

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

Name of the substance Cashew, Nutshell Liq., Polymd. Reaction Products With Hexamethylenetetramine

Trade name of the substance CARDOLITE **NX-2004-20**

Identification Number 68647-81-4

Registration number -

Synonyms None.

Date of first issue 11-November-2010

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Revision date -

Supersedes date -

Relevant identified uses of the substance or mixture and uses advised against

Identified uses Resin.

Uses advised against Not available.

Details of the supplier of the safety data sheet

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Section 2: Hazards identification**Classification of the substance or mixture**

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification R43

Classification according to Regulation (EC) No 1272/2008 as amended**Health hazards**

Skin sensitization

Category 1

May cause an allergic skin reaction.

Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards May cause sensitisation by skin contact.

Environmental hazards Not classified for hazards to the environment.

Specific hazards Dusts or powder may irritate the respiratory tract, skin and eyes. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Main symptoms Sensitisation. Upper respiratory tract irritation. Coughing. Irritation of eyes and mucous membranes. Skin irritation.

Label elements**Label according to Regulation (EC) No. 1272/2008 as amended**

Contains: Cashew, Nutshell Liq., Polymd. Reaction Products With Hexamethylenetetramine

Identification Number 68647-81-4

Authorisation number -



Signal word	Warning
Hazard statements	May cause an allergic skin reaction.
Precautionary statements	
Prevention	Avoid breathing dust/fume. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.
Response	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Storage	Store as indicated in Section 7.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental label information	Not applicable.
Other hazards	Not assigned.

Section 3: Composition/information on ingredients

Substance

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
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Cashew, Nutshell Liq., Polymd. Reaction Products With Hexamethylenetetramine	100	68647-81-4 -	-	68647-81-4	
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Classification: **DSD:** R43
 CLP: Skin Sens. 1;H317

DSD: Directive 67/548/EEC.
CLP: Regulation No. 1272/2008.

Composition comments The full text for all R- and H-phrases is displayed in section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Section 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Description of first aid measures

Inhalation Move to fresh air. Get medical attention if any discomfort continues.

Skin contact Flush skin thoroughly with water. Get medical attention if irritation develops or persists.

Eye contact Dust in the eyes: Do not rub eyes. Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth thoroughly. Do not induce vomiting without advice from poison control centre. Never give anything by mouth to an unconscious person. If ingestion of a large amount does occur, call a poison control centre immediately. Get medical attention if any discomfort occurs.

Most important symptoms and effects, both acute and delayed Sensitisation. Coughing. Upper respiratory tract irritation. Irritation of eyes and mucous membranes. Skin irritation.

Indication of any immediate medical attention and special treatment needed Treat symptomatically.

Section 5: Firefighting measures

General fire hazards Dust may form explosive mixture with air.

Extinguishing media

Suitable extinguishing media Foam. Carbon dioxide (CO₂). Dry powder. Water fog.

Unsuitable extinguishing media None known.

Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed. High concentrations of dust may form explosive mixture with air.

Advice for firefighters

Special protective equipment for firefighters	Not available.
Special firefighting procedures	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Ensure adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing. See Section 8 for personal protective equipment.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

Methods and material for containment and cleaning up ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Collect dust using a vacuum cleaner equipped with HEPA filter. If not possible, gently moisten dust before it is collected with shovel, broom or the like. Avoid dust formation. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect spillage. Collect dust using a vacuum cleaner equipped with HEPA filter. If not possible, moisten dust with water before it is collected with shovel, broom or the like. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid dust formation.

Reference to other sections For waste disposal, see section 13. See Section 8 for personal protective equipment.

Section 7: Handling and storage

Precautions for safe handling Provide adequate ventilation. Keep away from heat, sparks and open flame. Avoid inhalation of dust and contact with skin and eyes. Avoid breathing fumes if this product is used at high temperatures. Use only with adequate ventilation. Dust clouds may be explosive under certain conditions. Take precautionary measures against static discharges when there is a risk of dust explosion. Use explosion-proof electrical equipment if airborne dust levels are high. To prevent and minimise fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system. Wear appropriate personal protective equipment. Change contaminated clothing. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Keep container tightly closed and in a well-ventilated place. Keep away from heat, sparks and open flame.

Specific end use(s) Resin.

Section 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits	No exposure limits noted for the ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Follow standard monitoring procedures.
DNEL	Not available.
PNEC	Not available.

Exposure controls

Appropriate engineering controls Ventilate as needed to control airborne dust. Use explosion-proof ventilation equipment if airborne dust levels are high.

Individual protection measures, such as personal protective equipment

General information	Use personal protective equipment as required. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Wear dust-resistant safety goggles where there is danger of eye contact.
Skin protection	
- Hand protection	Wear suitable gloves. Rubber gloves are recommended.
- Other	Wear appropriate chemical resistant clothing to prevent any possibility of skin contact.
Respiratory protection	In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Do not breathe dust. 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.

Environmental exposure controls

Inform appropriate managerial or supervisory personnel of all environmental releases.

Section 9: Physical and chemical properties**Information on basic physical and chemical properties**

Appearance	Granular, free flowing, brown or black resin, slightly sweet odor.
Physical state	Solid.
Form	Granular.
Colour	Brown or black.
Odour	Slight, sweet.
Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not available.
Flash point	Not applicable.
Auto-ignition temperature	Not applicable.
Flammability (solid, gas)	Not available.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Oxidising properties	Not applicable.
Explosive properties	Not applicable.
Explosive limit	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Relative density	1 (Water = 1)
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Percent volatile	Not available.
Other data	
Molecular formula	C6H12N4.Unspecified
Other information	No relevant additional information available.

Section 10: Stability and reactivity

Reactivity	Not available.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Heat, sparks, flames. Static discharge and dust generation.
Incompatible materials	None known.
Hazardous decomposition products	Carbon oxides.

Section 11: Toxicological information**General information** Not available.**Information on likely routes of exposure**

Ingestion	May cause discomfort if swallowed.
Inhalation	Dust may irritate respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
Skin contact	Causes mild skin irritation.

Eye contact	Causes serious eye irritation.
Symptoms	Sensitisation. Upper respiratory tract irritation. Coughing. Irritation of eyes and mucous membranes. Skin irritation.
Information on toxicological effects	
Acute toxicity	May cause discomfort if swallowed.
Skin corrosion/irritation	Causes mild skin irritation.
Serious eye damage/eye irritation	Causes eye irritation. Dust may irritate the eyes. Exposed may experience eye tearing, redness, and discomfort.
Respiratory sensitization	Not classified.
Skin sensitization	May cause sensitization by skin contact. Can cause sensitization to individuals allergic to the Rhus-family of plants (Anacardiaceae).
Germ cell mutagenicity	No data available.
Carcinogenicity	Not classified.
Reproductive toxicity	No data available.
Specific target organ toxicity - single exposure	No data available.
Specific target organ toxicity - repeated exposure	No data available.
Aspiration hazard	Not available.
Mixture versus substance information	Not available.
Other information	No other specific acute or chronic health impact noted.

Section 12: Ecological information

Toxicity	No toxicity data noted for the ingredient(s).
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility	The product is insoluble in water.
Environmental fate - Partition coefficient	Not available.
Mobility in soil	Not available.
Results of PBT and vPvB assessment	Not available.
Other adverse effects	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Section 13: Disposal considerations

Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations. Waste is suitable for incineration.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.
EU waste code	08 04 09*
Disposal methods/information	This material and/or its container must be disposed of as hazardous waste. Avoid discharge into water courses or onto the ground. Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Section 14: Transport information

ADR

The product is not covered by international regulation on the transport of dangerous goods.

RID

The product is not covered by international regulation on the transport of dangerous goods.

ADN

The product is not covered by international regulation on the transport of dangerous goods.

IATA

The product is not covered by international regulation on the transport of dangerous goods.

IMDG

The product is not covered by international regulation on the transport of dangerous goods.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code No information available.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Not listed.

Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registry (EPER)

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List

Not listed.

Other regulations

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work.
This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations

Not available.

Chemical safety assessment

Not available.

Section 16: Other information

List of abbreviations

DNEL: Derived No-Effect Level.
PNEC: Predicted No-Effect Concentration.
PBT: Persistent, bioaccumulative and toxic.
vPvB: Very Persistent and very Bioaccumulative.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.

Full text of any statements or R-phrases and H-phrases under Sections 2 to 15

R43 May cause sensitisation by skin contact.

H317 - May cause an allergic skin reaction.

Training information

Not available.

Disclaimer

To the best of our knowledge, the information contained herein is accurate. However no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability to assure proper use, disposal, and safety of these materials.

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