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Mouldlife

MOULDING • CASTING • PROTOTYPING • SFX

Safety Data Sheet

Baldiez Beads

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier: Baldiez® Beads (NO ACETONE)

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Identified uses: Polyester Aromatic

Uses advised against: None identified.

1.3 Supplier:

Mouldlife Limited,
Unit D + E, Anglian Lane, Bury St Edmunds
IP32 6SR, Suffolk
Telephone: +44 (0) 1638 750 679

1.4 Emergency Telephone Number: +44 (0) 1638 750 679

Section 2: Hazards identification

2.1 Classification of the substance or mixture:

This product does not meet the classification requirements of the current European legislation.
Classification according to Regulation (EC) No 1272/2008 as amended: Not classified

2.2. Label elements according to Regulation (EC) No 1272/2008 as amended: Not applicable

2.3 Other Hazards: None identified.

Section 3: Composition/information on ingredients

3.2 Mixtures

Regulation No. 1272/2008.

This material has no known hazards under applicable laws.

See Section 15 for Regulation (EC) No. 1907/2006 REACH Article 59(1). Candidate List (Substances of Very High Concern (SVHC))

Section 4: First aid measures

4.1 Description of First Aid Measures

Inhalation: Remove exposed person to fresh air if adverse effects are observed.

Eye contact: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If hot melted material should splash into the eyes, flush eyes immediately with water for 15 minutes while holding the eyelids open. Immediately call a poison center or doctor.

Skin Contact: Wash with soap and water. If skin irritation occurs, get medical attention. For contact with molten product, do not remove contaminated clothing. Flush skin immediately with large amounts of cold water. If possible, submerge area in cold water. Pack with ice. DO NOT attempt to peel polymer from skin. Seek medical attention immediately.

Ingestion: No specific first aid measures noted.

Personal Protection for First-aid Responders: When providing first aid always protect yourself against exposure to chemicals or blood born diseases by wearing gloves, masks and eye protection. After providing first aid wash your exposed skin with soap and water.

4.2 Most Important symptoms and effects, both acute and delayed: See section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: Note to physician: Treat symptomatically.

Section 5: Firefighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, dry chemical or foam for extinction. CO2 may be ineffective on large fires.

Unsuitable extinguishing media: Not determined.

5.2 Special hazards arising from the substance or mixture: See section 10 for additional information.

5.3 Advice for Fire-Fighters:

Special firefighting procedures: Thermoplastic polymers can burn. Protect product from flames; maintain proper clearance when using heat devices, etc. Irritating or toxic substances will be emitted upon burning, combustion or decomposition. Large masses of molten polymer held at elevated temperatures for extended periods of time may auto-ignite.

Special protective equipment for fire-fighters: Recommend wearing self-contained breathing apparatus.

Section 6: Accidental release measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: No data available.

6.2 Environmental Precautions:

Avoid release to the environment. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so.

6.3 Methods and Material for Containment and Cleaning Up: Pick up free solid for recycle and/or disposal.

6.4 Reference to Other Sections: See sections 8 and 13 for additional information.

Section 7: Handling and storage

7.1 Precautions for Safe Handling:

Avoid prolonged or repeated contact with skin.

Provide adequate ventilation. Observe good industrial hygiene practices. Wear appropriate personal protective equipment.

Contact with heated material may cause thermal burns. Wash thoroughly after handling.

Refer to Processing Guide and/or contact your local Technical Service representative for melt processing temperature range. For most thermoplastic polyurethanes, melt processing is in the range of 177 – 232 deg. C (350 – 450 deg. F), however, some products may process at different temperatures. Heating above the maximum handling temperature can generate hazardous decomposition products (see Section 10).

Fume condensates may include hazardous contaminants from additives. Condensate may be combustible and should be periodically removed from exhaust hoods, ductwork, and other surfaces. Impervious gloves should be worn during cleanup operations to prevent skin contact.

Post thermal processing activities necessary to produce molded article (such as cutting, sanding, sawing, grinding, drilling, or regrinding) may create dust or "fines." Powders, dust, and/or fines may pose a dust explosion hazard. Avoid breathing dust.

Loading and unloading operations may cause nuisance dust to form. Electrostatic buildup may occur when pouring or transferring this product from its container. The spark produced may be sufficient to ignite vapors of flammable liquids. Always transfer product by means which avoid static buildup. Avoid pouring product directly from its container into combustible or flammable solvent.

Conduct any operations emitting fumes or vapors (including thermo-forming, heat joining, cutting and or sealing of articles and clean up) under well-ventilated conditions. Avoid breathing process vapors. Do not hold product for extended periods of time at elevated temperatures or allow thick masses of hot polymer to accumulate because they can decompose emitting hazardous gasses. Do not taste, swallow, or chew products. Wash thoroughly after processing. Do not store or consume food in processing areas. The major off gasses from normal melt processing are expected to be water vapor and carbon dioxide. Other trace volatile organic components may also be emitted.

Do not steam sterilize articles made with thermoplastic polyurethanes.
Methylene dianiline can be generated as a result.

Maximum Handling Temperature: 232 °C

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Store away from incompatible materials. See section 10 for incompatible materials. Store in dry, well-ventilated place away from sources of heat and direct sunlight.

Maximum Storage Temperature: 19 °C

7.3 Specific end use(s): End uses are listed in an attached exposure scenario when one is required.

Section 8: Exposure controls/personal protection

8.1 Control Parameters:

Occupational Exposure Limits: None of the components have assigned exposure limits.

8.2 Exposure controls

Appropriate engineering controls: Provide adequate ventilation. Thermal processing operations should be ventilated to control gases and fumes given off during processing.

Individual protection measures, such as personal protective equipment

General information: Please follow the recommended personal protective equipment (PPE) guidelines below and refer to the appropriate EN standard where applicable. Use personal protective equipment as required.

Eye/face protection: If contact is likely, safety glasses with side shields are recommended. Eye protection should meet the standards set out in EN 166.

Skin protection

Hand Protection: Suitable gloves can be recommended by the glove supplier. To avoid burns from contact with molten product, use thermal insulating gloves.

General: Because specific work environments and material handling practices vary, safety procedures should be specific for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures). Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions. For typical use and handling of chemical substances, gloves should meet the standards set out in EN 374. For applications involving mechanical risks with potential for abrasion or puncture, the standards set out in EN 388 should be considered. For tasks involving thermal hazards, the standards set out in EN 407 should be considered.

Break-through time: Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that

actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type.

For continuous contact, we suggest gloves with a minimum breakthrough time of 240 minutes, or > 480 minutes if suitable gloves can be obtained. If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to. For short-term, transient exposures and splash protection, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

Glove thickness: For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It is important to note that glove thickness is not the only predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, before being disposed of. Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

Other: Long sleeve shirt is recommended.

Respiratory Protection: Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Cutting operations may create small particles from this product. If inhalation of particles cannot be avoided, wear a dust respirator. Respiratory Protective Equipment (RPE) is not normally required where there is adequate natural or local exhaust ventilation to control exposure. In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions. Please refer to the relevant EN standards for the RPE selected.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Environmental Controls: No data available. See section 6 for details.

Section 9: Physical and chemical properties

9.1 Information on basic Physical and chemical properties:

Appearance

Physical state: solid

Form: Pellets

Color: Natural

Odor: Faint

Odor Threshold: No data available.

pH: No data available.

Melting Point: No data available.

Boiling Point: No data available.

Flash Point: > 406 °C (Pensky–Martens Closed Cup)

Evaporation Rate: No data available.

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability Limit – Upper (%): No data available.

Flammability Limit – Lower (%): No data available.

Vapor pressure: No data available.

Vapor density (air=1): No data available.

Relative density: 1 – 1.1 (20 °C)

Solubility(ies)

Solubility in Water: Insoluble in water

Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Autoignition Temperature: No data available.

Decomposition Temperature: No data available.

Viscosity: No data available.

Explosive properties: No data available.

Oxidizing properties: No data available.

VOC Content: No data available.

Section 10: Stability and reactivity

10.1 Reactivity: No data available.

10.2 Chemical Stability: Material is stable under normal conditions.

10.3 Possibility of Hazardous Reactions: Will not occur.

10.4 Conditions to Avoid: None known.

10.5 Incompatible Materials: Strong acids. Oxidizing agents.

10.6 Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. May also include isocyanates and small amounts of hydrogen cyanide.

Section 11: Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: No data available.

Eye contact: No data available.

11.1 Information on toxicological effects:

Oral Product: Not classified for acute toxicity based on available data.

Dermal Product: Not classified for acute toxicity based on available data.

Inhalation Product: Overexposure to vapors or mist may cause dizziness, headache, nausea, and/or flu-like symptoms. Persons with sensitive airways (e.g., asthmatics) may react to vapors.

Not classified for acute toxicity based on available data.

Skin Corrosion/Irritation: Product: Pre-existing skin conditions may be aggravated by prolonged or repeated exposure. Contact with heated polymer may cause thermal burns and adhesion of solidified product to the skin.

Remarks: Not classified as a primary skin irritant.

Serious Eye Damage/Eye Irritation: Product: Remarks: Not classified as a primary eye irritant.

Respiratory sensitization: Product: Remarks: Under decomposition conditions, isocyanates may be generated from this product. Isocyanates can cause skin sensitization and/or respiratory sensitization.

Skin sensitization: No data available

Specific Target Organ Toxicity – Single Exposure: No data available

Aspiration Hazard: No data available

Chronic Effects

Carcinogenicity: No data available

Germ Cell Mutagenicity: No data available

Reproductive toxicity: No data available

Specific Target Organ Toxicity – Repeated Exposure: No data available

Section 12: Ecological information

12.1 Ecotoxicity

Fish: No data available

Aquatic Invertebrates: No data available

Toxicity to Aquatic Plants: No data available

Toxicity to soil dwelling organisms: No data available

Sediment Toxicity: No data available

Toxicity to Terrestrial Plants: No data available

Toxicity to Above-Ground Organisms: No data available

Toxicity to microorganisms: No data available

12.2 Persistence and Degradability:

Biodegradation: No data available

BOD/COD Ratio: No data available

12.3 Bioaccumulative Potential:

Bioconcentration Factor (BCF): No data available

Partition Coefficient n-octanol / water (log Kow): No data available

12.4 Mobility: No data available

12.5 Results of PBT and vPvB Assessment: No data available

12.6 Other Adverse Effects: No data available

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods: Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Contaminated Packaging: Container packaging may exhibit hazards.

Section 14: Transport information

ADR Not regulated.

IMDG Not regulated.

IATA Not regulated.

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: None known.

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. For transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

Section 15: Regulatory information

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture: EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: None present or none present in regulated quantities.

Regulation (EC) No. 850/2004 on persistent organic pollutants: None present or none present in regulated quantities.

Regulation (EC) No. 689/2008 Import and export of dangerous chemicals: None present or none present in regulated quantities.

Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List: None present or none present in regulated quantities.

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: None present or none present in regulated quantities.

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: None present or none present in regulated quantities.

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: None present or none present in regulated quantities.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: None present or none present in regulated quantities.

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances: None present or none present in regulated quantities.

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: None present or none present in regulated quantities.

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work: None present or none present in regulated quantities.

Inventory Status

Australia (AICS) All components are in compliance with chemical notification requirements in Australia.

Canada (DSL/NDL) All substances contained in this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL) or are exempt.

China (IECSC) All components of this product are listed on the Inventory of Existing Chemical Substances in China. European Union (REACH) To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

Japan (ENCS) All components are in compliance with the Chemical Substances Control Law of Japan.

Korea (ECL) All components are in compliance in Korea.

New Zealand (NZIoC) All components are in compliance with chemical notification requirements in New Zealand.

Philippines (PICCS) All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

Switzerland (SWISS) All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

Taiwan (TCSCA) All components of this product are listed on the Taiwan inventory.

United States (TSCA) All substances contained in this product are listed on the TSCA inventory or are exempt.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

15.2 Chemical Safety Assessment: No Chemical Safety Assessment has been carried out.

Section 16: Other information

Key literature references and sources for data: Internal company data and other publically available resources.

Wording of the H-statements in section 2 and 3: none

Other information: Revision(s) are noted by the double bar in the margin and the light gray box. Text that has been removed from the previous version can be found in the Revision Information summary table.

Abbreviations and acronyms:

ACGIH – American Conference of Governmental Industrial Hygienist

ADR – International Carriage of Dangerous Goods by Road

AICS – Australian Inventory of Chemical Substances

ATEmix – Acute Toxicity Estimate for the mixture

BCF – Bio concentration factor

DMSO – Dimethyl sulfoxide

DSL – Domestic Substance List

EC50 – Effective concentration that gives a response in 50% of the population

ECHA – European Chemical Agency

ECL – Existing Chemical List

ENCS – Existing and New Chemical Substances

EPA – Environmental Protection Agency

IARC – International Agency for Research on Cancer

IATA – International Air Transport Association

IECSC – Inventory of Existing Chemical Substances

IMDG – International Maritime Dangerous Goods

IP 346 – A gravimetric assay used to determine the percentage weight of polycyclic aromatics in oil, via a DMSO extraction technique

LC50 – Lethal concentration required to kill 50% of the population

MARPOL – International Conventions for the Prevention of Pollution from Ships

NDSL – Non Domestic Substance List

NOAEC – No observed adverse effect concentration
 NOAEL – No observed adverse effect level
 NOEC – No observed effective concentration
 NTP – National Toxicology Program
 NZloc – New Zealand Inventory of chemicals
 OECD TG – Organization for Economic Cooperation and Development Test Guidelines
 OSHA – Occupational, Safety, and Health Administration
 PBT – Persistent bioaccumulative toxic chemical
 PEL – Permissible Exposure Level
 PICCS – Philippine Inventory of Chemicals and Chemical Substances
 PPE – Personal Protective Equipment
 PRTR – Pollutant Release and Transfer Register
 REACH – Registration, Evaluation, Authorization & restriction of Chemicals
 SVHC – Substance of Very High Concern
 SWISS – Switzerland chemical ordinance
 TCSCA – Toxic Chemical Substance Control Act
 TLV – Threshold Limit Value
 TSCA – Toxic Substances Control Act
 TWA – Time Weighted Average
 vPvB – very Persistent very Bioaccumulative

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Revision Information:			
SECTION 2: Hazards identification	Deleted	Phrase text	not applicable
SECTION 7: Handling and storage	Deleted	Advice	Refer to Processing Guide and/or contact your local Technical Service representative for melt processing temperatu
SECTION 7: Handling and storage	Deleted	Advice	most thermoplastic polyurethanes, melt processing is in the range of 177 - 232 deg. C (350 - 450 deg. F), however,

SECTION 7: Handling and storage	Deleted	Advice	products may process at different temperatures. Heating above the maximum handling temperature can generate hazard
SECTION 7: Handling and storage	Deleted	Advice	decomposition products (see Section 10). Review the temperature data in the "Maximum Handling Temperature" include
SECTION 14: Transport information	Deleted	Phrase text	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code