



OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 05/22/2023 Reviewed on 05/22/2023

1 Identification

- · Product Identifier
- · Trade Name: Techniplast 400 NANO (component A)
- · Relevant identified uses of the substance or mixture and uses advised against:
- · Product Description: Raw material for industrial and consumer use
- · Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier:

Techniart US LLC

201 Montgomery Street, 2nd Floor

Jersey City, NJ 07302 office@techniart-us.com P: +1 (212) 287 9637

· Emergency telephone number: 1-800-633-8253 / Local +1-801-629-0667

2 Hazard(s) Identification

· Classification of the substance or mixture:



Skin Irritation 2 H315 Causes skin irritation.

Eye Irritation 2A H319 Causes serious eye irritation.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

Aquatic Acute 3 H402 Harmful to aquatic life.

- · Label elements:
- · Hazard pictograms:



- · Signal word: Warning
- · Hazard-determining components of labeling:

bis[4-(2,3-epoxypropoxy)phenyl]propane

formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol oxirane, mono[(C12-14-alkyloxy)methyl] derivs

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

· Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H402 Harmful to aquatic life.

· Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

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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.

Take off contaminated clothing and wash it before reuse. P362+P364 If skin irritation occurs: Get medical advice/attention. P332+P313 If skin irritation or rash occurs: Get medical advice/attention. P333+P313

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

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

P363 Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local/regional/national/international P501

regulations.

Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

2 % of the mixture consists of component(s) of unknown toxicity.

· Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· NFPA ratings (scale 0 - 4)



Health = 2 Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



2 Health = 2 Fire = 3

REACTIVITY O Physical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None known

Composition/Information on Ingredients

- · Chemical characterization: Substance
- · Description: Mixture of substances listed below with non-hazardous additions.

· Dangerous	· Dangerous Components:		
	bis[4-(2,3-epoxypropoxy)phenyl]propane	70-90%	
	 Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317 Specific concentration limits: Eye Irritation 2; H319: C ≥ 5 % Skin Irritation 2; H315: C ≥ 5 % 		
9003-36-5	formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	10-30%	
	♦ Skin Irritation 2, H315; Sensitization - Skin 1, H317		
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	5-20%	
	♦ Skin Irritation 2, H315; Sensitization - Skin 1, H317		
41556-26-7	Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	≤5%	
	♦ Aquatic Acute 1, H400; ♦ Sensitization - Skin 1, H317		

Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

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4 First-Aid Measures

- · Description of first aid measures
- · General information: If symptoms persist, call a physician.
- · After inhalation: In case of unconsciousness place patient stably in the side position for transportation.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

If easy to do so, remove contact lenses if worn.

If eye irritation occurs, consult a doctor.

- · After swallowing: If swallowed and symptoms occur, consult a doctor.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5 Fire-Fighting Measures

- Extinguishing media
- · Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: No further relevant information.
- Special hazards arising from the substance or mixture: No further relevant information available.
- · Advice for firefighters
- Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

* 6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures: Not required.
- · Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· PAC-1:	
1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane	39 mg/m³
· PAC-2:	
1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane	430 mg/m ³

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· PAC-3:

1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

2,600 mg/m³

7 Handling and Storage

- · Handling
- Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles:

Store in a cool, dry place in tightly closed receptacles.

Store at room temperature.

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:
- Components with occupational exposure limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- Personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

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· Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· Eye protection:



Tightly sealed goggles

· Limitation and supervision of exposure into the environment:

Keep away from drains, surface and ground waters. Avoid release into the environment.

9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form:
Color:
Colorless
Odor:
Odor threshold:

PH-value:
Liquid
Colorless
Characteristic
Not determined.

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:Not determined.
≥200 °C (≥392 °F)Flash point:≥150 °C (≥302 °F)Flammability (solid, gaseous):Not applicable.Auto igniting:≥300 °C (≥572 °F)

· Decomposition temperature: Not determined.

· *Ignition temperature:* Product is not self-igniting.

• Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined. **Upper:** Not determined.

Vapor pressure @ 20 °C (68 °F): ≤82 hPa (≤61.5 mm Hg)
 Density @ 20 °C (68 °F): 1.13 g/cm³ (9.4299 lbs/gal)

Relative density:

 Vapor density:
 Evaporation rate:

 Not determined.
 Not determined.

· Solubility in / Miscibility with:

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

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· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

· Solvent content:

VOC content: 0.00 %

· Other information: No further relevant information available.

10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- Chemical stability: Product is stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: Contact with strong oxidizers, acidic chemicals and alkali chemicals.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:

· LD/LC50 v	LD/LC50 values that are relevant for classification:					
9003-36-5 formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol						
Oral	LD50	>2,000 mg/kg (Rat)				
Dermal	LD50	>2,000 mg/kg (Rabbit)				
Inhalative	LC50/96 hours	2.54 mg/l (Zebra fish)				
68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs						
Oral	LD50	19,200 mg/kg (Rat)				
Dermal	LD50	4,500 mg/kg (Rabbit)				
41556-26-	41556-26-7 Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate					
Oral	LD50	2,369-4,247 mg/kg (Rat)				

- Primary irritant effect:
- · On the skin:

Irritant to skin and mucous membranes.

May cause an allergic skin reaction.

- · On the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- Carcinogenic categories:
- · IARC (International Agency for Research on Cancer):

Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

Group 3 - Not classifiable as to its carcinogenicity to humans

Group 4 - Probably not carcinogenic to humans





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1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

• NTP (National Toxicology Program):

None of the ingredients are listed.

• OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

12 Ecological Information

- · Toxicity:
- · Aquatic toxicity:

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

9003-36-5 formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

EC50 >1,000 mg/l (Green algae)

2.55 mg/l (Daphnia)

- · Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- Ecotoxical effects:
- · Remark:

Toxic for fish

Harmful to fish

- Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Harmful to aquatic organisms

- Results of PBT and vPvB assessment:
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

13 Disposal Considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household waste. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

- · Uncleaned packaging
- · **Recommendation:** Disposal must be made according to official regulations.

*14 Transport Information

· UN-Number:

· DOT · ADR/ADN, IMDG, IATA Non-Regulated Material

UN3082

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Trade Name: Techniplast 400 NANO (component A)

· UN proper shipping name:

· **DOT** Non-Regulated Material

· **ADR/ADN** UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S.

· IMDG, IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

· Transport hazard class(es):

· DOT

· Class: Non-Regulated Material

· ADR/ADN



• Class: 9 (M6) Miscellaneous dangerous substances and articles

· Label:

· IMDG



• *Class:* 9 Miscellaneous dangerous substances and articles

· Label:

·IATA



· Class: 9 Miscellaneous dangerous substances and articles

· Label:

· Packing group:

· **DOT** Non-Regulated Material

· ADR/ADN, IMDG, IATA

· Environmental hazards:

Special marking (ADR/ADN):
 Special marking (IATA):
 Symbol (fish and tree)

· Special precautions for user: Warning: Miscellaneous dangerous substances and articles

· Hazard identification number (Kemler code): 90 · EMS Number: F-A,S-F · Stowage Category A

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.

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Trade Name: Techniplast 400 NANO (component A)

· Transport/Additional information:

· ADR/ADN

· Excepted quantities (EQ): Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· IMDG

· Limited quantities (LQ): 5L

Excepted quantities (EQ): Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation": UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. 9, III

15 Regulatory Information

- Safety, health and environmental regulations/legislation specific for the substance or mixture:

 No further relevant information available.
- · SARA (Superfund Amendments and Reauthorization):
- Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

None of the ingredients are listed.

- · California Proposition 65:
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· New Jersey Right-to-Know List:

None of the ingredients are listed.

New Jersey Special Hazardous Substance List:

None of the ingredients are listed.

Pennsylvania Right-to-Know List:

None of the ingredients are listed.

· Pennsylvania Special Hazardous Substance List:

None of the ingredients are listed.

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Trade Name: Techniplast 400 NANO (component A)

· Carcinogenic categories:

EPA (Environmental Protection Agency):

None of the ingredients are listed.

· TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



· Signal word: Warning

· Hazard-determining components of labeling:

bis[4-(2,3-epoxypropoxy)phenyl]propane

formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

oxirane, mono[(C12-14-alkyloxy)methyl] derivs

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H402 Harmful to aquatic life.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

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.

P362+P364 Take off contaminated clothing and wash it before reuse.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

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

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· National regulations:

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Contact

· Abbreviations and acronyms:

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

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, ÉU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A

Sensitization - Skin 1: Skin sensitisation - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard - Category 3

* Data compared to the previous version altered.

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