SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: CEL-375 Part B

Other means of identification

Recommended restrictions

Recommended use: Epoxy Curing Agent
Restrictions on use: Not determined.

Manufacturer/Importer/Distributor Information

Company Name	ICAT Industries Inc. 648 Welham Rd. Barrie Ontario Canada L4N 9A1
Telephone	+1-705-739-0445
E-mail	: info@ICATindustries.com

Emergency telephone number:

24-Hour Health : +1 (613) 996-6666 (CANUTEC 24 Hrs)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Inhalation)	Category 4
Acute toxicity (Dermal)	Category 4
Skin corrosion	Category 1B
Serious Eye Damage/Eye Irritation	Category 1
Skin sensitizer	Category 1
Germ Cell Mutagenicity	Category 2
Specific Target Organ Toxicity - Repeated Exposure	Category 2

Label Elements

Hazard Symbol:

Signal Word:	Danger
Hazard Statement:	Harmful in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure.
Precautionary Statements	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Wash hands thoroughly after handling.
Response:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER/doctor. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Storage:	Store locked up.
Disposal:	Dispose of contents/ container to an approved waste disposal plant.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)
NonylPhenol	25154-52-3	<45%
4,4' MethyleneBisCycloHexanamine	1761-71-3	<10%
Wollastanite	13983-17-0	<20%
Bentonite Clay	1302-78-9	<20%
Carbon Black	1333-86-4	<20%

4. First-aid measures

Description of necessary first-aid measures

General information:	Seek medical advice. If breathing is irregular or stopped, administer artificial respiration.
Inhalation:	Move to fresh air. If breathing is irregular or stopped, administer artificial respiration.
Skin Contact:	Wash off immediately with soap and plenty of water. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Take off contaminated clothing and shoes immediately. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.
Eye contact:	Rinse immediately with plenty of water for at least 15 minutes.
Ingestion:	Prevent aspiration of vomit. Turn victim's head to the side. Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position.
Personal Protection for First-aid Responders:	Use personal protective equipment., Wear self-contained breathing apparatus for firefighting if necessary. Avoid contact with skin., A face shield should be worn.

Most important symptoms/effects, acute and delayed

Symptoms:	Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.

5. Fire-fighting measures

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

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Carbon Dioxide. Dry chemical. Dry sand. Limestone powder Alcohol resistant foam.
Unsuitable extinguishing media:	No data available.
Specific hazards arising from the chemical:	May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Ammonia gas may be liberated at high temperatures. In case of incomplete combustion an increased formation of oxides of nitrogen (NOx) is to be expected. Downwind personnel must be evacuated. Burning produces noxious and toxic fumes.

Special protective equipment and precautions for firefighters

Special fire fighting procedures:	No data available.

Special protective equipment for fire-fighters: Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary. Avoid contact with skin. A face shield should be worn.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Evacuate personnel to safe areas. Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection.

Accidental release measures: If possible, stop flow of product. Open enclosed spaces to outside atmosphere.

Methods and material for containment and cleaning up: Place in appropriate chemical waste container. Approach suspected leak areas with caution. Call Emergency Response number for advice.

Environmental Precautions: Construct a dike to prevent spreading.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Safe handling advice: Use personal protective equipment.Wash hands at the end of each workshift and before eating, smoking or using the toilet. Remove contaminated clothing. Drench affected area with water for at least 15 minutes.Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid breathing vapors and/or aerosols. Avoid contact with eyes. Use only in well-ventilated areas.

Contact avoidance measures: No data available.

Hygiene measures: Provide readily accessible eye wash stations and safety showers.

Storage

Safe storage conditions: Do not store in reactive metal containers.Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values		Source
Nonylphenol	TWA	5 ppm		US. ACGIH Threshold Limit Values (03 2016)
	REL	5 ppm	19 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	Ceil_Time	15.6 ppm	60 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	5 ppm	19 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
	IDLH	250 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
	TWA	5 ppm	19 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	5 ppm	19 mg/m3	US. Tennessee. OELs. Occupational Exposure

			Limits, Table Z1A (06 2008)
	ST ESL	150 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (06 2018)
	AN ESL	3.3 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	0.86 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL	39 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (06 2018)
	TWA PEL	5 ppm 19 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
4,4' MethyleneBisCycloHexana	Ceiling	0.1 mg/m3	US. ACGIH Threshold Limit Values (03 2016)
mine	Ceil_Time	0.1 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2016)
	Ceiling	0.1 mg/m3	US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values (03 2018)
	Ceiling	0.1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	0.1 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL	0.1 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL	1 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	Ceiling	0.1 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)

Exposure guidelines

Nonylphenol	US. ACGIH Threshold Limit Values	Can be absorbed through the skin.
4,4' MethyleneBisCycloHexanamine	US. ACGIH Threshold Limit Values	Can be absorbed through the skin.

Appropriate Engineering Controls Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection: Chemical resistant goggles must be worn.

Skin Protection

Hand Protection: Additional Information: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.Additional Information: Neoprene gloves, PVC disposable gloves, Nitrile rubber., Butyl rubber., Impervious gloves

Skin and Body Protection: No specific recommendations. Long sleeve shirts and trousers without cuffs. Impervious clothing

Respiratory Protection: Not required for properly ventilated areas. Wear appropriate respirator when ventilation is inadequate.

Hygiene measures: Provide readily accessible eye wash stations and safety showers.

9. Physical and chemical properties

Appearance

Physical state:	Paste
Form:	Viscous
Color:	Black
Odor:	phenol-like
Odor Threshold:	No data available.
pH:	10 alkalines
Freezing point:	No data available.
Boiling Point:	> 235 °C
Flash Point:	110 °C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	< 27.5097 hPa (21 °C)
Vapor density (air=1):	No data available.
Density:	1.11 g/cm3 (21 °C)
Relative density:	(water = 1) 1.11
Solubility(ies)	
Solubility in Water:	< 0.1 g/l
Solubility (other):	Solubility in n-Octanol: Completely Soluble
Partition coefficient (n-octanol/water):	No data available.
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	No data available.
Dynamic viscosity:	No data available.
Other information	
Explosive properties:	No data available.
Oxidizing properties:	No data available.

10. Stability and reactivity

Reactivity:	see section "Possibility of hazardous reactions"
Chemical Stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No data available.
Incompatible Materials:	Sodium hypochlorite. Organic acids (i.e. acetic acid, citric acid etc.). Mineral Acid Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds. Oxidizing agents.
Hazardous Decomposition Products:	In case of fire hazardous decomposition products may be produced such as: Carbon Monoxide. Carbon Dioxide. Nitrogen Oxides Nitrogen oxide can react with water vapors to form corrosive nitric acid. Ammonia Aldehydes. Flammable hydrocarbon fragments.

11. Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral
Product: LD 50 (Rat): > 2,200 mg/kg

Dermal
Product: LD 50 (Rabbit): > 1,000 mg/kg

Inhalation
Product: Vapour
LC 50 (Rat): > 20 mg/l

Repeated dose toxicity
Product: No data available.

Skin Corrosion/Irritation
Product: No data available.

Components:

NonylPhenol	Corrosive , > 3.01 min - < 1 h Corrosive
4,4' MethyleneBisCycloHexanamine	OECD Test Guideline 404 (Rabbit): Corrosive , > 3.01 min - < 1 h Corrosive

Serious Eye Damage/Eye Irritation
Product: Severe eye irritation

Respiratory or Skin Sensitization
Product: No data available.

Carcinogenicity
Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro
Product: No data available.

In vivo
Product: No data available.

Reproductive toxicity
Product: No data is available on the product itself.

Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Aspiration Hazard
Product: No data available.

Other effects: Absorption of phenolic solutions through the skin may be very rapid and can cause damage to the kidneys, liver, pancreas and spleen, and edema of the lungs.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: LC 50 (Oncorhynchus mykiss (rainbow trout), 96 h): > 100 mg/l

Aquatic Invertebrates
Product: No data available.

Chronic hazards to the aquatic environment:

Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation
Product: No data available.

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential
Bioconcentration Factor (BCF)
Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product: Log Kow: No data available.

Mobility in soil: No data available.

Components:

Nonylphenol	No data available.
4,4' MethyleneBisCycloHexanamine	No data available.

Other adverse effects: Do not allow to enter soil, waterways or waste water canal.

13. Disposal considerations

Disposal methods: Contact supplier if guidance is required.

Contaminated Packaging: Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. Transport information

Domestic regulation

49 CFR

UN/ID/NA number	:	UN 3259
Proper shipping name	:	Amines, solid, corrosive, n.o.s. (Benzene-1,3-dimethaneamine (MXDA))
Class	:	8
Packing group	:	II
Labels	:	8
ERG Code	:	153
Marine pollutant	:	no
Remarks	:	Keep separate from foodstuffs, luxury foods, feedstuffs

International Regulations

IATA-DGR

UN/ID No.	:	UN 3259
Proper shipping name	:	Amines, solid, corrosive, n.o.s. (Benzene-1,3-dimethaneamine (MXDA))
Class	:	8
Packing group	:	II
Labels	:	8
Packing instruction (cargo aircraft)	:	855
Packing instruction (passenger aircraft)	:	851

IMDG-Code

UN number	:	UN 3259
Proper shipping name	:	AMINES, SOLID, CORROSIVE, N.O.S. (Benzene-1,3-dimethaneamine (MXDA))
Class	:	8
Packing group	:	II
Labels	:	8
EmS Code	:	F-A, S-B
Marine pollutant	:	no
Remarks	:	Keep separate from acids.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Nonylphenol	1000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute toxicity (any route of exposure), Skin Corrosion or Irritation, Serious eye damage or eye irritation, Respiratory or Skin Sensitization, Germ Cell Mutagenicity, Specific target organ toxicity (single or repeated exposure)

SARA 302 Extremely Hazardous Substance

Chemical Identity	Reportable quantity	Threshold Planning Quantity
Nonylphenol	1000 lbs.	- -- -

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Nonylphenol	500 lbs

SARA 313 (TRI Reporting)

Chemical Identity	Reporting threshold for other users
Nonylphenol	Otherwise used (non-manufacturing/processing)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical Identity	Reportable quantity
Nonylphenol	Reportable quantity: 1000 lbs.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity
Nonylphenol
4,4' MethyleneBisCycloHexanamine

US. Massachusetts RTK - Substance List

Chemical Identity
Nonylphenol
4,4' MethyleneBisCycloHexanamine

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity
Nonylphenol
4,4' MethyleneBisCycloHexanamine

US. Rhode Island RTK

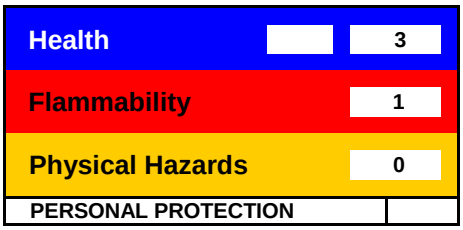
Chemical Identity
Nonylphenol
4,4' MethyleneBisCycloHexanamine

Inventory Status:

US TSCA Inventory:	Included on Inventory.
EU EINECS List:	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada DSL Inventory List:	Included on Inventory.
Australia AICS:	Included on Inventory.
Japan (ENCS) List:	Included on Inventory.
Korea Existing Chemicals Inv. (KECI):	Included on Inventory.
China Inv. Existing Chemical Substances:	Included on Inventory.
Philippines PICCS:	Included on Inventory.

16.Other information, including date of preparation or last revision

HMIS Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date: 22/10/2021

Version #: 3

Further Information: No data available.

Revision Information: Revised to conform to the current standard. This version replaces all previous versions.