



1730 NE Miller Street
McMinnville, OR 97128
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SECTION I – Product and Company Information

Emergency Information

Transportation:

CHEMTREC: 800-424-9300 (24 hrs / 7 days a week)

Medical:

Rocky Mountain Poison Center 866-767-5089 (24 hrs / 7 days a week)

Product Information

Product Name	N1012
Synonyms	Not available
Molecular formula	Proprietary
Chemical family	Polyamide, copolymer
Product use	Mouldings and Extrusion

SECTION II – Hazards Identification

Emergency Overview

Color	Translucent
Physical state	Solid
Form	Pellets
Odor	None

CAUTION: Processing may release vapors and / or fumes which cause eye, skin and respiratory tract irritation.

Potential Health Effects

Primary routes of exposure Inhalation and skin contact.

Signs and symptoms of acute exposure The product, in the form supplied, is not anticipated to produce significant adverse human health effects. Effects due to processing releases: irritating to eyes, respiratory system and skin. Prolonged or repeated exposure may cause: headache, drowsiness, nausea, weakness. (severity of effects depends on extent of exposure).

Remarks Handle in accordance with good industrial hygiene and safety practice (pellets / granules). This product may release fume and / or vapor of variable composition depending on processing time and temperature.

SECTION III –Composition / Information on Ingredients

Chemical Name	CAS-No.	Wt/Wt	OSHA Hazardous
Polyamide copolymer	Proprietary*	60 – 100 %	N
Benzenesulfonamide, N-butyl-	3622-84-2	10 – 30%	Y

The substance(s) marked with a "Y" in the Hazard column above, are those identified as hazardous chemicals under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

* The specific chemical identity is withheld because it is trade secret information of the manufacturer.

This material is classified as hazardous under Federal OSHA regulation.

SECTION IV – First Aid Measures

Inhalation	If inhaled, remove to fresh air.
Skin	In case of contact, immediately flush skin with plenty of water. If molten polymer gets on the skin, cool rapidly with cold water. Do not peel solidified product off the skin. Obtain medical treatment for thermal burns. Remove material from clothing. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eyes	Immediately flush eye(s) with plenty of water. Obtain medical treatment for thermal burns.
Ingestion	If swallowed, DO NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.

SECTION V – Firefighting Measures

Flash point	Not applicable
Auto-ignition temperature	Approximately 779 °F (415 °C)
Lower flammable limit (LFL)	No data available
Upper flammable limit (UFL)	No data available
Extinguishing media (suitable)	Water spray, Carbon dioxide (CO ₂), Foam
Protective equipment	Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand / NIOSH approved or equivalent).
Further firefighting advice	Fire fighting equipment should be thoroughly decontaminated after use.
Fire and explosion hazards	When burned, the following hazardous products of combustion can occur: Carbon oxides Sulphur compounds Hydrogen cyanide (hydrocyanic acid) (traces)

SECTION VI – Accidental Release Measures

In case of spill or leak	Prevent further leakage or spillage if you can do so without risk. Ventilate the area. Sweep up and shovel into suitable properly labeled containers for prompt disposal. Possible fall hazard – floor may become slippery from leakage / spillage of product. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and / or hazardous waste disposal and other
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requirements listed in pertinent environmental permits.

SECTION VII – Handling and Storage

Handling

General information on handling Avoid breathing processing fumes or vapors.
Avoid breathing dust.
Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing.

Storage

General information on storage conditions Keep in a dry, cool place. Store away from moisture and heat to maintain the technical properties of the product. Store in closed containers, in a secure area to prevent container damage and subsequent spillage.

Storage stability – Remarks Stable under recommended storage conditions.
Materials recommended for packaging include:
Paper bags lined with polyethylene
Cardboard lined with polyethylene liner
Triplex bags (polyethylene – aluminum – polyethylene)

Storage incompatibility – General Store separate from:
Strong acids
Oxidizing agents

Temperature tolerance – Do not store above 140 °F (60 °C)

SECTION VIII – Exposure Controls / Personal Protection

Airborne Exposure Guidelines

Particles Not Otherwise Specified / Nuisance Dust

US. ACGIH Threshold Limit

Values

Form Inhalable particles

Time Weighted Average (TWA) 10 mg/m³

Form Respirable particles

Time Weighted Average (TWA) 3 mg/m³

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Form Respirable fraction

PEL 5 mg/m³

Remarks All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is the same as the inert or nuisance dust limit of Table Z-3.

Form Total dust

PEL 15 mg/m³

Remarks All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is the same as the inert or nuisance dust limit of Table

Z-3.

Only those components with exposure limits are printed in this section. Limits with skin contact designation above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required. Limits with a sensitizer designation above mean that exposure to this material may cause allergic reactions.

Engineering controls

Investigate engineering techniques to reduce exposures below airborne exposure limits or to otherwise reduce exposures. Provide ventilation if necessary to minimize exposures or to control exposure levels to below airborne exposure limits (if applicable see above). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Respiratory protection

Avoid breathing processing fumes or vapors. Avoid breathing dust. Where airborne exposure is likely or airborne exposure limits are exceeded (if applicable, see above), use NIOSH approved respiratory protection equipment appropriate to the material and / or its components and substances released during processing. Consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure or where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Skin protection

Processing of this product releases vapors or fumes which may cause skin irritation. Minimize skin contamination by following good industrial hygiene practice. Wash hands and contaminated skin thoroughly after contact with processing fumes or vapors. Wash thoroughly after handling.

Eye protection

Use good industrial practice to avoid eye contact. Processing of this product releases vapors or fumes which may cause eye irritation. Where eye contact may be likely, wear chemical goggles and have eye flushing equipment available.

SECTION IX – Physical and Chemical Properties

Color	Translucent
Physical state	Solid
Form	Pellets
Odor	None
pH	Not applicable
Density	1.03 g/cm ³
Bulk density	570 – 670 kg/m ³
Vapor pressure	Not applicable
Vapor density	Not applicable
Melting point /range	374 °F (190 °C)
Solubility in water	Insoluble
Thermal decomposition	>662 °F (>350 °C)

SECTION X – Stability and Reactivity

Stability	The product is stable under normal handling and storage conditions.
Hazardous reactions	Hazardous polymerisation does not occur.
Materials to avoid	Strong acids and oxidizing agents
Conditions / hazards to avoid	Avoid storing in moist and warm conditions. (to maintain the technical properties of the product) See Hazardous Decomposition Products below.
Hazardous decomposition products	Temperature exceeding 350 °C Thermal decomposition giving toxic and corrosive products: Carbon monoxide Sulphur dioxide Ammonia Amino derivatives Temperature exceeding 500 °C Thermal decomposition giving flammable and toxic products Carbon oxides Sulphur compounds Hydrogen cyanide (hydrocyanic acid) (traces)

SECTION XI – Toxicological Information

Data on this material and / or its components are summarized below.

Data for Benzenesulfonamide, N-Butyl - (3622-84-2)

Acute toxicity	Oral Slightly toxic. (rat) LD50 = 2,070 mg/kg. Dermal No more than slightly toxic. (rabbit) LD50 > 2,000 mg/kg. Inhalation No deaths occurred. (rat) 4h LC0 > 4.1 mg/l Skin irritation Non-irritating. (rabbit) Irritation Index: 0 / 8. (4 h) Non-irritating. (guinea pig) Eye Irritation Non-irritating. (rabbit) Irritation Index: 0 / 110. Skin Sensitization Not a skin sensitizer. LLNA: Local Lymph Node Assay. (mouse) No effect is reported.
Repeated dose toxicity	Repeated oral administration to rat / affected organ(s): liver, nervous system, thymus / signs: changes in organ structure or function / (Repeated exposure at high concentrations) Repeated oral administration to rat / affected organ(s): kidney / signs: hyaline droplet nephropathy / (not considered relevant in humans)
Genotoxicity	Assessment in Vitro: No genetic changes were observed in laboratory tests using: bacteria, human cells, animal cells

Reproductive effects

Reproductive / Developmental Effects Screening Assay. Oral (rat) / Effects on fertility and offspring / (toxic effects also observed in the parental animals at these does, males, affected organ(s), testes, females, levels produced toxic effects in the mothers and offspring)

SECTION XII – Ecological Information

Chemical Fate and Pathway

Data on this material and / or its components are summarized below.

Data for Benzenesulfonamide, N-Butyl - (3622-84-2)

Biodegradation

Not readily biodegradable. (28 d) biodegradation is 18 %

Octanol Water Partition Coefficient

Log Pow = 2.01 (measured)

Ecotoxicology

Data on this material and / or its components are summarized below.

Data for Benzenesulfonamide, N-Butyl - (3622-84-2)

Aquatic toxicity data

No adverse effects reported. Lepomis macrochirus (Bluegill sunfish) 24 h NOEC = 5 mg/l (static)
Moderately toxic. Sea lamprey larvae 14 h LC = 5 mg/l

Slightly toxic. Danio rerio (zebra fish) 96 h LC50 = 36.7 mg/l

Aquatic invertebrates

Slightly toxic. Daphnia magna (Water flea) 48 h EC50 = 56 mg/l

Algae

Slightly toxic. Selenastrum capricornutum (green algae) 72 h EC50 = 83 mg/l

Microorganisms

Practically nontoxic. Activated sludge 3 h EC50 > 6,000 mg/l

SECTION XIII – Disposal Considerations

Waste disposal

Where possible recycling is preferred to disposal or incineration. If recycling is not an option, incinerate or dispose of in accordance with federal, state, and local regulations. Pigmented, filled and/or solvent laden product may require special disposal practices in accordance with federal, state and local regulations. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and / or hazardous waste disposal and other requirements listed in pertinent environmental permits. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

SECTION XIV – Transport Information

US Department of Transportation (DOT)	Not regulated
International Maritime Dangerous Good Code (IMDG)	Not regulated

SECTION XV – Regulatory Information

Chemical Inventory Status

EU. EINECS	EINECS	Conforms to This product complies with TSCA Inventory requirements. The polymer component(s) is (are) eligible for the amended polymer exemption at 40 CFR Section 723.250.
US Toxic Substances Control Act	TSCA	
Australia, Industrial Chemical (Notification and Assessment) Act	AICS	Does not conform
Canada, Canadian Environmental Protection Act (CEPA), Domestic Substances List (DSL). (Can. Gaz. Part II, Vol 144)	DSL	This product contains one or several components that are not on the Canadian DSL nor NDSL lists.
Japan, Kashin-Hou Law List	ENCS (JP)	Does not conform
Korea, Existing Chemicals Inventory (KECI)	KECI (KR)	Conforms to
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	Does not conform
China, Inventory of Existing Chemical Substances	IECSC (CN)	Conforms to
New Zealand, Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	NZIOC	Does not conform
SARA Title III - Section 302 Extremely Hazardous Chemicals		The components in this product are either not SARA Section 302 regulated or regulated but present in negligible concentrations. No SARA Hazards
SARA Title III – Section 311/312 Hazard Categories		
SARA Title III – Section 313 Toxic Chemicals		SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) – Reportable Quantity (RQ)		The components in this product are either not CERCLA regulated, regulated but present in negligible concentrations, or regulated with no assigned reportable quantity.
OSHA Regulated Carcinogens (NTP, IARC, OSHA Listed)		
NTP		No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
IARC		No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**United States – State Regulations
New Jersey Right to Know**

No components are subject to the New Jersey Right to Know Act.

Pennsylvania Right to Know

Chemical Name
Benzenesulfonamide, N-Butyl-
CAS-No. 3622-84-2

California Prop. 65

Polyamide copolymer
CAS No. proprietary
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive effects.

Section XVI - Other Information

Latest Revision
5/2012

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