



GLOW STICK

Safety Data Sheet

According to OSHA Hazard Communication Standard 29 CFR 1910.1200

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Ready America Emergency Lightsticks, Ready America Lightsticks, 8 Hour Lightsticks, 12 Hour Lightsticks, Mayday Lightsticks
Product description : 12 Hour Emergency Lightstick, 8 Hour Emergency Lightsticks 2 Pack, 8 Hour Special Value 3 Pack, 12 Hour Mayday 6" Lightstick, Glowstick, Light Stick, Lightstick in Assorted Colors Green, Orange

1.2. Recommended use and restrictions on use

Main use category : Used for Emergency Lighting during Disasters, Blackouts, all occasions
Restrictions on use : No restrictions, no sparks or flames

1.3. Supplier

Supplier : Xiamen Long Afterglow Co., Ltd.
Address : No.1043, Tong Ji Zhong Road, Tong An Area, Xiamen, Fujian Province, China
Phone : +86-592-3675699
FAX : +86-592-3675698
E-mail : elaine@glo-novelty.com
Web : www.glo-novelty.com

Importer : Ready America, Inc.
Address : 1399 Specialty Drive, Vista CA 92081
Phone : 1 800 959 4053
E-mail : customerservice@readyamerica.com
Web : www.readyamerica.com

1.4. Emergency telephone number

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

No labelling applicable
Hazard pictograms (GHS-US) : None
Signal word (GHS-US) : None
Hazard statements (GHS-US) : Not applicable
Precautionary statements (GHS-US) : Not applicable

This technical report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch

Technical Report No.: 64.165.18.00501.02

TÜV SÜD Group

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2018-03-06

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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Dimethyl phthalate	(CAS-No.) 131-11-3	58.5
Butyl benzoate	(CAS-No.) 136-60-7	28.5
Water	(CAS-No.) 7732-18-5	6
Bis[2,3,5-trichloro-6-[(pentyloxy)carbonyl]phenyl] oxalate	(CAS-No.) 75203-51-9	4.7
Hydrogen peroxide	(CAS-No.) 7722-84-1	2.2
Anthracene, 9,10-bis(phenylethynyl)-	(CAS-No.) 10075-85-1	0.1

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show directions for use or safety data sheet if possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing; Give oxygen or artificial respiration if necessary; If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash skin with plenty of water and take off contaminated clothing; If skin irritation or rash occurs: Get medical advice/attention; Wash contaminated clothing before reuse
First-aid measures after eye contact	: Rinse cautiously with water for several minutes while holding the eyelids wide open; Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention
First-aid measures after ingestion	: If swallowed, rinse mouth; Do not induce vomiting; Give nothing or a little water to drink; Never give anything by mouth to an unconscious person; If you feel unwell, seek medical advice;

4.2. Most important symptoms and effects (acute and delayed)

No information available.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use carbon dioxide, dry extinguishing media, water spray, water.
Unsuitable extinguishing media	: None

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Combustion produces toxic or irritating gases and fumes.

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5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
- Other information : Evacuate personnel to a safe area. Move containers from fire area if it can be done without personal risk. Cool tanks/drums with water spray/remove them into safety. Stay upwind. Avoid breathing vapour or dusts. Provide storage and work areas with suitable fire extinguishers. Collect contaminated firefighting water separately, it must not enter drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes and inhalation of vapors

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Stop leak if safe to do so. Evacuate personnel to a safe area; Ensure adequate ventilation, especially in confined areas; No flames, no sparks. Eliminate all sources of ignition.

6.2. Environmental precautions

Although the product is not classified as dangerous to the environment, it is advised that in the event of an accidental release the product should be prevented from reaching the sewage system or any water course, and from penetrating the ground/soil. Dispose of spilled material in accordance with the relevant local regulations. See Section 13 for disposal considerations.

6.3. Methods and material for containment and cleaning up

- For containment : Isolate the spillage. Ensure adequate ventilation. Collect mechanically. Fill into labeled, suitable sealed containers for disposal in accordance with local authority regulations
- Methods for cleaning up : For large amounts: Transfer product into suitable containers.
For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practice
Ensure adequate ventilation, especially in confined areas
Observe personal protective measures listed in section 8.
Do not handle until all safety precautions have been read and understood
Avoid contact with skin, eyes or clothing
Wash contaminated clothing before reuse
Keep away from heat, sparks, flame and other sources of ignition
Avoid breathing vapors or mists
Any deposit of dust which cannot be avoided must be removed regularly.
- Hygiene measures : Do not eat, drink or smoke when using this product.
Always wash hands after handling the product.
Remove contaminated clothing and protective equipment before entering eating areas.
Avoid formation of dust, inhalation and ingestion.
Avoid contact with eyes, skin and clothing.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated place
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep locked up and out of reach of children
Keep away from food, drink and animal feeding stuffs
Always keep in containers of the same material as the original one
Store away from incompatible substances (reducing agents, nitrite salts and potassium chlorate).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Dimethyl phthalate (131-11-3)		
ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³
IDLH	US IDLH (mg/m ³)	2000 mg/m ³
NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³
Butyl benzoate (136-60-7)		
Not applicable		
Bis[2,3,5-trichloro-6-[(pentyloxy)carbonyl]phenyl] oxalate (75203-51-9)		
Not applicable		
Hydrogen peroxide (7722-84-1)		
ACGIH	ACGIH TWA (ppm)	1 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	1.4 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1 ppm
IDLH	US IDLH (ppm)	75 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	1.4 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	1 ppm
Water (7732-18-5)		
Not applicable		
Anthracene, 9,10-bis(phenylethynyl)- (10075-85-1)		
Not applicable		

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Remove all sources of ignition.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear appropriate chemical resistant gloves.

Eye protection:

Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin and body protection:

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Wear appropriate chemical resistant clothing.

Respiratory protection:

The following respirators and maximum use concentrations are drawn from NIOSH and/or OSHA.

50 mg/m³

Any air-purifying full-facepiece respirator equipped with an N95, R95, or P95 filter. The following filters may also be used: N99, R99, P99, N100, R100 or P100.

125 mg/m³

Any supplied-air respirator operated in a continuous-flow mode.

Any powered, air-purifying respirator with a high-efficiency particulate filter.

250 mg/m³

Any air-purifying, full-facepiece respirator equipped with an N100, R100, or P100 filter.

Any self-contained breathing apparatus with a full facepiece.

Any supplied-air respirator with a full facepiece.

2000 mg/m³

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode.

Emergency or planned entry into unknown concentrations or IDLH conditions

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

Escape

Any air-purifying, full-facepiece respirator equipped with an N100, R100, or P100 filter.

Any appropriate escape-type, self-contained breathing apparatus.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Boiling point	: No data available
Flash point	: >200°F (93.3°C) Closed Cup
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: The product is not classified as flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: Not explosive based on experience and structural considerations
Oxidising properties	: Not oxidizing based on experience and structural considerations

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage and handling conditions (see section 7, handling and storage).

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Will not polymerize.

10.4. Conditions to avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

10.5. Incompatible materials

Acids, bases, oxidizing materials.

10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO₂) and other toxic vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Dimethyl phthalate (131-11-3)	
LD50 oral rat	6800 mg/kg
Butyl benzoate (136-60-7)	
LD50 oral rat	735 mg/kg
Hydrogen peroxide (7722-84-1)	
LD50 oral rat	801 mg/kg
LD50 dermal rat	4060 mg/kg
LD50 dermal rabbit	2000 mg/kg
LC50 inhalation rat (mg/l)	2 g/m ³ (Exposure time: 4 h)

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Dimethyl phthalate (131-11-3)	
LC50 fish	49.5 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

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Dimethyl phthalate (131-11-3)	
LC50 fish	39 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
LC50 fish	37 - 69 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 fish	121 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
LC50 fish	100 - 220 mg/l (Exposure time: 96 h - Species: Leuciscus idus [static])
LC50 fish	56 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia	33 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Algae	20.6 - 45.8 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
EC50 Algae	28.4 - 71 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
EC50 Algae	142 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
EC50 Algae	26.1 mg/l (Exposure time: 96 h - Species: Skeletonema costatum)
EC50 Algae	204 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)

Hydrogen peroxide (7722-84-1)	
LC50 fish	16.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
LC50 fish	18 - 56 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 fish	10 - 32 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia	18 - 32 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 Daphnia	7.7 mg/l (Exposure time: 24 h - Species: Daphnia magna [Static])
EC50 Algae	2.5 mg/l (Exposure time: 72 h)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Dimethyl phthalate (131-11-3)	
BCF fish 1	4.7 - 57
Log Pow	2.12

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

Dimethyl phthalate (131-11-3)	
1990 Hazardous Air Pollutant (Clean Air Act)	Yes

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

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Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Dimethyl phthalate (131-11-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

CERCLA RQ	5000 lb
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Butyl benzoate (136-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Hydrogen peroxide (7722-84-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Section 302 EPCRA Reportable Quantity (RQ)	1000 lb concentration >52%
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SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb (concentration >52%)
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Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Anthracene, 9,10-bis(phenylethynyl)- (10075-85-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Dimethyl phthalate (131-11-3)

Listed on the Canadian DSL (Domestic Substances List)

Butyl benzoate (136-60-7)

Listed on the Canadian DSL (Domestic Substances List)

Hydrogen peroxide (7722-84-1)

Listed on the Canadian DSL (Domestic Substances List)

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

Anthracene, 9,10-bis(phenylethynyl)- (10075-85-1)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

Dimethyl phthalate (131-11-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Butyl benzoate (136-60-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Bis[2,3,5-trichloro-6-[(pentylloxy)carbonyl]phenyl] oxalate (75203-51-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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Hydrogen peroxide (7722-84-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Water (7732-18-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Anthracene, 9,10-bis(phenylethynyl)- (10075-85-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Dimethyl phthalate (131-11-3)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on Turkish inventory of chemical
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Butyl benzoate (136-60-7)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on Turkish inventory of chemical
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Bis[2,3,5-trichloro-6-[(pentyloxy)carbonyl]phenyl] oxalate (75203-51-9)

Listed on the Korean ECL (Existing Chemicals List)

Hydrogen peroxide (7722-84-1)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Japanese Poisonous and Deleterious Substances Control Law
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on Turkish inventory of chemical
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Water (7732-18-5)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Anthracene, 9,10-bis(phenylethynyl)- (10075-85-1)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Korean ECL (Existing Chemicals List)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

No additional information available

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch

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SECTION 16: Other information

Issue date : 02-Feb-2018

Revision date : 02-Feb-2018

Full text of H-phrases

None

Key or legend to abbreviations and acronyms used in the safety data sheet

ADR : European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMDG : International Maritime Dangerous Goods

IATA : International Air Transport Association

ADN : European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterway

RID : Regulations Concerning the International Carriage of Dangerous Goods by Rail

PBT : Persistent, Bioaccumulative and Toxic

vPvB : Very Persistent and Very Bioaccumulative

DNEL : Derived No Effect Level

PNEC : Predicted No Effect Concentration

LC50 : Lethal Concentration 50

LD50 : Lethal Dose 50

EC50 : Effective Concentration 50

TWA : Time Weighted Average

STEL : Short Term Exposure Limit

Key literature references and sources for data

ECHA: <http://echa.europa.eu/>

IFA GESTIS: [http://gestis-en.itrust.de/nxt/gateway.dll?f=templates\\$fn=default.htm\\$vid=gestiseng:sdbeng](http://gestis-en.itrust.de/nxt/gateway.dll?f=templates$fn=default.htm$vid=gestiseng:sdbeng)

HSDB: <http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

ICSC: <http://www.ilo.org/dyn/icsc/showcard.home>

eChemPortal: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

NITE-CHRIP: http://www.nite.go.jp/en/chem/chrip/chrip_search/srhInput

SDS US (GHS HazCom 2012)

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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