

## N3D-CAST245

**1. PRODUCT AND COMPANY IDENTIFICATION****Company**

Arkema Inc.  
900 First Avenue  
King of Prussia, Pennsylvania 19406

**Sartomer**

**Customer Service Telephone Number:** (800) SARTOMER  
(Monday through Friday, 8:00 AM to 5:00 PM EST)

**Emergency Information**

**Transportation:** CHEMTREC: (800) 424-9300  
(24 hrs., 7 days a week)

**Medical:** Rocky Mountain Poison Center: (866) 767-5089  
(24 hrs., 7 days a week)

**Product Information**

**Product name:** N3D-CAST245  
**Synonyms:** N3XTDIMENSION® N3D-CAST245  
**Molecular formula:** Proprietary Mixture  
**Chemical family:** acrylic  
**Product use:** 3D printing

**SECTION 2: HAZARDS IDENTIFICATION****Emergency Overview**

**Color:** purple  
**Physical state:** liquid  
**Odor:** acrylic-like

**\*Classification of the substance or mixture:**

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin irritation, Category 2, H315  
Skin sensitisation, Category 1, H317  
Carcinogenicity, Category 2, H351  
Reproductive toxicity, Category 2, H361  
Acute aquatic toxicity, Category 1, H400  
Chronic aquatic toxicity, Category 1, H410

\*For the full text of the H-Statements mentioned in this Section, see Section 16.

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**GHS-Labeling**

Hazard pictograms:



Signal word:

**Warning****Hazard statements:**

- H315 : Causes skin irritation.
- H317 : May cause an allergic skin reaction.
- H351 : Suspected of causing cancer.
- H361 : Suspected of damaging fertility or the unborn child.
- H410 : Very toxic to aquatic life with long lasting effects.

**Supplemental Hazard Statements:**

Processing may release vapors and/or fumes which cause eye, skin and respiratory tract irritation.

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**Precautionary statements:****Prevention:**

P201 : Obtain special instructions before use.  
 P202 : Do not handle until all safety precautions have been read and understood.  
 P261 : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 : Wash skin thoroughly after handling.  
 P272 : Contaminated work clothing should not be allowed out of the workplace.  
 P273 : Avoid release to the environment.  
 P280 : Wear protective gloves.  
 P281 : Use personal protective equipment as required.

**Response:**

P302 + P352 : IF ON SKIN: Wash with plenty of soap and water.  
 P308 + P313 : IF exposed or concerned: Get medical advice/ attention.  
 P333 + P313 : If skin irritation or rash occurs: Get medical advice/ attention.  
 P362 : Take off contaminated clothing and wash before reuse.  
 P391 : Collect spillage.

**Storage:**

P405 : Store locked up.

**Disposal:**

P501 : Dispose of contents or container to an approved waste disposal plant.

**Supplemental information:****Potential Health Effects:**

Possible cross sensitization with other acrylates and methacrylates. Effects due to processing releases or residual monomer: Irritating to eyes, respiratory system and skin.  
 Prolonged or repeated exposure may cause: headache, drowsiness, nausea, weakness, (severity of effects depends on extent of exposure).

**Other:**

Product not completely tested. Take maximum precautions when handling. This product may release fume and/or vapor of variable composition depending on processing time and temperature.

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

Chemical name	CAS-No.	Wt/Wt	GHS Classification**
Acrylate monomer	Proprietary*	>= 30 - < 60 %	H315, H317, H411

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Urethane oligomer	Proprietary*	>= 30 - < 60 %	H317, H411
Acrylate ester	Proprietary*	>= 10 - < 30 %	H317, H400, H410
Proprietary Component	Proprietary*	>= 1 - < 5 %	Not classified
Photoinitiator	Proprietary*	>= 1 - < 5 %	H317, H411
2-Propenoic acid, 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester	15625-89-5	>= 1 - < 2 %	H315, H319, H317, H351, H400, H410
Free Radical Initiator	Proprietary*	>= 0.1 - < 1 %	H317, H413
Proprietary Acrylic	Proprietary*	>= 0.1 - < 1 %	H317, H361, H411

\*The specific chemical identity is withheld because it is trade secret information of Arkema Inc.

\*\*For the full text of the H-Statements mentioned in this Section, see Section 16.

#### SECTION 4: FIRST AID MEASURES

##### 4.1. Description of necessary first-aid measures:

###### Inhalation:

If inhaled, remove victim to fresh air.

###### Skin:

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In case of contact, immediately flush skin with soap and plenty of water. Get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eyes:**

Immediately flush eye(s) with plenty of water.

**Ingestion:**

If swallowed, DO NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.

**4.2. Most important symptoms/effects, acute and delayed:**

For most important symptoms and effects (acute and delayed), see Section 2 (Hazard Statements and Supplemental Information if applicable) and Section 11 (Toxicology Information) of this SDS.

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

Unless otherwise noted in Notes to Physician, no specific treatment noted; treat symptomatically.

**SECTION 5: FIREFIGHTING MEASURES****Extinguishing media (suitable):**

Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Dry chemical

**Protective equipment:**

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand / NIOSH approved or equivalent).

**Further firefighting advice:**

Fight fire from a protected location.

Cool closed containers exposed to fire with water spray.

Closed containers of this material may explode when subjected to heat from surrounding fire.

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

Fire fighting equipment should be thoroughly decontaminated after use.

**Fire and explosion hazards:**

When burned, the following hazardous products of combustion can occur:

Carbon oxides

Hazardous organic compounds

Phosphorus compounds

Amines

Nitrogen oxides (NO<sub>x</sub>)

Isocyanates

hydrogen cyanide

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, Emergency procedures, Methods and materials for containment/clean-up:**

Prevent further leakage or spillage if you can do so without risk. Ventilate the area. Avoid generation of vapors. Contain and collect spillage with non-combustible absorbent material such as clean sand, earth, diatomaceous earth or non-acidic clay and place into suitable properly labeled containers for prompt disposal. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

**Protective equipment:**

Appropriate personal protective equipment is set forth in Section 8.

**SECTION 7: HANDLING AND STORAGE****Handling****General information on handling:**

Do not taste or swallow.  
Avoid breathing vapor or mist.  
Avoid contact with skin, eyes and clothing.  
Keep container closed.  
Use only with adequate ventilation.  
Wash thoroughly after handling.  
Emptied container retains vapor and product residue.  
Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

**Storage****General information on storage conditions:**

Keep in a dry, cool place. Store in closed containers, in a secure area to prevent container damage and subsequent spillage. Store out of direct sunlight in a cool well-ventilated place. Keep stabilizer levels constant to avoid explosive polymerization. An air space is required above the liquid in all containers; avoid storage under an oxygen-free atmosphere.

**Storage stability – Remarks:**

Inhibitor levels should be maintained. The typical shelf-life for this product is 6 months.

**Storage incompatibility – General:**

Store separate from:  
Strong oxidizing agents  
Strong reducing agents  
Free radical generators  
Inert gas  
Oxygen scavenger.  
Peroxides

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**Temperature tolerance – Do not store below:**  
32 °F (0 °C)

**Temperature tolerance – Do not store above:**  
100 °F (38 °C)

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Airborne Exposure Guidelines:

#### 2-Propenoic acid, 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester (15625-89-5)

US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended

Time weighted average	1 mg/m <sup>3</sup>
Remarks:	Avoid skin or eye contact with liquids or aerosols.
Remarks:	Listed
Skin designation	
Remarks:	Can be absorbed through the skin.

Only those components with exposure limits are printed in this section. Limits with skin contact designation above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required. Limits with a sensitizer designation above mean that exposure to this material may cause allergic reactions.

### **Engineering controls:**

Investigate engineering techniques to reduce exposures below airborne exposure limits or to otherwise reduce exposures. Provide ventilation if necessary to minimize exposures or to control exposure levels to below airborne exposure limits (if applicable see above). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

### **Respiratory protection:**

Avoid breathing vapor or mist. Where airborne exposure is likely or airborne exposure limits are exceeded (if applicable, see above), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. Consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure or where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

### **Skin protection:**

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Avoid natural

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rubber gloves. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing immediately and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash thoroughly after handling.

**Eye protection:**

Use good industrial practice to avoid eye contact. Processing of this product releases vapors or fumes which may cause eye irritation. Where eye contact may be likely, wear chemical goggles and have eye flushing equipment available.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Color:</b>	purple
<b>Physical state:</b>	liquid
<b>Odor:</b>	acrylic-like
<b>Odor threshold:</b>	No data available.
<b>Flash point</b>	No data available
<b>Auto-ignition temperature:</b>	No data available.
<b>Lower flammable limit (LFL):</b>	No data available.
<b>Upper flammable limit (UFL):</b>	No data available.
<b>pH:</b>	No data available.
<b>Density:</b>	No data available
<b>Specific Gravity (Relative density):</b>	No data available
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Boiling point/boiling range:</b>	No data available.
<b>Melting point/range:</b>	No data available.
<b>Freezing point:</b>	No data available.
<b>Evaporation rate:</b>	No data available.



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<b>Solubility in water:</b>	No data available.
<b>Viscosity, dynamic:</b>	120 CPS 77 °F (25 °C)
<b>Oil/water partition coefficient:</b>	No data available.
<b>Thermal decomposition:</b>	No data available.
<b>Flammability:</b>	See GHS Classification in Section 2 if applicable

**SECTION 10: STABILITY AND REACTIVITY****Stability:**

This material is chemically stable under normal and anticipated storage, handling and processing conditions. However, this material can undergo hazardous polymerization.

**Hazardous reactions:**

Hazardous polymerisation may occur.  
Polymerization is exothermic and can degenerate into an uncontrolled reaction.

**Materials to avoid:**

Strong reducing agents  
Free radical generators  
Inert gas  
Oxygen scavenger.  
Peroxides  
Strong oxidizing agents

**Conditions / hazards to avoid:**

This material polymerizes exothermically in the presence of heat, contamination, oxygen free atmosphere, free radicals, peroxides and inhibitor depletion liberating heat. Avoid direct sunlight. Do NOT expose to ultraviolet light.

**Hazardous decomposition products:**

Thermal decomposition giving flammable and toxic products :  
Carbon oxides  
Methacrylates  
Amines  
Nitrogen oxides (NO<sub>x</sub>)  
Isocyanates  
Hazardous organic compounds  
Hydrogen cyanide  
Acrylates  
Phosphorus compounds

**SECTION 11: TOXICOLOGICAL INFORMATION**

Data on this material and/or its components are summarized below.

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**N3D-CAST245****Data for Acrylate monomer (Proprietary)****Acute toxicity****Oral:**

May be harmful if swallowed. (rat) LD50 > 2,000 mg/kg.

**Dermal:**

No deaths occurred. (rat) LD0 > 2,000 mg/kg.

**Skin Irritation:**

Causes skin irritation. (rabbit) (4 h)

**Eye Irritation:**

Causes mild eye irritation. (rabbit)

**Skin Sensitization:**

May cause an allergic skin reaction. LLNA: Local Lymph Node Assay. (mouse) Skin allergy was observed.

**Repeated dose toxicity**

Repeated oral administration to rat / affected organ(s): Gastro-intestinal tract, Stomach / signs: At high dose :, Local irritation / No adverse systemic effects reported.

**Genotoxicity****Assessment in Vitro:**

No genetic changes were observed in laboratory tests using: bacteria, animal cells

**Genotoxicity****Assessment in Vivo:**

No genetic changes were observed in a laboratory test using: mice

**Developmental toxicity**

Reproductive/Developmental Effects Screening Assay. Oral (rat) / No birth defects were observed.

**Reproductive effects**

Reproductive/Developmental Effects Screening Assay. Oral (rat) / No toxicity to reproduction.

**Other information**

Possible cross sensitization with other acrylates and methacrylates.

**Data for Urethane oligomer (Proprietary)****Acute toxicity****Oral:**

Practically nontoxic. (rat) LD50 > 5,000 mg/kg.

**Dermal:**

No deaths occurred. (rabbit) LD0 > 2,000 mg/kg.

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**Skin Irritation:**

Not irritating. (rabbit) (4 h) (occluded exposure)

**Eye Irritation:**

Not irritating. (rabbit)

**Skin Sensitization:**

May cause allergic skin reaction. LLNA: Local Lymph Node Assay. (mouse) Skin allergy was observed.

**Repeated dose toxicity**

Subchronic oral administration to rat / affected organ(s): liver / signs: changes in organ weights

**Genotoxicity****Assessment in Vitro:**

No genetic changes were observed in a laboratory test using: bacteria, animal cells

**Reproductive effects**

Reproductive/Developmental Effects Screening Assay. Oral (rat) / No toxicity to reproduction.

**Data for Acrylate ester (Proprietary)****Acute toxicity****Oral:**

No deaths occurred. (rat) LD0 > 2,000 mg/kg.

**Dermal:**

No deaths occurred. (rat) LD0 > 2,000 mg/kg.

**Skin Irritation:**

Not irritating. (In vitro) EPISKIN Human Skin Model Test

**Eye Irritation:**

Not irritating. (rabbit)

**Skin Sensitization:**

May cause an allergic skin reaction. LLNA: Local Lymph Node Assay. (mouse) Skin allergy was observed.

**Repeated dose toxicity**

Repeated oral administration to rat / No adverse systemic effects reported.

**Genotoxicity****Assessment in Vitro:**

No genetic changes were observed in laboratory tests using: bacteria, animal cells

**Reproductive effects**

Reproductive/Developmental Effects Screening Assay. Oral (rat) / No toxicity to reproduction.

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**N3D-CAST245****Data for Photoinitiator (Proprietary)****Acute toxicity****Oral:**

Practically nontoxic. (rat) LD50 > 5,000 mg/kg.

**Dermal:**

No deaths occurred. (rat) LD0 = 2,000 mg/kg.

**Inhalation:**

No deaths occurred. (rat) 7 h (saturated vapor)

**Skin Irritation:**

Not irritating. (rabbit) (4 h) (occluded exposure)

**Eye Irritation:**

Causes mild eye irritation. (rabbit)

**Skin Sensitization:**

May cause an allergic skin reaction. LLNA: Local Lymph Node Assay. (mouse) Skin allergy was observed.

**Repeated dose toxicity**

Repeated exposure oral administration to rat / No adverse systemic effects reported.

**Genotoxicity****Assessment in Vitro:**

No genetic changes were observed in laboratory tests using: animal cells, bacteria

An equivocal response has been reported in a test using: human cells

**Developmental toxicity**

Exposure during pregnancy. Oral (rat) / No birth defects were observed. (skeletal variations, at doses that produce effects in mothers)

**Data for 2-Propenoic acid, 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester (15625-89-5)****Acute toxicity****Oral:**

May be harmful if swallowed. (rat) LD50 = 3,680 mg/kg.

**Dermal:**

Practically nontoxic. (rabbit) LD50 = 5,170 mg/kg.

May be harmful in contact with skin. (rat) LD50 > 2,000 mg/kg.

**Inhalation:**

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No deaths occurred. (rat) 6 h LC0 > 0.55 mg/l. (vapor)

**Skin Irritation:**

Causes skin irritation. (rabbit) (4 h) (Repeated skin exposure)

**Eye Irritation:**

Causes serious eye irritation. (rabbit)

**Skin Sensitization:**

May cause an allergic skin reaction. Guinea pig maximization test. Skin allergy was observed. (Strong sensitizer)

Not a sensitizer. Mouse ear swelling assay. No skin allergy was observed.

**Repeated dose toxicity**

Repeated dermal administration to rabbit / affected organ(s): Skin / signs: Local irritation / No adverse systemic effects reported.

Subchronic dietary administration to rat / affected organ(s): Stomach / signs: Local irritation / No adverse systemic effects reported.

Repeated oral administration to rat / affected organ(s): Stomach / signs: Local irritation / No adverse systemic effects reported.

**Carcinogenicity**

Chronic dermal administration to mouse / affected organ(s): liver, uterus / Increase in tumor incidence was reported.

Classified by the International Agency for Research on Cancer as: Group 2B: Possibly carcinogenic to humans.

**Genotoxicity****Assessment in Vitro:**

Both positive and negative responses for genetic changes were observed in laboratory tests using: bacteria, animal cells

Genetic changes were observed in a laboratory test using: human cells

**Genotoxicity****Assessment in Vivo:**

No genetic changes were observed in a laboratory test using: mice

**Developmental toxicity**

Exposure during pregnancy. Oral (rabbit) / No birth defects were observed.

Exposure during pregnancy. Oral (rat) / No birth defects were observed. (at doses that produce effects in mothers)

**Reproductive effects**

Reproductive/Developmental Effects Screening Assay. Oral (rat) / No toxicity to reproduction.

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**Other information**

Possible cross sensitization with other acrylates and methacrylates.

**Human experience****Skin contact:**

Skin: Skin allergy was observed. Sensitization described in isolated cases. (based on reports of occupational exposure to workers)

**Data for Free Radical Initiator (Proprietary)****Acute toxicity****Oral:**

No deaths occurred. (rat) LD<sub>0</sub> = 2,000 mg/kg.

**Dermal:**

No deaths occurred. (rat) LD<sub>0</sub> = 2,000 mg/kg.

**Skin Irritation:**

Not irritating. (rabbit) (4 h)

**Eye Irritation:**

Causes mild eye irritation. (rabbit)

**Skin Sensitization:**

May cause allergic skin reaction. Guinea pig maximization test. Skin allergy was observed. (Strong sensitizer)

**Repeated dose toxicity**

Repeated oral administration to rat / No adverse systemic effects reported.

Subchronic oral administration to rat / No adverse systemic effects reported.

**Genotoxicity****Assessment in Vitro:**

No genetic changes were observed in laboratory tests using: bacteria, animal cells, human cells

**Developmental toxicity**

Exposure during pregnancy. Oral (rat) / No birth defects were observed.

**Data for Proprietary Acrylic (Proprietary)****Acute toxicity****Oral:**

No deaths occurred. (rat) LD<sub>0</sub> = 5,000 mg/kg.

**Dermal:**

No deaths occurred. (rat) LD<sub>0</sub> = 2,000 mg/kg.

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**Skin Irritation:**

Not irritating. (rabbit) (4 h)

**Eye Irritation:**

Causes mild eye irritation. (rabbit)

**Skin Sensitization:**

May cause allergic skin reaction. Guinea pig maximization test. Skin allergy was observed. (Strong sensitizer)

**Repeated dose toxicity**

Repeated oral administration to rat / affected organ(s): Stomach, liver / signs: Local irritation, changes in organ structure or function

Subchronic oral administration to rat / No adverse systemic effects reported.

**Genotoxicity****Assessment in Vitro:**

No genetic changes were observed in laboratory tests using: bacteria, animal cells, human cells

**Developmental toxicity**

Exposure during pregnancy. Oral (rat) / Toxic effects on foetal development

**Reproductive effects**

Reproductive/Developmental Effects Screening Assay. Oral (rat) / Effects on early embryonic development / (toxic effects on embryo, toxic effects also observed in the parental animals at these doses)

**Other information**

Effects due to processing releases or residual monomer:  
Possible cross sensitization with other acrylates and methacrylates.

**Human experience****Skin contact:**

Skin allergy was observed. (studied using human volunteers) (based on reports of occupational exposure to workers)

**SECTION 12: ECOLOGICAL INFORMATION****Chemical Fate and Pathway**

Data on this material and/or its components are summarized below.

**Data for Acrylate monomer (Proprietary)****Biodegradation:**

Not readily biodegradable. (28 d) biodegradation 28 %

**Octanol Water Partition Coefficient:**

log Pow: = 1.9, at 73 °F (23 °C) pH = 6

**Data for Urethane oligomer (Proprietary)**

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**Biodegradation:**

Not readily biodegradable. (28 d) biodegradation 22 %

**Octanol Water Partition Coefficient:**

log Pow: = 3.39, at 68 °F (20 °C)

**Data for Acrylate ester (Proprietary)****Biodegradation:**

Not readily biodegradable. (28 d) biodegradation 78.8 % / The 10 day time window criterion is not fulfilled.

**Octanol Water Partition Coefficient:**

log Pow: = 5, at 131 °F (55 °C) pH = 7.4

**Data for Photoinitiator (Proprietary)****Biodegradation:**

Not readily biodegradable. (28 d) biodegradation < 10 %

**Octanol Water Partition Coefficient:**

log Pow: = 2.91, at 77 °F (25 °C) pH = 4.4

**Data for 2-Propenoic acid, 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester (15625-89-5)****Biodegradation:**

Readily biodegradable. (28 d) biodegradation 86 %

**Octanol Water Partition Coefficient:**

log Pow: = 4.35, at 68 °F (20 °C) (Method: calculated)

**Ecotoxicology**

Data on this material and/or its components are summarized below.

**Data for Acrylate monomer (Proprietary)****Aquatic toxicity data:**

Toxic. Oncorhynchus mykiss (rainbow trout) 96 h LC50 = 4 mg/l

**Aquatic invertebrates:**

Harmful. Daphnia magna (Water flea) 48 h EC50 = 20 mg/l

**Algae:**

Harmful. Desmodesmus subspicatus (green algae) 72 h ErC50 = 34 mg/l

**Microorganisms:**

Respiration inhibition / Activated sludge 3 h EC50 > 1,000 mg/l

**Chronic toxicity to aquatic plants:**

Practically nontoxic. Desmodesmus subspicatus (green algae) 72 h NOEC r = 9 mg/l

**Data for Urethane oligomer (Proprietary)**

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**N3D-CAST245****Aquatic toxicity data:**

Harmful. Danio rerio (zebra fish) 96 h LC50 = 10.1 mg/l

**Aquatic invertebrates:**

No effect up to the limit of solubility. Daphnia magna (Water flea) 48 h EC50 > 1.2 mg/l

**Algae:**

No effect up to the limit of solubility. Desmodesmus subspicatus (green algae) 72 h EC50 > 0.68 mg/l

**Chronic toxicity to aquatic plants:**

Toxic. Desmodesmus subspicatus (green algae) 72 h NOEC r = 0.21 mg/l

**Data for Acrylate ester (Proprietary)****Aquatic toxicity data:**

Very toxic. Danio rerio (zebra fish) 96 h LC50 = 0.149 mg/l

**Aquatic invertebrates:**

Very toxic. Daphnia magna (Water flea) 48 h EC50 = 0.3084 mg/l

**Algae:**

Very toxic. Pseudokirchneriella subcapitata (green algae) 72 h ErC50 = 0.05 mg/l

**Microorganisms:**

Respiration inhibition / Activated sludge 28 d NOEC > 100 mg/l

**Chronic toxicity to aquatic plants:**

Very toxic. Pseudokirchneriella subcapitata (green algae) 72 h ErC10 = 0.0262 mg/l

**Data for Photoinitiator (Proprietary)****Aquatic toxicity data:**

Toxic. Danio rerio (zebra fish) 96 h LC50 = 1.89 mg/l

**Aquatic invertebrates:**

Toxic. Daphnia magna (Water flea) 48 h EC50 = 2.26 mg/l

**Algae:**

Toxic. Pseudokirchneriella subcapitata (green algae) 72 h EC50 = 1.01 mg/l

**Microorganisms:**

Respiration inhibition / Activated sludge 3 h EC20 > 1,000 mg/l

**Data for 2-Propenoic acid, 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester (15625-89-5)****Aquatic toxicity data:**

Very toxic. Danio rerio (zebra fish) 96 h LC50 = 0.87 mg/l

**Aquatic invertebrates:**

Harmful. Daphnia magna (Water flea) 48 h EC50 = 19.9 mg/l

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**Algae:**

Toxic. *Desmodesmus subspicatus* (green algae) 96 h ErC50 = 4.86 mg/l

**Microorganisms:**

Respiration inhibition / Activated sludge 30 min EC20 = 625 mg/l

**Chronic toxicity to aquatic plants:**

Practically nontoxic. *Desmodesmus subspicatus* (green algae) 72 h ErC10 = 1.9 mg/l

**SECTION 13: DISPOSAL CONSIDERATIONS****Waste disposal:**

Disposal via incineration is recommended. Dispose of in accordance with federal, state and local regulations. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

Take appropriate measures to prevent release to the environment.

**SECTION 14: TRANSPORT INFORMATION****US Department of Transportation (DOT)**

**UN Number** : 3082  
**Proper shipping name** : Environmentally hazardous substance, liquid, n.o.s.  
**Technical name** : (Acrylate monomer, Urethane oligomer)  
**Class** : 9  
**Packaging group** : III  
**Marine pollutant** : yes

**International Maritime Dangerous Goods Code (IMDG)**

**UN Number** : 3082  
**Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**Technical name** : (ACRYLATE MONOMER, URETHANE OLIGOMER)  
**Class** : 9  
**Packaging group** : III  
**Marine pollutant** : yes

**SECTION 15: REGULATORY INFORMATION****Chemical Inventory Status**

US. Toxic Substances Control Act	TSCA	The components of this product are all on the Active TSCA Inventory.
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Canadian Domestic Substances List (DSL)	DSL	This product contains one or several components that are not on the Canadian DSL nor NDSL lists.
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC (CN)	Not all components of this product are listed or exempted
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	Not all components of this product are listed or exempted
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	Not all components of this product are listed or exempted
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	Not all components of this product are listed or exempted
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	Not all components of this product are listed or exempted
Australian Inventory of Industrial Chemicals	AU AIICL	Not all components of this product are listed or exempted
Taiwan Chemical Substance Inventory (TCSI)	TCSI	Not all components of this product are listed or exempted

**United States – Federal Regulations****SARA Title III – Section 302 Extremely Hazardous Chemicals:**

The components in this product are either not SARA Section 302 regulated or regulated but present in negligible concentrations.

**SARA Title III - Section 311/312 Hazard Categories:**

Skin corrosion or irritation  
Respiratory or skin sensitisation  
Carcinogenicity  
Reproductive toxicity  
Self-reactive chemicals

**SARA Title III – Section 313 Toxic Chemicals:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantity (RQ):**

The components in this product are either not CERCLA regulated, regulated but present in negligible concentrations, or regulated with no assigned reportable quantity.

**United States – State Regulations**

SAFETY DATA SHEET



N3D-CAST245

**California Prop. 65**

WARNING! This product contains a chemical known to the State of California to cause cancer.

Chemical name

2-Propenoic acid, 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester

CAS-No.

15625-89-5

**California Prop. 65**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Chemical name

Benzene, methyl-

CAS-No.

108-88-3

Methanol

67-56-1

**SECTION 16: OTHER INFORMATION**

**Full text of H-Statements referred to under sections 2 and 3.**

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H351 Suspected of causing cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

Latest Revision(s):

Reference number:	200025374
Date of Revision:	11/09/2023
Date Printed:	11/10/2023

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## SAFETY DATA SHEET



N3XTDIMENSION®

### N3D-CAST245

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The Company adheres to a strict policy that applies to the use of any of its products in medical device applications. This policy can be found at <https://www.arkema.com/global/en/social-responsibility/innovation-and-sustainable-solutions/responsible-product-management/medical-device-policy/> which is incorporated herein by reference and made a part hereof. Except as expressly authorized, the Company (i) has designated specific medical grade compositions for products used in medical device applications and Company products not so designated are not authorized for use in medical device applications and (ii) strictly prohibits the use of any of its products in medical device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Company does not design, manufacture and/or directly sell any medical devices. The Company does not co-design, or offer assistance to any purchaser of its products, in their design, manufacture and/or sale of products for medical devices. It is the sole responsibility of the manufacturer of medical devices to determine the suitability of all raw material, products and components, including any medical grade products, in order to ensure that the medical device is safe for end-use and complies with all applicable legal and regulatory requirements and to conduct all necessary tests and inspections.

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Product code: FP21609-P

Version 1.0

Issued on: 11/09/2023

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