

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

Trade name or designation of the mixture CARDOLITE NC-342X

Registration number -

Synonyms None.

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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 R10, R43

Hazard summary

Physical hazards Flammable.

Health hazards May cause sensitisation by skin contact. Occupational exposure to the substance or mixture may cause adverse health effects.

Environmental hazards Not classified for hazards to the environment.

Specific hazards May cause allergic skin disorders in sensitive individuals.

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

Label elements**Label according to Directive 67/548/EEC or 1999/45/EC as amended**

Irritant

R-phrases R10 Flammable.
R43 May cause sensitisation by skin contact.

S-phrases S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe vapour.
S24/25 Avoid contact with skin and eyes.
S36/37 Wear suitable protective clothing and gloves.
S60 This material and its container must be disposed of as hazardous waste.

Supplemental label information Not applicable.

Other hazards None known.

Section 3: Composition/information on ingredients

Mixture

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Rubber modified cashew liquid resin	80	Confidential	-	-	
Classification:	R43				
Naphtha	10 - 20	8030-30-6 232-443-2	-	649-262-00-3	
Classification:	R10, Xn;R65, Xi;R38, R67, N;R51/53				
1-Butanol	1 - 3	71-36-3 200-751-6	01-2119484630-38-0022	603-004-00-6	#
Classification:	R10, Xn;R22, Xi;R37/38-41, R67				
n-Butyl acetate	2	123-86-4 204-658-1	-	607-025-00-1	#
Classification:	R10, R66-67				
Ethyl benzene	1	100-41-4 202-849-4	-	601-023-00-4	#
Classification:	F;R11, Xn;R20				

#: This substance has workplace exposure limit(s).

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 Burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

Description of first aid measures

Inhalation Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort occurs.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of allergic reaction or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Ingestion Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Never give liquid to an unconscious person. Only induce vomiting at the instruction of medical personnel. Get medical attention if any discomfort occurs.

Most important symptoms and effects, both acute and delayed Sensitisation. Severe eye irritation. Skin irritation. May irritate and cause malaise.

Indication of any immediate medical attention and special treatment needed Treat symptomatically. Symptoms may be delayed.

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 Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

Advice for firefighters

Special protective equipment for firefighters 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.

Special firefighting procedures

Move containers from fire area if you can do so without risk. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

Section 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Stay upwind. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Avoid inhalation of vapours and spray mist 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 with absorbent, non-combustible material into suitable containers.

Reference to other sections

See Section 8 for personal protective equipment. For waste disposal, see section 13.

Section 7: Handling and storage**Precautions for safe handling**

Provide adequate ventilation. Wear protective gloves and appropriate clothing to prevent skin contact. Handle and open container with care. Change contaminated clothing. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. Avoid inhalation of vapours/spray and contact with skin and eyes. Do not smoke, use open fire or other sources of ignition. Ground container and transfer equipment to eliminate static electric sparks. Protect electric equipment against sparking in case of risk of explosion.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a well-ventilated place. Store in a cool, dry place. Store away from incompatible materials.

Specific end use(s)

Resin.

Section 8: Exposure controls/personal protection**Control parameters****Occupational exposure limits****UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value
1-Butanol (71-36-3)	STEL	154 mg/m ³ 50 ppm
Ethyl benzene (100-41-4)	STEL	552 mg/m ³ 125 ppm
	TWA	100 ppm 441 mg/m ³
n-Butyl acetate (123-86-4)	STEL	966 mg/m ³ 200 ppm
	TWA	150 ppm 724 mg/m ³

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**

Use explosion-proof ventilation equipment to stay below exposure limits. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

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 approved safety glasses or goggles.

Skin protection**- Hand protection**

Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

- Other

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection

In case of inadequate ventilation: Use respiratory equipment with gas filter, type A2.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

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 and protective equipment to remove contaminants.

Environmental exposure controls Environmental manager must be informed of all major releases.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Dark brown colored liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Dark brown.
Odour	Aromatic.
Odour threshold	Not available.
pH	3.5 Approximate
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	> 65.6 °C (> 150 °F)
Flash point	36.1 °C (97 °F) Pensky-Martens Closed Cup
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	0.9 (H ₂ O=1)
Solubility (water)	Slightly soluble.
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Percent volatile	20 % (2gm/2h/105°C)
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	Not available.
Incompatible materials	Not available.
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	May cause respiratory tract irritation.
Skin contact	Causes skin irritation. May cause redness and pain.

Eye contact Causes serious eye irritation. Eye may become red, tear, and become painful.
Symptoms Sensitisation. Causes skin and eye irritation May cause redness and pain.

Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

Components

Test results

Ethyl benzene (100-41-4)	Acute Dermal LD50 Rabbit: > 5000 mg/kg Acute Oral LD50 Rat: 5.46 g/kg
n-Butyl acetate (123-86-4)	Acute Inhalation LC50 Rat: 2000 ppm 4 Hours Acute Oral LD50 Rat: 10768 mg/kg
1-Butanol (71-36-3)	Acute Dermal LD50 Rabbit: 3400 mg/kg Acute Inhalation LC50 Rat: 8000 mg/l 4 Hours Acute Oral LD50 Rat: 790 mg/kg
Naphtha (8030-30-6)	Acute Inhalation LC50 Rat: 61 mg/l 4 Hours

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Cause severe eye irritation.

Respiratory sensitization No data available.

Skin sensitization May cause sensitization by skin contact.

Germ cell mutagenicity No data available.

Carcinogenicity No carcinogenicity data available for this product.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethyl benzene (CAS 100-41-4) 2B Possibly carcinogenic to humans.

Reproductive toxicity No data available.

Specific target organ toxicity - single exposure May cause drowsiness or dizziness. May cause respiratory irritation.

Specific target organ toxicity - repeated exposure No data available.

Aspiration hazard No data available.

Mixture versus substance information Not available.

Other information Not available.

Section 12: Ecological information

Toxicity

Components

Test results

Ethyl benzene (100-41-4)	EC50 Water flea (Daphnia magna): 1.37 - 4.4 mg/l 48 hours LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 4.2 mg/l 96 hours
n-Butyl acetate (123-86-4)	LC50 Fathead minnow (Pimephales promelas): 17 - 19 mg/l 96 hours
1-Butanol (71-36-3)	EC50 Water flea (Daphnia magna): 1897 - 2072 mg/l 48 hours LC50 Bluegill (Lepomis macrochirus): 100 - 500 mg/l 96 hours
Naphtha (8030-30-6)	EC50 Water flea (Daphnia pulex): 2.7 - 5.1 mg/l 48 hours LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 8.8 mg/l 96 hours LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 8.8 mg/l 96 hours

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 contains volatile substances, which may spread in the atmosphere.

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

UN number UN1866
UN proper shipping name RESIN SOLUTION, flammable
Transport hazard class(es) 3
Subsidiary class(es) -
Packing group III
Environmental hazards No
Tunnel restriction code D/E
Labels required 3
Special precautions for user Not available.

RID

UN number UN1866
UN proper shipping name RESIN SOLUTION, flammable
Transport hazard class(es) 3
Subsidiary class(es) -
Packing group III
Environmental hazards No
Labels required 3
Special precautions for user Not available.

ADN

UN number UN1866
UN proper shipping name Resin solution
Transport hazard class(es) 3
Subsidiary class(es) -
Packing group III
Environmental hazards No
Labels required 3
Special precautions for user Not available.

IATA

UN number UN1866
UN proper shipping name Resin solution flammable
Transport hazard class(es) 3
Subsidiary class(es) -
Packing group III
Environmental hazards No
ERG Code 3L
Special precautions for user Not available.

IMDG

UN number UN1866
UN proper shipping name RESIN SOLUTION flammable
Transport hazard class(es) 3
Subsidiary class(es) -
Packing group III
Marine pollutant No
EmS No. F-E, S-E*
Special precautions for user Not available.

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)

Ethyl benzene (CAS 100-41-4)

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

No Chemical Safety Assessment has been carried out.

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 mixture is classified based on test data for physical hazards. 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.

Wording of the R-phrases in sections 2 and 3

R10 Flammable.
R11 Highly flammable.
R20 Harmful by inhalation.
R22 Harmful if swallowed.
R37/38 Irritating to respiratory system and skin.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

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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