABS DP M204PG
LUSTRAN ABS E112LG 000000
LUSTRAN ABS E401
LUSTRAN ABS H604
LUSTRAN ABS H604LS
LUSTRAN ABS H605
LUSTRAN ABS H606LS
LUSTRAN ABS H607AS
LUSTRAN ABS M201
LUSTRAN ABS M201AS
LUSTRAN ABS M202AS
LUSTRAN ABS M203
LUSTRAN ABS M203FC
LUSTRAN ABS M205FC
LUSTRAN ABS M210 TF
LUSTRAN ABS M301AS
LUSTRAN ABS M301FC
LUSTRAN ABS M302
LUSTRAN ABS M304
LUSTRAN ABS M305
LUSTRAN ABS M306
LUSTRAN ABS PG 298
LUSTRAN ABS QE 525
LUSTRAN ABS QE 535
LUSTRAN ABS M307
LUSTRAN LGE
NOVODUR DP P4LG
NOVODUR P2H-AT
NOVODUR P2HE
NOVODUR P2K
NOVODUR P2L-AT
NOVODUR P2M
NOVODUR P2M-AT
NOVODUR P2MC
NOVODUR P2M-V
NOVODUR P2X
NOVODUR P2X/L
NOVODUR P3H-AT
NOVODUR P3M
NOVODUR P3M-AT

History

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Notice to reader

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance.