

1. Identification

Product identifier **UNREINFORCED NYLON 66 RESIN**

Other means of identification

SDS number 991

Synonyms HV80A NC01, HV125A NC01, HV125AHSL NC01, HV240A NC01, HV240AHSL NC01, HV360A NC01, HV360AHSL NC01, U2501 NC01, U3501 NC01, U3600 NC01, U3602 NC01, U4501 NC01, U4630HSL BKB01, U4630HSL NC01, U4664FL BKB01, U4664FL NC01, U4800 NC01, U4801 NC01, U4803 NC01, U4820L BKB01, U4820L NC01, U4840NL NC01, U5000 NC01, U5101 NC01

Recommended use of the chemical and restrictions on use

Recommended use Polymers

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

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2. Hazards identification

GHS classification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

GHS label elements, including precautionary statements

Pictograms None.

Signal word None.

Hazard statements None.

Other hazards which do not result in classification DUST MAY FORM EXPLOSIVE MIXTURE IN AIR.

Supplemental information None.

3. Composition/information on ingredients

Substance or mixture Mixture

Chemical name	Common name and synonyms	CAS Number	Concentration (%)
Nylon 66 Polymer Pellets		32131-17-2	>97%

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If the affected person is not breathing, apply artificial respiration. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not use mouth-to-mouth method if victim inhaled the substance. Get medical attention, if needed.

Skin contact Immediately flush skin with plenty of water. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse. Get medical attention if irritation develops or persists. In case of contact with molten product, cool rapidly with water and seek immediate medical attention. Do not attempt to remove solidified polymer from skin. The molten product can cause serious burns.

Eye contact Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

Ingestion	<p>If swallowed, do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions. If the affected person is not breathing, apply artificial respiration. Do not use mouth-to-mouth method if victim ingested the substance. Obtain medical attention, as needed.</p> <p>Contact with molten material may cause thermal burns.</p>
Most important symptoms/effects, acute and delayed	<p>Eyes: Particles and dusts may be mechanically irritating when in contact with eyes. Symptoms include itching, burning, redness and tearing.</p> <p>Skin: Particles/dust may cause mechanical irritation when in contact with the skin and can cause skin irritation with redness. Symptoms may include redness, drying of skin, itching and pain.</p> <p>Ingestion: Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.</p> <p>Inhalation: Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.</p> <p>Provide general supportive measures and treat symptomatically.</p>
Indication of immediate medical attention and special treatment needed	
General information	<p>Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the medical provider in attendance.</p>
5. Fire-fighting measures	
Suitable extinguishing media	Dry chemical, CO ₂ , water spray or regular foam. Apply extinguishing media carefully to avoid creating airborne dust.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	<p>Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.</p> <p>During fire, gases hazardous to health may be formed. Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons. Traces of hydrogen cyanide may be found in fire conditions.</p>
Fire fighting equipment/instructions	In the event of fire, cool tanks with water spray. In the event of fire and/or explosion do not breathe fumes. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.
Special protective equipment and precautions for firefighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Structural firefighters protective clothing will only provide limited protection.
Specific methods	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. ALWAYS stay away from tanks engulfed in flame.
General fire hazards	Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. Irritating and toxic gases or fumes may be released during a fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	<p>Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Avoid inhalation of fumes from molten product. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the SDS. Remove all sources of ignition. Molten material can cause burns. Handle molten material with care.</p>
Environmental precautions	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Avoid release to the environment.
Methods and materials for containment and cleaning up	<p>Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Use only non-sparking tools.</p> <p>Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.</p> <p>Large Spills: Vacuum or sweep up material and place in a disposal container.</p> <p>Small Spills: Sweep up or gather material and place in appropriate container. Clean contaminated surface thoroughly.</p> <p>Never return spills in original containers for re-use.</p>

7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Industrial handling of polymer pellets or chips has the potential to generate dust. Polymer dust can accumulate over time on buildings and equipment. After a significant amount of dust accumulation and disturbance, dust may form explosive mixture in air. Ensure that good housekeeping practices are followed. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Combustible dust clouds may be created where operations produce fine material (dust).

Wash hands after handling and before eating. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Use care in handling/storage.

Take measures to prevent the build up of electrostatic charge. Molten material can cause burns. Handle molten material with care. When handling hot material, use heat resistant gloves.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, and flame. Keep this material away from food, drink and animal feed. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep tightly closed in a dry, cool and well-ventilated place. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Control parameters/Occupational exposure limits

No exposure limits noted for ingredient(s).

Appropriate engineering control measures

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Use only appropriately classified electrical equipment and powered industrial trucks. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels. Keep formation of airborne dusts to a minimum. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.

Individual protection measures, such as personal protective equipment

Eye/face protection

Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Avoid contact with skin. Request information on glove permeation properties from the glove supplier. For molten material use heat resistant gloves.

Other

Wear suitable protective clothing.

Respiratory protection

When dusts or thermal processing fumes are generated and ventilation is not sufficient to effectively remove them, appropriate respiratory protection must be provided. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

Thermal hazards

For molten product, use any type rubber thermal insulating gloves and other clothing as necessary to protect from thermal burns. If handling molten material, additional protection may be needed, which may include face shield. Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Avoid contact with the skin and the eyes. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice. Keep away from food and drink.

9. Physical and chemical properties

Appearance

Granular. Flakes Chips. Pellets.

Physical state

Solid.

Form

Solid.

Color

Based on specification.

Odor

Slight to none.

Odor threshold	Not available.
pH	Not Applicable
Melting point/freezing point	455 - 509 °F (235 - 265 °C)
Initial boiling point and boiling range	Not Determined
Flash point	788 °F (420 °C) ASTM D1929
Evaporation rate	Not Applicable
Flammability (solid, gas)	Not available.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density (liquid)	Not available.
Solubility(ies)	
Solubility (water)	0 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	851 °F (455 °C) ASTM D1929
Decomposition temperature	50% at 420°C; 96% at 900°C
Viscosity	Not available.
Other data	
Chemical family	Polyamide
Specific gravity	>1

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Minimize dust generation and accumulation. Avoid heat, sparks, open flames and other ignition sources.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Hydrogen cyanide (hydrocyanic acid). Nitrogen oxides (NOx). Carbon oxides. Ammonia gas may be liberated at high temperatures.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.
Skin contact	Particles/dust may cause mechanical irritation when in contact with the skin and can cause skin irritation with redness. Symptoms may include redness, drying of skin, itching and pain.
Eye contact	Particles and dusts may be mechanically irritating when in contact with eyes. Symptoms include itching, burning, redness and tearing.
Ingestion	Ingestion of this product may cause nausea, vomiting and diarrhea.
Acute toxicity	Information given is based on data on the components and the toxicology of similar products. Due to this material's high molecular weight, this material is considered to be of little to no toxicological concern.
Symptoms	See information on likely routes of exposure.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	
Respiratory sensitization	Based on available data, the classification criteria are not met.
Skin sensitization	Based on available data, the classification criteria are not met.

Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Chronic effects	Occupational interstitial lung disease (ILD) has been observed at very high dust levels.
Relevant negative data	None known.

12. Ecological information

Ecotoxicity	Information given is based on data on the components and the ecotoxicology of a closely related chemical analog to this product. This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No data available.

13. Disposal considerations

Disposal methods/information	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Dispose of contents/container (in accordance with related regulations).
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14. Transport information

ADR	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available.

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Controlled Narcotic Drugs (Misuse of Drugs Act, First Schedule, Part I, II & III)

Not regulated.

Controlled Specified Drugs (Misuse of Drugs Act, Fourth Schedule)

Not regulated.

Prior Informed Consent (PIC) Substances (Environment Protection and Management Act, 2nd Schedule, Part 1, Jul. 1, 2013)

Not regulated.

Chemical Weapons Prohibition (Act)

Not applicable.

Environmental Protection and Management (Hazardous Substances) Regulations

Not applicable.

Environmental Public Health Act

Not applicable.

International regulations

Montreal Protocol

Not applicable.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information**References**

Internal assessments, testing and research.
Thompson Micromedex, Database, 2006. Hazardous Substance Data Bank, Database, 2006.

Issued by

Not available.

Prepared by

Not available.

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Issue date

August-21-2018

Revision date

August-22-2018

Key/legend

Not applicable.

Revision information

Product and Company Identification: Product and Company Identification