SAFETY DATA SHEET

Date of issue: Revision date: 05/9/2017 Supersedes: V1.0 Version: 2.1

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

1.1. Product identifier

Product form	:	Mastic coating
Product name	:	HARCOSIL 19-97
Product Code	:	17-HSS-5
Type of product	:	Top coating

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

1.2.1. Relevant identified uses

Main use category	:	Industrial use / Professional use
Industrial/Professional use spec	:	Wide dispersive use
Use of the substance/mixture	:	Coating

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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info@neptunecoatings.com

Informations : +1 702 751 0460 & Neptune Coatings working days +1 702 410 5500 9 AM to 5PM

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
United States	Neptune Coatings Emergency number (English Speaking)	Las Vegas NV	+1 702 605 3881
United Kingdom	Neptune Coatings Emergency number (English Speaking)	London	+44 203239 7225
United States	National Capital Poison Center		+ 1 800 222 1222
United Kingdom	NPIS Edinburgh (Scottish Poisons Information Bureau) Royal Infirmary of Edinburgh	51 Little France Crescent EH16 4SA Edinburgh	0844 892 0111
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241
Belgique	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 1120 Bruxelles/Brussel	+32 70 245 245
France	Centre Antipoison Hôpital Edouard Herriot	5 Place d'Arsonval F-69437 Lyon Cedex 03	+33 4 72 11 69 11
Nederland	Nationaal Vergiftigingen Informatie Centrum	Huispostnummer B.00.118 PO Box 85500 3508 GA Utrecht	+31 30 274 88 88

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]Mixture/Substance: SDS EU 2015: According to Annex II of Regulation (EC) No. 453/2010 (REACH Annex II)

Flamable liquid	Category 3
Carcinogenicity:	Category 1A
Reproductive toxicity	Category 2

Full text of classification categories and H statement: see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to displayExtra classification(s) to display

Hazard pictograms (CLP) :

Signal word (CLP) : Danger

Hazardous ingredients :

Hazard statements (CLP) :
H226: Flamable liquid and vapour
H350: May cause cancer
H361f: Suspected of damaging fertility

Precautionary statements (CLP) :
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P281 - Use personal protective equipment as required
P210 - Leep away from heat/sparks/open flames - No smoking
P303+P361+P353 - IF ON SKIN: Remove all contaminated clothing. Rinse SKIN with water / shower
P403+P235 - Store in a well-ventilated place. Keep cool.
P308+P313 - IF exposed or concerned: get medical advice /attention
P405 - Store locked up
P501 - Dispose of content and container in accordance with existing federal, state and local environmental control laws

2.3. Other hazards

Uncured product is irritating to eyes, skin and respiratory system. Generates methanol during cure.

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SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP] & GHS
Octadecanoic acid	(CAS No) 57-11-4	1-3%	
Quartz	(CAS No) 14808-60-7	0.1-0.3%	

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

There is no additional ingredient present wich, withing the current knowledge of the supplier and in the concentration applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

3.2. Mixture

No information available

Full text of H-phrases: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
First-aid measures after skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
First-aid measures after eye contact	:	Rinse immediately with plenty of water for 15 minutes. Keep eye wide open while rinsing. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	:	No data available
Symptoms/injuries after skin contact	:	May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash.
Symptoms/injuries after eye contact	:	Causes serious eye irritation with symptoms of reddening, tearing, swelling, and burning
Symptoms/injuries after ingestion	:	No data available

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific Treatment	:	No specific treatment
protection of first aid personnel	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Use dry chemical, CO2, water spray (fog) or foam
Unsuitable extinguishing media		Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	:	Combustible liquid.
Explosion hazard	:	In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Hazardous decomposition products in case of fire	:	Decomposition products may include the following materials: •carbon dioxide •carbon monoxide •metal oxide/oxides Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

5.3. Advice for firefighters

Precautionary measures fire	:	Exposure to fire/heat: keep upwind.
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire- exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Protection during firefighting	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Ventilate enclosed areas. Ventilate closed spaces before entering.

6.1.1. For non-emergency personnel

Protective equipment : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

6.1.2. For emergency responders

Protective equipment : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2. Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

For containment : **Small Spills**:

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment.

Large Spills:

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13 of SDS). Use spark- proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Methods for cleaning up : Take up liquid spill into inert absorbent material. Scoop absorbed substance into closing containers.

6.4. Reference to other sections

No additional information available

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	:	None under normal use.
Precautions for safe handling	:	Put on appropriate personal protective equipment (see section 8 of SDS). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Hygiene measures	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	:	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Incompatible products	:	No information available
Storage temperature	:	1 - 49ºC / 33.8 - 120.2ºF
Packaging materials	:	Stainless steel. Glass. Plastics.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal protective equipment	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Eye protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Respiratory protection	:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

8.2. Exposure controls

Quartz	OSHA PEL 1989 (1989-03-01) Calculated as Quartz Time Weighted Average (TWA) 0.1 mg/m3 Form: respirable dust OSHA - PEL Z3 (1997-09-03) Time Weighted Average (TWA) Form: respirable Time Weighted Average (TWA) 10 mg/m3 Form: respirable Time Weighted Average (TWA) 30 mg/m3 Form: total dust NIOSH REL (1994-06-01) Time Weighted Average (TWA) 0.05 mg/m3 Form: respirable dust ACGIH TLV (2005-12-09) Time Weighted Average (TWA) 0.025 mg/m3 Form: respirable fraction
Octadecanoic acid	No data available

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	No data available
Colour	:	Various
Odour	:	Alcoholic
Odour threshold	:	No data available
pH	:	No data available
pH solution	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	70ºC (158ºF)
Self ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	1.3
Solubility	:	No data available
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosion limits	:	No data available
Volatile organic content	:	24 g/l

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5. Incompatible materials

Reactive or incompatible with the following materials: oxidizing materials
Reacts with water liberating small amounts of methanol.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

LD50 oral rat	:	Not determined
LD50 dermal rabbit	:	Not determined
Skin corrosion/irritation	:	Not determined
Serious eye damage/irritation	:	Not determined
Respiratory or skin sensitisation	:	Not determined
Mammalian cell mutagenicity	:	Not determined
Carcinogenicity	:	Not determined
Reproductive toxicity	:	Not determined
Specific target organ toxicity (single exposure)	:	Not determined
Specific target organ toxicity (repeated exposure)	:	Not determined
Aspiration hazard	:	Not determined

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Product / ingredient name	Category	Target organs
Specific target organ toxicity (single exposure)		
Octadecanoic Acid	Category 3	Respiratory tract irritation
Specific target organ toxicity (repeated exposure)		
Octadecanoic Acid	Category 2	Respiratory tract

Aspiration hazard : Not available
Information on the likely routes of exposure : Not available
Potential acute health effects
Eye contact: No known significant effects or critical hazards
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards
Symptoms related to the physical, chemical and toxicological characteristics
Eye contact: No specific data.
Inhalation: No specific data.
Skin contact: No specific data.
Ingestion: No specific data.
Delayed and immediate effects and also chronic effects from short and long term exposure
Short term exposure
Potential immediate effects: Not available
Potential delayed effects: Not available
Long term exposure
Potential immediate effects: Not available
Potential delayed effects: Not available
Potential chronic health effects
Conclusion/Summary: Not determined
General: No known significant effects or critical hazards.
Carcinogenicity: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.
Numerical measures of toxicity
Acute toxicity estimates: Not available

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SECTION 12: Ecological information

12.1. Toxicity

Conclusion / summary : No data available

12.2. Persistence and degradability

Conclusion / summary No data available

12.3. Bioaccumulative potential

Octadecanoic Acid Potential low

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Sewage disposal recommendations : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. See Section 8 for information on appropriate personal protective equipment.

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SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA
DOT Proper Shipping Name: Combustible liquid, n.o.s.
DOT hazard class: CBL
DOT Label(s): None
UN/NA Number NA 1993
Packing group: III
This product is Combustible as defined by the US Department of Transportation (DOT). It is regulated for transport in the US in container > 119 gallons. The product is not regulated for transport by the IATA, ADR/RID, ADNR or the IMDG regulations.

14.1. UN number

Not additional data available

14.3. Transport hazard class(es)

Not additional data available

14.4. Packing group

Not additional data available

14.5. Environmental hazards

Dangerous for the environment	:	No supplementary information available
Marine pollutant	:	No supplementary information available
Other information	:	No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	:	No information available
Special provision (ADR)	:	No information available
Limited quantities (ADR)	:	No information available
Excepted quantities (ADR)	:	No information available
Packing instructions (ADR)	:	No information available
Special packing provisions (ADR)	:	No information available
Mixed packing provisions (ADR)	:	No information available
Portable tank and bulk container instructions (ADR)	:	No information available
Portable tank and bulk container special provisions (ADR)	:	No information available
Tank code (ADR)	:	No information available
Vehicle for tank carriage	:	No information available
Transport category (ADR)	:	No information available
Special provisions for carriage - Packages (ADR)	:	No information available
Special provisions for carriage - Loading and unloading (ADR)	:	No information available
Hazard identification number (Kemler No.)	:	No information available
Orange plates	:	No information available
Tunnel restriction code (ADR)	:	No information available
EAC code	:	No information available

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- Transport by sea

MFAG-No : No information available

- Air transport

No data available

- Inland waterway transport

Carriage prohibited (ADN) : No information available

Not subject to ADN : No

- Rail transport

Carriage prohibited (RID) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No additional information available

15.1.2. US Federal regulations

United States - TSCA 12(b) - Chemical export notification:	None required.
United States - TSCA 5(a)2 - Proposed significant new use rules:	Not listed
United States - TSCA 5(a)2 - Final significant new use rules:	Not listed
United States - TSCA 5(e) - Substances consent order:	Not listed

SARA 311/312

Classification Fire hazard - Delayed (chronic) health hazard

California Prop.65: WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

15.1.4. Canada

WHMIS (Canada): Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
Class D-2A: Material causing other toxic effects (Very toxic).

15.1.4. International regulations

Canada inventory:	All components are listed or exempted.
Japan inventory:	Not determined.
New Zealand Inventory (NZIoC):	Not determined.
Philippines inventory (PICCS):	Not determined.
United States inventory (TSCA 8b):	All components are listed or exempted.
Korea inventory:	At least one component is not listed.
Taiwan inventory (CSNN):	Not determined.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

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SECTION 16: Other information

Indication of changes:

Classification according to Regulation (EC) No. 1272/2008 [CLP].

SDS (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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