

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture**Product Name:** PURAMAX Fire Resistant Hydraulic Fluid 200**Product Grades/Codes:**

PURAMAX Fire Resistant Hydraulic Fluid 200 – 2111838510 (Bulk), 21118385 (Tote), 2111838530 (Drum), 2111838550 (Pail)

Synonyms: Fire Resistant Hydraulic Fluid

1.2. Intended Use of the Product

Use of the substance/mixture : Water/Glycol Hydraulic Fluid

1.3. Company Identification

North American Lubricants Company
7337 E. Doubletree Ranch Road, Suite 180
Scottsdale, AZ 85258
(800)430-6252
www.nalube.com

1.4. Emergency Telephone Number

Emergency Number : CHEMTREC: (800)424-9300 or (703)527-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity – Repeated exposure, Category 2	H373

Full text of H-phrases: see section 16

2.2. Label Elements

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GHS-US Labeling
Hazard Pictograms (GHS-US) :

Signal Word (GHS-US) :

Danger

Contains :

Diethylene glycol; Oxirane, 2-methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1, 3-propanediol (3:1); N,N-Dimethylethanolamine; 2-isoprpylaminoethanol;

Hazard Statements (GHS-US) :

 H302 – Harmful if swallowed
 H315 – Causes skin irritation
 H318 – Causes serious eye damage
 H373 – May cause damage to organs through prolonged or repeated exposure

Precautionary Statements (GHS-US) :

 P260 – Do not breathe mist, spray, vapours
 P264 – Wash hands thoroughly after handling
 P270 – Do not eat, drink or smoke when using this product
 P280 – Wear eye protection, protective gloves
 P301+P312 – If swallowed: Call a doctor if you feel unwell
 P302+P352 – If on skin: Wash with plenty of water
 P305+P351+P338 – If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P310 – Immediately call a doctor
 P314 – Get medical advice/attention if you feel unwell
 P321 – Specific treatment (see First aid measures on this label)
 P330 – Rinse mouth
 P332+P313 – If skin irritation occurs: Get medical advice/attention
 P362+P364 – Take off contaminated clothing and wash it before reuse
 P501 – Dispose of contents/container to an authorized waste collection point.

2.3. Other Hazards

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. Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Diethylene glycol	(CAS No) 111-46-6	40 - 50	Acute Tox. 4 (Oral), H302 STOT RE 2, H373 STOT RE 2, H373

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Oxirane,2-methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1, 3-propanediol (3:1)	(CAS No) 52624-57-4	10 - 15	Eye Dam. 1, H318
N, N-Dimethylethanolamine	(CAS No) 108-01-0	1 - 2	Flam. Liq. 3, H226 Acute Tox. 4 (oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation: dust, mist), H332 Skin Corr. 1B, H314 STOT SE 3, H335
Capric acid	(CAS No) 334-48-5	1 - 2	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin Contact: Wash with plenty of soap and water. Remove contaminated clothing. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER and/or obtain medical attention.

Ingestion: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Causes damage to organs

Inhalation: Inhalation may cause: irritation, coughing, shortness of breath. Irritation of the respiratory tract and other mucous membranes.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye damage.

Ingestion: Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

All treatments should be based on observed signs and symptoms of distress in the patient. If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Large fires: fog. Foam. Water spray. Small fires: Dry powder. Carbon dioxide. Sand.

Unsuitable Extinguishing Media: Do not use a solid water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: No specific fire or explosion hazard.

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Explosion Hazard: Product is not explosive.

Reactivity: Hazardous polymerization will not occur.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Wear a self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE); clothing and gloves. Nitrile gloves. Chemical goggles or safety glasses.

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection. Avoid all eye and skin contact and do not breathe vapour and mist. Wear suitable protective clothing and gloves. Nitrile rubber. Chemical goggles or face shield with safety glasses.

Emergency Procedures: Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Absorb and/or contain spill with inert material, then place in suitable container.

Methods for Cleaning Up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.

6.4. Reference to Other Sections

Section 13: disposal information. Section 7 : safe handling. Section 8 : personal protective equipment.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for safe handling: Provide good ventilation in process area to prevent formation of vapour. Avoid breathing mist/vapour/spray. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Keep away from sources of ignition – No smoking.

Hygiene Measures: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from Heat, flame, and sources of ignition.

Incompatible Products: Strong acids, strong bases, strong oxidizers.

Incompatible Materials: Sources of ignition. Heat sources.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Diethylene glycol (111-46-6)
Not applicable
Oxirane, 2-methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (52624-57-4)
Not applicable
Capric acid (334-48-5)
Not applicable
N,N-Dimethylethanolamine (108-01-0)
Not applicable

8.2. Exposure Controls

Appropriate Engineering Controls: Avoid creating mist or spray. Avoid splashing. Eyewash stations. Provide local exhaust ventilation of closed transfer systems to minimize exposures.

Personal Protective Equipment: Avoid all unnecessary exposure.

Hand Protection: Wear suitable gloves. Nitrile rubber gloves. Neoprene gloves. PVC.

Eye Protection: Chemical goggles or face shield. Use splash goggles when eye contact due to splashing is possible.

Skin and Body Protection: Wear suitable protective clothing. Impervious clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Other Information: Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Color	: Red Orange
Odor	: Amine-like
Odor Threshold	: Not available
pH	: 9 - 10
Melting Point	: < -40 C
Freezing Point	: < -40 C
Boiling Point	: Foams
Flash Point	: None
Relative evaporation rate (butylacetate=1)	: No data available
Auto-ignition Temperature	: 260 C
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Explosive Limits	: Not available
Explosive Properties	: Not available
Oxidizing Properties	: Not available

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Vapor Pressure	: < 0.01 mm Hg @ 20 C
Relative Vapor Density at 20 °C	: Not available
Relative Density at 20 C	: Not available
Density	: 1.0874
Solubility	: Soluble in water.
Log Pow	: Not available
Viscosity	: Not available
Viscosity, Kinematic	: Not available
Viscosity, Dynamic	: Not available
Decomposition Temperature	: Not available

9.2. Other Information

No additional information available.

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Hazardous polymerization will not occur.
- 10.2. Chemical Stability:** Stable at ambient temperature and under normal conditions of use.
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Exposure to extremely high temperatures. Heat. Keep away from sources of ignition.
- 10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. Hazardous Decomposition Products:** Aldehydes. Ethers. Thermal decomposition generates: Carbon monoxide. Carbon oxides (CO, CO₂). Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects – Product

Likely routes of exposure: Inhalation. Skin and eye contact.

Acute toxicity: Oral: Harmful if swallowed.

Acute Toxicity: Not classified

AchievAL Fire Resistant Hydraulic Fluid	
ATE US (oral)	1084.623 mg/kg bodyweight
Diethylene glycol (111-46-6)	
LD dermal rat	13300 mg/kg
LC50 inhalation rat (mg/l)	>4.6 mg/l/4h
ATE US (oral)	500.000 mg/kg bodyweight
ATE US (dermal)	13300.000 mg/kg bodyweight
Oxirane, 2-methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydrxymethyl)-1,3-propanediol (3:1) (52624-57-4)	
LD50 oral rate	>2000 mg/kg bodyweight no mortality occurred
Capric acid (334-48-5)	
LD50 oral rat	>10000 mg/kg
LD50 dermal rabbit	>5000 mg/kg bodyweight

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N,N-Dimethylethanolamine (108-01-0)	
LD50 oral rat	1187 mg/kg
LD50 dermal rabbit	>3000 mg/kg
LC50 inhalation rat (mg/l)	6080 mg/m ³ 4 hours
ATE US (oral)	1187.000 mg/kg bodyweight
ATE US (dermal)	1100.000 mg/kg bodyweight
ATE US (dust, mist)	1.500 mmg/l/4h

Skin Corrosion/Irritation: Causes skin irritation.

Eye Damage/Irritation: Causes serious eye damage.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Inhalation may cause: irritation, coughing, shortness of breath.

Irritation of the respiratory tract and the other mucous membranes.

Symptoms/Injuries After Skin Contact: Causes skin irritation.

Symptoms/Injuries After Eye Contact: Causes serious eye damage.

Symptoms/Injuries After Ingestion: Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: No ecotoxicological data about this product are known.

Diethylene glycol (111-46-6)	
LC50 Fish 1	75200 mg/l
EC50 Daphnia 1	>10000 mg/l
Oxirane, 2-methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (52624-57-4)	
LC50 Fish 1	> 10000 mg/l
Capric acid (334-48-5)	
LC50 Fish 1	> 100 mg/l
EC50 other aquatic organisms 1	> 100 mg/l
N,N-Dimethylethanolamine (108-01-0)	
LC50 Fish 1	146.63 mg/l
EC50 Daphnia 1	98.37 mg/l
EC50 other aquatic organisms 1	34.47 mg/l

12.2. Persistence and Degradability

AchievAL Fire Resistant Hydraulic Fluid	
Biochemical oxygen demand (BOD)	1.44 ppm
AchievAL Fire Resistant Hydraulic Fluid	

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Chemical oxygen demand (COD)	2.52 ppm
Diethylene glycol (111-46-6)	
Persistence and degradability	Readily biodegradable
N,N-Dimethylethanolamine (108-01-0)	
Persistence and degradability	Readily biodegradable
Capric acid (334-48-5)	
Persistence and degradability	Readily biodegradable

12.3. Bioaccumulative Potential

AchievAL Fire Resistant Hydraulic Fluid	
Bioaccumulative potential	Not established.
Diethylene glycol (111-46-6)	
Bioconcentration factor (BCF REACH)	100
Log Pow	-1.98
Bioaccumulative potential	Not expected to bioaccumulate
N,N-Dimethylethanolamine (108-01-0)	
Log Pow	-0.55
Bioaccumulative potential	This product is not bioaccumulating
Capric acid (334-48-5)	
Log Pow	4.09

12.4. Mobility in Soil

AchievAL Fire Resistant Hydraulic Fluid	
Ecology – soil	No additional information available.

12.5. Other Adverse Effects

Other Information: No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Sewage Disposal Recommendations: Do not dispose of waste into sewer.

Waste Disposal Recommendations: Dispose in a safe manner in accordance with local/national regulations.

Additional Information: In its present state, this product is not hazardous waste according to Federal Regulations (40 CFR 261.4 (b)(4)).

Ecology – Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

- 14.1. In Accordance with DOT Not regulated for transport
- 14.2. In Accordance with IMDG Not regulated for transport
- 14.3. In Accordance with IATA Not regulated for transport
- 14.4. In Accordance with TDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION

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15.1. US Federal Regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR S372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Oxirane, 2-methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (52624-57-4)	
EPA TSCA Regulatory Flag	XU – XU – indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e., Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))

15.2. International Regulations

Canadian Regulations

AchievAL Fire Resistant Hydraulic Fluid	
WHMIS Classification	Class D Division 2 Subdivision B – Toxic material causing other toxic effects
Diethylene glycol (111-46-6)	
Listed on the Canadian DSL (Domestic Substances List) inventory	
Oxirane, 2-methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (52624-57-4)	
Listed on the Canadian DSL (Domestic Substances List) inventory	
N,N-Dimethylethanolamine (108-01-0)	
Listed on the Canadian DSL (Domestic Substances List) inventory	
Capric acid (334-48-5)	
Listed on the Canadian DSL (Domestic Substances List) inventory	

EU-Regulations

AchievAL Fire Resistant Hydraulic Fluid	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Diethylene glycol (111-46-6)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Oxirane, 2-methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (52624-57-4)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
N,N-Dimethylethanolamine (108-01-0)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Capric acid (334-48-5)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	

National Regulations

Diethylene glycol (111-46-6)	
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory	
Listed on the AICS (Australian Inventory of Chemical Substances)	
Listed on Taiwan National Chemical Inventory	
Listed on NZIoC (New Zealand Inventory of Chemicals)	

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Listed on KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Oxirane, 2-methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (52624-57-4)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
N,N-Dimethylethanolamine (108-01-0)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on Taiwan National Chemical Inventory
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Capric acid (334-48-5)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

15.3. US State Regulations

California Proposition – This product does not contain any substances known to the State of California to cause cancer, developmental and/or reproductive harm.

N,N-Dimethylethanolamine (108-01-0)
U.S. – New Jersey – Right to Know Hazardous Substance List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

For more information contact your North American Lubricants Representative.

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Other Information : None.

GHS Full Text Phrases:

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure

Abbreviations and Acronyms:

ACHIG (American Conference of Government Industrial Hygienists)
ATE: Acute Toxicity Estimate
CAS (Chemical Abstracts Service) number
CLP: Classification, Labelling, Packaging.
EC50: Environmental Concentration with a response by 50% of the test population.
GHS: Globally Harmonized System (of Classification and Labeling of Chemicals)
OSHA: Occupational Safety & Health Administration
LD50: Lethal Dose for 50% of the test population
STEL: Short Term Exposure Limits
TSCA: Toxic Substances Control Act
TWA: Time Weight Average

NFPA health Hazard: 2- Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard: 1- Must be preheated before ignition can occur.

NFPA reactivity: 0- Normally stable, even under fire exposure conditions, and not reactive with water.


Party Responsible for the Preparation of This Document

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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.