

Safety Data Sheet According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Revision Date: 03/28/2017 Date of Issue: 03/28/2017

Version: 1.0

**SECTION 1: IDENTIFICATION** 1.1. **Product Identifier** Product Form: Mixtures Product Name: NANO **Intended Use of the Product** 1.2. Use of the Substance/Mixture: Vacuum forming Name, Address, and Telephone of the Responsible Party 1.3. Company Paceline, Inc. 10737 Independence Pointe Parkway Matthews, NC 28105 800-443-1827 1.4. **Emergency Telephone Number Emergency Number** : Infotrac 1-800-535-5053 SECTION 2: HAZARDS IDENTIFICATION **Classification of the Substance or Mixture** 2.1. **GHS-US Classification** Flam. Liq. 3 H226 Skin Irrit. 2 H315 Eye Irrit. 2A H319 Carc. 1B H350 Repr. 2 H361 STOT SE 3 H335 STOT RE 1 H372 Asp. Tox. 1 H304 Aquatic Acute 2 H401 **Aquatic Chronic 3** H412 Full text of hazard classes and H-statements : see section 16 2.2. Label Elements **GHS-US Labeling** Hazard Pictograms (GHS-US) Signal Word (GHS-US) : Danger Hazard Statements (GHS-US) : H226 - Flammable liquid and vapor. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H350 - May cause cancer. H361 - Suspected of damaging fertility or the unborn child. H372 - Causes damage to organs through prolonged or repeated exposure. H401 - Toxic to aquatic life. H412 - Harmful to aquatic life with long lasting effects. **Precautionary Statements (GHS-US)** : P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from extremely high or low temperatures, ignition sources, and incompatible materials. - No smoking. P240 - Ground/Bond container and receiving equipment. P241 - Use explosion-proof electrical, ventilating, and lighting equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P260 - Do not breathe vapors, mist, or spray.

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P264 - Wash hands, forearms, and other exposed areas thoroughly after handling. P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye protection.

P301+P310 - If swallowed: Immediately call a poison center or doctor.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a poison center or doctor if you feel unwell.

P314 - Get medical advice/attention if you feel unwell.

P321 - Specific treatment (see section 4 on this SDS).

P331 - Do NOT induce vomiting.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide  $(CO_2)$  to extinguish.

P403+P233+P235 - Store in a well-ventilated place. Keep container tightly closed. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

#### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

#### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product Identifier	%	<b>GHS-US classification</b>
Styrene	(CAS-No.) 100-42-5	40 - 50	Flam. Liq. 3, H226
			Acute Tox. 4 (Oral), H302
			Acute Tox. 4
			(Inhalation:vapor), H332
			Skin Irrit. 2, H315
			Eye Irrit. 2A, H319
			Carc. 1B, H350
			Repr. 2, H361
			STOT SE 3, H335
			STOT RE 1, H372
			Asp. Tox. 1, H304
			Aquatic Acute 2, H401
			Aquatic Chronic 3, H412

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N,N-Diethylaniline	(CAS-No.) 91-66-7	<1	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331
			Aquatic Acute 2, H401 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

#### **SECTION 4: FIRST AID MEASURES**

#### 4.1. Description of First-aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**First-aid Measures After 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

**Symptoms/Injuries:** Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation: Irritation of the respiratory tract and the other mucous membranes.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

**Symptoms/Injuries After Ingestion:** Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury. **Chronic Symptoms:** May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. May cause damage to central nervous system and liver.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Water may be ineffective but water should be used to keep fire-exposed container cool.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

#### 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Flammable liquid and vapor.

**Explosion Hazard:** May form flammable or explosive vapor-air mixture.

**Reactivity:** Reacts violently with strong oxidizers. Increased risk of fire or explosion.

#### 5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Hydrocarbons.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges. Do not breathe vapor, mist or spray.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Stop leak if safe to do so.

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#### 6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area. Eliminate ignition sources.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

#### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools.

#### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

#### **SECTION 7: HANDLING AND STORAGE**

#### 7.1. Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable. Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid contact with eyes, skin and clothing. Do not handle until all safety precautions have been read and understood. Do not breathe vapors, spray, mist. Obtain special instructions before use.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

**Storage Conditions:** Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place.

**Incompatible Products:** Strong acids, strong bases, strong oxidizers. Copper and its alloys.

#### 7.3. Specific End Use(s)

Vacuum forming.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Styrene (100-	-42-5)	
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA ACGIH	ACGIH STEL (ppm)	40 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA ACGIH	Biological Exposure Indices (BEI)	400 mg/g Kreatinin Parameter: Mandelic acid plus phenylglyoxylic acid - Medium: urine - Sampling time: end of shift (nonspecific) 40 μg/l Parameter: Styrene - Medium: urine - Sampling time: end of shift
USA NIOSH	NIOSH REL (TWA) (mg/m³)	215 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	50 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	425 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (STEL) (ppm)	100 ppm
USA IDLH	US IDLH (ppm)	700 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm

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8.2. **Exposure Controls Appropriate Engineering Controls** : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosionproof equipment. **Personal Protective Equipment** : Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. **Materials for Protective Clothing** : Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing. Hand Protection : Wear protective gloves. **Eve Protection** : Chemical safety goggles. **Skin and Body Protection** : Wear suitable protective clothing. **Respiratory Protection** : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection. **Other Information** : When using, do not eat, drink or smoke. **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES** Information on Basic Physical and Chemical Properties 9.1. **Physical State** : Liquid Appearance : No data available Odor : No data available **Odor Threshold** : No data available

рН	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Solubility	: No data available
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available
9.2. Other Information No additional infor	rmation available

### SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity:** Reacts violently with strong oxidizers. Increased risk of fire or explosion.

10.2. Chemical Stability: Flammable liquid and vapor. May form flammable or explosive vapor-air mixture.

**10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**10.4.** Conditions to Avoid: Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

**10.5.** Incompatible Materials: Strong acids, strong bases, strong oxidizers. Copper and its alloys.

10.6. Hazardous Decomposition Products: None expected under normal conditions of use.

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#### SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

Styrene (100-42-5)		
LD50 Oral Rat	1000 mg/kg	
LC50 Inhalation Rat	11.7 mg/l/4h	
N,N-Diethylaniline (91-66-7)		
LD50 Oral Rat	606 mg/kg	
LD50 Dermal Rat	> 5000 mg/kg	
LC50 Inhalation Rat	1920 mg/m <sup>3</sup> (Exposure time: 4 h)	
ATE (Oral)	100.00 mg/kg body weight	
ATE (Dermal)	300.00 mg/kg body weight	
ATE (Dust/Mist)	0.50 mg/l/4h	

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: May cause cancer.

Styrene (100-42-5)	
IARC group	2B
National Toxicology Program (NTP) StatusReasonably anticipated to be Human Carcinogen.	
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

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

Aspiration Hazard: May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation: Irritation of the respiratory tract and the other mucous membranes.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury. Chronic Symptoms: May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. May cause damage to central nervous system and liver.

#### SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity		
Ecology - General	: Toxic to aquatic life. Harmful to aquatic life with long lasting effects.	
Styrene (100-42-5)		
LC50 Fish 1	3.24 - 4.99 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
EC50 Daphnia 1	3.3 - 7.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 Fish 2	19.03 - 33.53 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
NOEC (Acute)	44 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight])	
N,N-Diethylaniline (91-66-7)		
LC50 Fish 1	16.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
EC50 Daphnia 1	1.0 - 1.6 mg/l (Exposure time: 48 h - Species: Daphnia magna [semi-static])	
LC50 Fish 2	38.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	
EC50 Daphnia 2	1.3 mg/l	
12.2. Persistence and Degrada	bility	
NANO		
Persistence and Degradability	May cause long-term adverse effects in the environment	

#### Persistence and Degradability May cause long-term adverse effects in the environment. 12.3. **Bioaccumulative Potential** ΝΔΝΟ

Bioaccumulative Potential Not established.		
Styrene (100-42-5)		
BCF Fish 1 13.5		
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Log Pow	2.95
N,N-Diethylaniline (91-66-7)	
BCF Fish 1	17 - 125
Log Pow	3.31

12.4. Mobility in Soil No additional information available

**12.5.** Other Adverse Effects Other Information

: Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste Treatment Methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable.

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

#### **SECTION 14: TRANSPORT INFORMATION**

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

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14.1. In Accordance with DOT				
Proper Shipping Name Hazard Class	: RESIN SOLUTION (Contains Styrene) : 3			
Identification Number	: UN1866			
Label Codes	: 3			
Packing Group	: 111			
ERG Number	: 127			
14.2. In Accordance with	IMDG			
Proper Shipping Name	: RESIN SOLUTION (Contains Styrene)			
Hazard Class	: 3			
Identification Number	: UN1866			
Packing Group	: 111			
Label Codes	: 3			
EmS-No. (Fire)	: F-E < 🗳			
EmS-No. (Spillage)	: S-E			
14.3. In Accordance with	ΙΑΤΑ			
Proper Shipping Name	: RESIN SOLUTION (Contains Styrene)			
Packing Group	: 111			
Identification Number	: UN1866			
Hazard Class	: 3			
Label Codes	: 3			
ERG Code (IATA)	: 3L			

### **SECTION 15: REGULATORY INFORMATION**

15.1. US Federal Regulations	
NANO	
SARA Section 311/312 Hazard Classes	Fire hazard
	Immediate (acute) health hazard
	Delayed (chronic) health hazard
Styrene (100-42-5)	
Listed on the United States TSCA (Toxic Substances Cont	rol Act) inventory
Subject to reporting requirements of United States SARA	Section 313
CERCLA RQ	1000 lb
SARA Section 313 - Emission Reporting	0.1 %
N,N-Diethylaniline (91-66-7)	
Listed on the United States TSCA (Toxic Substances Cont	rol Act) inventory
CERCLA RQ	1000 lb

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#### LIS State Pegulation 1 - 2

15.2. US State Regulations	
Styrene (100-42-5)	
U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of
	California to cause cancer.
ityrene (100-42-5)	
J.S Massachusetts - Right To Know List	
J.S New Jersey - Right to Know Hazardous Substance	
J.S Pennsylvania - RTK (Right to Know) - Environmen	ital Hazard List
J.S Pennsylvania - RTK (Right to Know) List	
N,N-Diethylaniline (91-66-7)	
J.S Massachusetts - Right To Know List	
J.S New Jersey - Right to Know Hazardous Substance	e List
J.S Pennsylvania - RTK (Right to Know) List	
	NG DATE OF PREPARATION OR LAST REVISION
Date of Preparation or Latest Revision	: 03/28/2017
Other Information	: This document has been prepared in accordance with the SDS
	requirements of the OSHA Hazard Communication Standard 29 CFR
	1910.1200
iHS Full Text Phrases:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation:vapor)	Acute toxicity (inhalation:vapor) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1B	Carcinogenicity Category 1B
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H227	Combustible liquid
H301	Toxic if swallowed
H302	Harmful if swallowed
11204	

May be fatal if swallowed and enters airways

Suspected of damaging fertility or the unborn child

Causes damage to organs through prolonged or repeated exposure

Toxic in contact with skin

Causes serious eye irritation

May cause respiratory irritation

Causes skin irritation

Toxic if inhaled

Harmful if inhaled

May cause cancer

Toxic to aquatic life

H304

H311

H315

H319

H331

H332

H335

H350

H361 H372

H401

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H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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.

SDS US (GHS HazCom)